

www.serverscheck.com

# ServersCheck Monitoring Software And Monitoring Appliance User Manual

#### Copyright:

Copyright © 2023 InfraSensing BV All rights reserved. Reproduction without permission is prohibited.

#### Software:

The software described in this manual is furnished under a license agreement and may be used only in accordance with the terms of that agreement.

#### **Trademarks:**

ServersCheck is a trademark of InfraSensing . All other trademarks or registered marks in this manual belong to their respective manufacturers.

#### **Disclaimer:**

Information in this document is subject to change without notice and does not represent a commitment on the part of InfraSensing.

InfraSensing provides this document "as is," without warranty of any kind, either expressed or implied, including, but not limited to, its particular purpose. InfraSensing reserves the right to make improvements and/or changes to this manual, or to the products and/or the programs described in this manual, at any time.

InfraSensing has made this document to the best of its abilities. However InfraSensing assumes no responsibility for its use, or for any infringements on the rights of third parties that may result from its use.

This product might include unintentional technical or typographical errors. Changes are periodically made to the information herein to correct such errors, and these changes are incorporated into new editions of the publication.

#### Warranty:

For the warranty on this product please visit https:// InfraSensing.com/ OPENING SENSORGATEWAY OR EXTERNAL SENSOR PROBE VOIDS THE WARRANTY

### **Table of Content**

6	Introduction	<b>1</b> .
6	. ServersCheck Monitoring Software	1.1.
6	2. What's New on version 14+	1.2.
7	8. ServersCheck Monitoring Appliance	1.3.
7	l. Overview of the Appliance	1.4.
7	5. Technical Specifications	1.5.
8	b. Image and Parts of the Appliance	1.6.
8	7. Powering the Appliance	1.7.
9	8. Other Pre-installed software	1.8.
9	<ol> <li>Installation Requirements of The Monitoring Software</li> </ol>	1.9.
10	Getting Started	2.
	. Installing the Software on Windows	2.1.
	2. Things to Check before Accessing the Software	2.2.
	<ol> <li>Upgrading the Monitoring Software</li> </ol>	2.3.
	Accessing the Monitoring Software	2.4.
	. Default View for your Monitoring checks	2.5.
	Choosing the Network adapter to use	2.6.
22	/ Setting un Email Alerts	27
	2.7.1. Using The Built-In Mail Server	2.7.
	2.7.2. Using Your ISP's Mail Server or Open SMTP Server	
	2.7.3. Using SMTP Server	
	2.7.4. Using IMAP Server	
	2.7.5. Using GMAIL	
	B. Configuring SMS	2.8.
	P. Setting Slack Alerts	2.9.
	.0. Setting up Username and Password	2.10.
	1. Activating the License of your Software	2.11.
46	Setting up Your First Checks	3.
rial) & Controls46	. Adding ServersCheck Sensors (Environment, Power, Security, Industrial)	3.1.
	2. Editing a Sensor/Check	3.2.
	-	

3.3.	Editi	ng a Device and Adding Location	
3.4.	Addi	ng a Floor Plan	
3.5.	Addi	ng a Thermal Image	64
3.6.	Cont	rolling Outputs and Relays	
4.	Setti	ng up Other Check Types	67
4.1.	Addi	ng Checks for 3rd Party Sensors (SNMP)	67
42	ibbA	ng Checks for Network Connections	69
1.2.	42.1	Adding Ping Check	
	4.2.2.	Adding Internet Speed test Check	
	4.2.3.	Adding Domain Name Resolution Check	
	4.2.4.	Adding Domain Name Expiry Check	75
	4.2.5.	Adding TCP Port Check	
4.3.	Addi	ng Checks for Network Devices (Routers, Switches, Printers)	
	4.3.1.	Adding Network Devices via Ping Check	
	4.3.2.	Adding Network Devices via TCP Port Check	
	4.3.3.	Adding Network Devices via SNMP Check	
4.4.	Addi	ng Checks for Servers (Windows & Linux)	
	4.4.1.	Adding Checks for Windows Servers	
	4.4.2.	Adding Checks for Linux Servers	
	4.4.3.	Adding Checks for System Uptime (SNMP)	
	4.4.4.	Adding Checks for SNMP Numeric	
4.5.	Addi	ng Checks for Websites	
	4.5.1.	Adding SSL Certificate Validity Check	
	4.5.2.	Adding HTTP Status Code Check	
	4.5.3.	Adding HTTP Header Check	
	4.5.4.	Adding URL Contains Check	
	4.5.5.	Adding URL Contains Check	103
5.	Gene	erating Reports	105
5.1.	Gene	erating By Sensor Names	105
5.2.	Gene	erating By Sensor Types	108
6.	Alert	s History	111
7.	Addi	ng Security to your Monitoring Software	112
7.1.	NGI	NX (reverse proxy server)	116
	7.1.1.	Configuring NGINX.	

7.2. Running the software on HTTPS mode	
8. Running on Debug Mode	117
8.1. Steps to run in Debug Mode	
9. Support Forum	118

### 1. Introduction

### 1.1. ServersCheck Monitoring Software

The ServersCheck software is a browser-based tool for monitoring, reporting and alerting on system availability.

It enables you to:

- Monitor Infrastructure Sensors monitor our very own set of sensors <u>https://ServersCheck.com/sensors/</u> and any other 3rd party sensors.
- Network Monitoring perform monitoring checks of your own network and also your ISP network.
   <u>https://ServersCheck.com/monitoring-software/network-monitoring.asp</u>
- Systems and Server Monitoring able to monitor infrastructure and network layers in a server room. And also the systems running in your data center environment: physical, virtual or cloud based <a href="https://ServersCheck.com/monitoring-software/server-monitoring.asp">https://ServersCheck.com/monitoring-software/server-monitoring.asp</a>
- Web Applications Monitoring ability to monitor the availability and performance of applications running on your environment. <u>https://ServersCheck.com/monitoring-software/application-monitoring.asp</u>

### 1.2. What's New on version 14+

This is the new version of the ServerCheck Monitoring Software.

- Responsive interface working on any platform: desktop, smart phone or tablet.
- Complete redesign of the software's back-end engine for performance.
- New graphing engine (client based)
- HTML5 powered
- Support for all sensors
- Control capabilities (for IO controls on Sensorhub)
- Desktop notifications via Chrome and Firefox including badge notifications
- Thermal and humidity heat maps redesigned
- Leak maps showing location of water leaks
- Support for 3rd party SNMP sensors

1.3. ServersCheck Monitoring Touch Appliance



### 1.4. Overview of the Appliance

The Appliance is a small IOT device with the award winning ServersCheck Monitoring software preloaded and optimized. This award winning software and appliance enables you to centrally monitor, report and alert on your ServersCheck sensors and additional checks. With its innovative design, you can also monitor 3rd party sensors, your network and servers.

### 1.5. Technical Specifications

- Operating System: Windows 10 Enterprise IoT
- Processor (CPU) : Intel® Pentium® Gold Processor 4425Y / Intel Core M with the optional MON-TOUCH2-LTE
- Memory (RAM): 4 GB DDR3L / 8GB with the optional MON-TOUCH2-LTE
- GPU : Intel® UHD Graphics 615
- Default Storage : 64 GB / 128 GB with the optional MON-TOUCH2-LTE (can be expanded up to 1TB via SD card)
- Network : Wifi 2.4 and 5 Ghz
- Software : ServersCheck Monitoring Software

### 1.6. Image and Parts of the Appliance







### 1.7. Powering the Appliance

- 1. Connect the following for the initial setup:
  - a. USB keyboard and mouse to any of the USB ports
  - b. HDMI cable for monitor capability
  - c. Using a Micro USB adapter, power the device on (you should see a red light)

2. Press and hold the power button for 10-15 seconds or until the initial image is shown on your screen.

3. Log in using the password "admin" (all in lower-case) under the username ServersCheck.

**Note:** Any standard USB adapter (such as a cell phone wall charger) with **at least 2A of current** can be used as a power supply. A standard PoE connection can be used as well.

#### 1.8. Other Pre-installed software

In addition to the Monitoring Software, the ff. comes pre-configured on the device:

- Device drivers for Display, Network Adapter, sound, USB, Wifi and Bluetooth
- Optimized Operating System with additional software as needed by ServersCheck

The appliance firewall and network configuration are already optimized to work with the ServersCheck Monitoring Software.

The appliance is made out of the box and start adding checks on your monitoring platform simply by knowing the IP address assigned to your Appliance. (See Section 2.3)

### **1.9. Installation Requirements of The Monitoring Software**

**Minimum System Requirements:** 

\* Processor: Intel Cherry Trail Z8300 Quad Core 1.8GHz
\* Operating System: Pre-installed full edition of Windows 10
\* RAM: 2GB DDR3L
\* Storage Capability: 32GB
\* GPU: Intel HD Graphics, 12 EUs @200-500 Mhz, single-channel memory
\* Windows 7, 8, 10 - Windows Server 2008, 2012 and 2016 (32 bit)
\* Browser: Internet Explorer 10+, Firefox 4+ (Recommended),
 Safari 6+, Google Chrome 32.0.1700+
\* A TCP/IP protocol stack.

Windows System Requirements:

```
* PORT 1272 -- ServersCheck operates by using port 1272. You must ensure that there is no proxy client, such as ISA, running that could prevent Serv ersCheck from starting its internal webserver.
* SMS Alerting -- In order to receive alerts through SMS we recommend fo r you to Purchase Premium Credits.
* Requires Administrative privilege on the computer
* with software version 15 and above you can also access the software on port 80 by default
```

### 2. Getting Started

#### 2.1. Installing the Software on Windows

1. Double click the installation file (setup.exe) to start the installation program. Make sure to be logged in as an Administrator on the system on which you will install the software.

- 2. Follow the on-screen instructions.
- 3. You will be prompted to accept the terms of the license agreement before you

15	Setup - ServersCheck Monitoring Software 🛛 – 🗖 🛛 🗙
	License Agreement Please read the following important information before continuing.
	Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
	This document is a legal agreement between you (either an individual or a single entity), the "END USER," and ServersCheck BVBA, the "AUTHOR". By installing, copying or otherwise using the enclosed SOFTWARE you agree to be bound by the terms of this license agreement. As used in this License agreement, the term "SOFTWARE" means the SOFTWARE included on the CD, disk media, or otherwise electronically supplied SOFTWARE provided with this License Agreement. The term "SOFTWARE" does not include any SOFTWARE that is covered by a separate license offered or granted by a person other than the AUTHOR. This SOFTWARE product is licensed not sold.
	This license agreement applies to versions 14.0.1 or higher of the SOFTWARE
	○ I accept the agreement
	● I do not accept the agreement
	Next > Cancel

4. Next is to specify the target directory to which the application needs to be installed.

🚯 Setup - ServersCheck Monitoring Software 🗧 🗆	x
Select Destination Location Where should ServersCheck Monitoring Software be installed?	
Setup will install ServersCheck Monitoring Software into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\Program Files (x86)\ServersCheck_Monitoring Browse	
At least 45.3 MB of free disk space is required.	
< <u>B</u> ack <u>N</u> ext > Cancel	

5. Start menu items are created on this step. Most users will not need to change this.

B	Setup - ServersCheck Monitoring Software 🛛 – 🗖 🗙
Select St Where	should Setup place the program's shortcuts?
<b>∑</b>	Setup will create the program's shortcuts in the following Start Menu folder.
To con	tinue, click Next. If you would like to select a different folder, click Browse.
Server	rsCheck\Monitoring Browse
	< Back Next > Cancel

6. Additional options can be configured in this step.

13	Setup - ServersCheck Monitoring Software	-	□ ×
	Select Additional Tasks Which additional tasks should be performed?		Ð
	Select the additional tasks you would like Setup to perform while installing ServersCheck Monitoring Software, then click Next. Additional icons: Create a desktop icon Create a Quick Launch icon		
	< <u>B</u> ack <u>N</u> ext >		Cancel

7. An installation summary is then displayed before installation begins.

6	Setup - ServersCheck Monitoring Software -	×
	Ready to Install Setup is now ready to begin installing ServersCheck Monitoring Software on your computer.	Ð
	Click Install to continue with the installation, or click Back if you want to review or change any settings.	
	Destination location: C:\Program Files (x86)\ServersCheck_Monitoring Start Menu folder: ServersCheck\Monitoring	^
	Additional tasks: Additional icons: Create a desktop icon	
	< >	×
	< <u>B</u> ack Install	Cancel

8. The Files are then copied to the specified target directory and the ServersCheck service will automatically be installed as a service.

6	Setup - ServersCheck Monitoring Software	•	×
	Installing Please wait while Setup installs ServersCheck Monitoring Software on your computer.		e
	Extracting files C:\Program Files (x86)\ServersCheck_Monitoring\static\css\metisMenu.min.cs	3	
		Can	cel .

9. Installation is completed and the Monitoring Software is ready for use.

13	Setup - ServersCheck Monitoring Software 🗧 🗖 🔀
	Completing the ServersCheck Monitoring Software Setup Wizard           Setup has finished installing ServersCheck Monitoring Software on your computer. The application may be launched by selecting the installed shortcuts.           Click Finish to exit Setup.
	Finish

### 2.2. Things to Check before Accessing the Software

Make sure that the ServersCheck Web Server is allowed on your Windows Firewall.

1. Access Control Panel - All Control Panel Items - Windows Firewall

Control Panel Home	Help protect your PC with Windo	Help protect your PC with Windows Firewall			
Allow an app or feature through Windows Firewall	Windows Firewall can help prevent hackers Internet or a network.	s or malicious software from gaining access to your PC through the			
🛞 Change notification settings	🛛 🧭 Private networks	Not connected 🕑			
Turn Windows Firewall on or off	Guest or public network	s Connected 🔿			
🚱 Restore defaults	Naturala in public plana such as simul	Networks in public places such as airports or coffee shops			
😌 Advanced settings	Networks in public places such as airports				
Troubleshoot my network	Windows Firewall state:	On			
	Incoming connections:	Block all connections to apps that are not on the list of allowed apps			
	Active public networks:	PLDTHOMEDSLLINEARLINK			
	Notification state:	Notify me when Windows Firewall blocks a new app			

2. Click Allow an app or feature through Windows Firewall on the left hand side and see if ServersCheck Web Server is allowed. If it is not allowed, proceed to Number 3.

at are the risks of allowing an app to communicate?	😚 Cha	inge settir	ngs
llowed apps and features:			
Name	Private	Public	1
Samsung Universal Print Driver 2 Installer	$\checkmark$		
Samsung Universal Print Driver 2 Installer		✓	
Secure Socket Tunneling Protocol			
Secure World Wide Web Services (HTTPS)			
ServersCheck Web Server			
🗹 Skype	$\checkmark$	✓	
🗹 Skype	$\checkmark$	✓	J.
SNMP Trap			T
SOLIDWORKS Distributed Task Scheduler		✓	
SOLIDWORKS Electrical 2017 SP0		✓	
✓ SolidWorks PhotoView 360		✓	
SOLIDWORKS Visualize Boost 8990		✓	•
	Details	Remov	/e

3. Click Change Settings, then Allow another app...

hat are the risks of allowing an app to communicate?	😗 Cha	<u>nge settir</u>	ngs
Allowed apps and features:			
Name	Private	Public	^
Samsung Universal Print Driver 2 Installer			
Samsung Universal Print Driver 2 Installer		✓	
Secure Socket Tunneling Protocol			
Secure World Wide Web Services (HTTPS)			
✓ Skype	$\checkmark$	$\checkmark$	
✓ Skype	$\checkmark$	✓	
SNMP Trap			i.
SOLIDWORKS Distributed Task Scheduler		✓	1
SOLIDWORKS Electrical 2017 SP0		✓	
✓ SolidWorks PhotoView 360		✓	
SOLIDWORKS Visualize Boost 8990		✓	
SOLIDWORKS Visualize Boost 8991		✓	4
	Details	Remov	e

4. Browse through the folders where you saved the software. And select **s**-**server.exe** from the list and add it up. And click OK.

o add, change, o /hat are the risks	remove allowed apps and ports, click Change settings. of allowing an app to communicate?	🛞 Cha <u>n</u> ge settings
Allowed apps a	Add an app	×
Name Samsung L Samsung L Secure Soc Secure Wo Skype Skype Skype SNMP Trap SOLIDWOF SOLIDWOF SOLIDWOF SOLIDWOF SOLIDWOF	Select the app you want to add, or click Browse to find one that is not listed, and then click OK. Apps: ServersCheck Web Server	Public  Public
	Path:       C:\Program Files (x86)\ServersCheck_Monitor       Browse.         What are the risks of unblocking an app?         You can choose which network types to add this app to.         Network types       Add       Cancel	Remove

### 2.3. Upgrading the Monitoring Software

When a new version is available we advise to always upgrade your software and below are the instructions how.

First is to click on the start menu and look for the ServersCheck folder, click on the dropdown menu and choose Upgrade ServersCheck



ServersCheck Monitoring So	oftware Update	$\times$
<b>t</b>	Welcome to the ServersCheck Monitoring Software updater. This program will connect to the Internet to find out if a new version of ServersCheck Monitoring Software is available. Please make sure that you are connected to the Internet and then click Next to continue.	
	<u>N</u> ext > <u>C</u> ancel	

Proceed by clicking next until the installation finishes

O Upgrade Available	Х
<b>Update Available</b> Click Next to update ServersCheck Monitoring Software.	TrueUpdate
There is a newer version of the ServersCheck Monitoring Software available th installed on your system.	an the one currently
It is >30MB in size.	
Click Next to proceed with the upgrade or Cancel to quit.	
Next >	Cancel

If you have the free version or the licensed one, you need to click on YES when a pop up box appears.

	×
latest release re.	e of the
LE FOR THIS	VERSION
ient and do j ss?	you want to
Yes	No
	×
	<b>True</b> Update
	<u>C</u> ancel
	Cancel
	<u>C</u> ancel
	<u>C</u> ancel ×
	<u>Cancel</u> ×
	<u>C</u> ancel × TrueUpdate
	<u>C</u> ancel × TrueUpdate
:d.	<u>C</u> ancel ×
	<u>Cancel</u> ×
	<u>Cancel</u> ×
.d.	<u>Cancel</u> × TrueUpdate
.d.	<u>Cancel</u> × TrueUpdate
	latest release re. ILE FOR THIS hent and do iss? Yes

### 2.4. Accessing the Monitoring Software

To connect, open up a web browser on the computer where you installed the software. Type in the URL <u>http://localhost:1272</u> as the software runs on port 1272.

\* You may logon locally to the server using the pre-installed web browser. By default it will open the url <u>http://localhost:1272</u>. When the webserver is accessed locally, then no credentials are required.

\* You can also access the monitoring software through your network by typing in the IP address of the computer/appliance and add :1272. Example: http://192.168.1.1:1272.

With software version 15+ you may access the webserver via <u>http://localhost</u> as by default, port 80 is now supported, additional configuration is needed should you want to access the webserver via https, which will be explained on section 6

You will be prompted with a username and password once you made a connection.

Default Username : admin Default Password : admin

This image below shows the dashboard upon installing the software. This is the default screen of the software.



- A. Menu options shows you the set of options to configure the software.
- B. Sensors Grouped by Devices gives you option to group sensors by devices, e.g. Sensorgateway, Ping, DNS, etc.
- C. Sensors Grouped by Groups gives you option to group sensors by groups.

**D.** Sensors Grouped by Location - gives you option to group sensors by location on certain address around the world you set for the particular device. If you do have multiple addresses or locations to monitor.

**E.** License - Freeware versions are free for personal and private use only. For profit and government organization, you need to purchase a license. Clicking would be forwarded to <u>https://store.ServersCheck.com/</u> should you need to purchase a license.

F. Devices with OK status - lists all sensors that are monitoring fine.

**G.** Devices with Warning status - lists all sensors that has a warning status based on the threshold you set.

H. Devices with Down status - lists all sensors that has a down status based on the thresholds you set.

I. Alerts - shows the alerts history of all the checks you are monitoring.

J. IO Controls - shows a list of Sensorgateway devices that has the IO controls and to manually override Input/Outputs.

K. Email Alerts - For initial installation, you can immediately setup email alerts on the software.

L. Sensors Field - shows the lists of sensors/devices including their current values and status.

#### 2.5. Default View for your Monitoring checks

Click Settings and then Default View



You can then have the option to set the default view on the home page of your monitoring software.

Back

### 2.6. Choosing the Network adapter to use

Under settings click on Network to Use

Ð							
🕇 / Settings							
-; <u> </u> -	Slack Alerts 29/29		Email Alerts 0/29	SMS	SMS Alerts 0/29		
Update	٥	Update	٥	Update	٥		
2	Username / Pass Change	2	Software License Covid-19	0	Default View GROUP	$\widehat{\mathbf{\cdot}}$	Network to Use
Default password still active	٥	Update	٥	Update	ø	Configure	Ð
ß	EST (Covid-19) Kits						
Configure	Ð						
Support Forum	٥						

f Settings / Network Use       Settings - Network Use       Settings - Network Adapter to use     Intel(F) WI-FI 6 AX200 160MHz     Intel(F) WI-FI 6 AX20		
Settings - Network Adapter to use         Ihis option enables you to run the monitoring and alerting processes on specific network adapters. For example you can configure it to run all alerting through your LTE connection and the monitoring hrough your Ethernet connection. This allows you to receive alerts even when your power or office internet connection is down.         For the monitoring, the system is configured to use this adapter: Intel(R) WI-FI 6 AX200 160MHz         the alerting is configured to use this adapter: a per Windows priority.         Monitoring - Network adapter to use         Intel(R) WI-FI 6 AX200 160MHz         Areting - Network adapter to use         Intel(R) WI-FI 6 AX200 160MHz         Ary adapter         Save Settings	A / Settings / Network Use	
his option enables you to run the monitoring and alerting processes on specific network adapters. For example you can configure it to run all alerting through your LTE connection and the monitoring mough your Ethernet connection. This allows you to receive alerts even when your power or office internet connection is down. or the monitoring, the system is configured to use this adapter: Intel(R) WI-FI 6 AX200 160MHz te alerting is configured to use any available network adapter as per Windows priority.  Monitoring - Network adapter to use Intel(R) WI-FI 6 AX200 160MHz  Airy adapter Save Settings Back	ettings - Network Adapter to use	
br the monitoring, the system is configured to use this adapter: Intel(R) WI-FI 6 AX200 160MHz  Monitoring - Network adapter to use Intel(R) WI-FI 6 AX200 160MHz  Alerting - Network adapter to use  Save Settings Back	soption enables you to run the monitoring and alerting processes on specific network adapters. For example you can configure it to run all alerting through your LTE connection and the monitoring ough your Ethernet connection. This allows you to receive alerts even when your power or office internet connection is down.	
Monitoring - Network adapter to use Intel(F) WI-F1 6 AX200 160/MHz Aferting - Network adapter to use Any adapter Save Settings Back	: the monitoring, the system is configured to use this adapter: Intel(R) WI-FI 6 AX200 160MHz a alertino is configured to use any available network adapter as ner Windows micrity.	
Monitoring - Network adapter to use Intel(R) WI-Fi 6 AX200 160MHz  Alerting - Network adapter to use Any adapter  Save Settings Back		
Intel(R) WI-Fi 6 AX200 160MHz     •       Alerting - Network adapter to use     •       Arry adapter     •       Save Settings     Back	Vonitoring - Network adapter to use	_
Alerting - Network adapter to use Any adapter Seve Settings Back	Intel(R) Wi-Fi 6 AX200 160MHz	-
Any adapter  Save Settings Back	Alerting - Network adapter to use	
Save Settings Back	Any adapter	•
Save Settings Back		
	Save Settings	

This option enables you to run the monitoring and alerting processes on specific network adapters. For example you can configure it to run all alerting through your LTE connection and the monitoring through your Ethernet connection. This allows you to receive alerts even when your power or office internet connection is down.

### 2.7. Setting up Email Alerts

ServersCheck Monitoring Software has the capability to escalate an alert based on user driven configurations.

Note: If you are running an anti-virus software in your computer, make sure that you allow the s-alerts.exe to send out emails as AV software may block it. s-alerts.exe is located in the folder where your monitoring software is installed.

There are 2 ways to setup email from the Monitoring Software:

1. From the main Dashboard screen, click **Email Alerts** as shown in the image below.

<b>e</b>					
Freeware version. Free	for personal, private us	e only. Use by a f	for-profit or government organizati	ion requires a paid licer	ise.
Sensors Groupe	d by Type / by Devices	/ by Location			
		<b>2</b> ок	A	0 warning	•
View Details		0	View Details	Ð	Vie
You have not setup y	et your <mark>email alert</mark> s.				
OK o	FAIL OK 94	G(1) 4 ●	94 94		

2. Or access Menu - Settings - Email Alerts

Ð

Dashboard							
a Sensors	_			_			
Reports	Slack Alerts 28/29	$\checkmark$	Email Alerts 0/29	SMS	SMS Alerts 0/29		
* Settings	<b>O</b> U	Jpdate	Ð	Not Yet Configured	Ð		
Add New Sensor	Username / Pass Change	2	Software License	0		$\widehat{\mathbf{r}}$	Network to U Custon
	<b>O</b> U	Jpdate	٥	Update	٥	Configure	(
-i:-	Slack 28/	k Alerts /29		Email Alerts 0/29	SMS		SMS Alerts 0/29
Update	Slack 28/	k Alerts /29 I	Update	Email Alerts 0/29 ⊙	SMS Not Yet Config	lured	SMS Alerts 0/29
Update	stack 28/ Username Char	k Alerts /29 ©/Pass nge	Update	Email Alerts 0/29 © Software License Covid-19	Not Yet Config	lured	SMS Alerts 0/29 © Default View GROUP
Update	Stack 28/ Username Char	k Alerts /29 e) / Pass nge	Update	Email Alerts 0/29 © Software License Covid-19	Not Yet Config Update	ured	SMS Alerts 0/29 © Default View GROUP

ServersCheck Monitoring Software has several ways of sending emails from different server options:

- Built-in Mail Server
- Your ISP's Mail Server or Open SMTP Server
- SMTP Mail Server
- IMAP Mail Server
- Gmail

After configuring your email settings you have the option to apply the alert to all your sensors



#### 2.7.1. Using The Built-In Mail Server

This uses ServersCheck's free mail server to send out alerts.

1. Select Built-In Mail Server.

↑ Settings / Email Alerts
The email settings have been saved.
Settings - Email Alerts
Octungs - Email Alerts
The settings below will be used for email alerting.
Running Anti-Virus software? Make sure that you allow the s-alerts.exe to send out emails as AV software may block it.
Mail Contor
Mail Server
Built-In
From Email Address
Send Email Alert by default to
-
Save Settings Send Test Email Back

**From Email Address** - This is the email address used to send the alert emails from. **Send Email Alert by default to** - email of the recipient.

2. Sending a Test Email.

A / Settings / Email Alerts
Settings - Email Alerts The settings below will be used for email alerting.
Running Anti-Virus software? Make sure that you allow the s-alerts.exe to send out emails as AV software may block it.
Mail Server
😆 Built-In
From Email Address
Send Email Alert by default to
Save Settings Send Test Email Back

Type in an email address to which you want to send the test email.

	Send a test email alert	×	
	Type in an email address		
		Send Test Email	ł
h			d

#### 2.7.2. Using Your ISP's Mail Server or Open SMTP Server

Here uses an open SMTP server or ISP Mail server that doesn't require authentication.

1. Select ISP Mail Server or Open SMTP Server.

Collins / Dellars / Devel Alada
T / Settings / Email Alerts
Settings - Email Alerts The settings below will be used for email alerting.
Running Anti-Virus software? Make sure that you allow the s-alerts exe to send out emails as AV software may block it.
Mail Server
ISP ISP
From Email Address
SMTP Server
Server Port
25
Send Email Alert by default to
Use a comma when entering multiple email addresses. No spaces are allowed
Save Settings Send Test Email Back

From Email Address - This is the email address used to send the alert emails from.

**SMTP Server** - Input the IP address or the Domain name of the SMTP Server.

Server Port - Port number of your SMTP Server.

Send Email Alert by default to - Email address to where the email will be sent.

#### 2.7.3. Using SMTP Server

This option uses a specific SMTP Server that requires standard username and password for authentication.

1. Select SMTP Mail Server.

Settings - Email Alerts
The settings below will be used for email alerting.
Running Anti-Virus software? Make sure that you allow the s-alerts.exe to send out emails as AV software may block it.
Mail Server
SMTP
From Email Address
SMTP Server
Server Port
25
User Name
Password
Uses TLS
OFF
Send Email Alert by default to
Save Settings Send Test Email Back

From Email Address - This is the email address used to send the alert emails from.

**SMTP Server** - Input the IP address or the Domain name of the SMTP Server. **Server Port** - Port number of your SMTP Server.

**Username** - The username of the email account you want to send from. **Password** - The password of the email account you want to send from.

Uses TLS - can be turned on/off.

Send Email Alert by default to - Email address to where the email will be sent.

#### 2.7.4. Using IMAP Server

IMAP stands for Internet Messaging Access Protocol, is an internet standard protocol used by email clients to retrieve email messages from a mail server over TCP/IP.

1. Select IMAP Mail Server

#### Settings - Email Alerts

The settings below will be used for email alerting.

Running Anti-Virus software? Make sure that you allow the s-alerts.exe to send out emails as AV software may block it.

Mail Server
IMAP
From Email Address
IMAP Server
IMAP Port
25
User Name
Password
Uses TLS
OFF
Send Email Alert by default to
Save Settings Send Test Email Back

From Email Address - This is the email address used to send the alert emails from.

IMAP Server - IP address or Domain name of your IMAP Server.

IMAP Port - Port number of the IMAP. Typically uses port 143.

Username - The username of the Email account you want to send from.

Password - The password of the Email account you want to send from.

Uses TLS - Can be turned on/off.

Send Email Alert by default to - Email address to where the email will be sent.

#### 2.7.5. Using GMAIL

Here is an example of a configuration in Gmail to allow less secured apps to send emails or to connect to their SMTP Server.

To use Gmail as a mail server, you need to have a Gmail account. You may sign up for one at <u>https://mail.google.com</u> and port 25 should not be blocked by your ISP.

#### THINGS TO SET UP FOR GMAIL

Below are the instructions on how to set it up.

1. Log in to your Gmail Account and access "Manage your Google Account."



2. On the search bar type in "App Passwords."

Note : Make sure that your 2-factor authenticator is enabled so that you can access the "App Passwords"

Google Account	<b>Q</b> Search	Google Account			
	Q app pa				
Home	2 RESULTS				
E Personal info	Personal info  App passwords Security				
Data & privacy	Web & A	App Activity			
Security	Data & p	invocy			
People & sharing	Q Search Help Center for "app passwords"			you. Learn more	
Payments & subscription	IS	Privacy &	You have secur	ity	
i About		personalization See the data in your Google Account and choose what activity is saved to personalize your Google experience	recommendations Recommended actions found in the Security Checkup		
		Manage your data & privacy	Protect your account		

3. Once you click **"App Passwords"** you will see this pop up message. Just click **"Select App"** and choose **"Other"** 

Verification. Y	ls let you sign in ou'll only need to	o your Google Account from apps on enter it once so you don't need to rem	devices that don't support 2-Ste ember it. <mark>Learn more</mark>
You don't	have any app pa	swords.	
Select the	app and device	you want to generate the app passwor	d for.
Select	ipp ¬	Select device 👻	
Select a	рр		CENEDATE
Mail			GENERATE
Calenda	r		

4. After you choose "Other" you may type in the name of your device or any name you desire.

5. Once you put in the name of your device, you may now click "Generate" so that it will generate you a password that you need to save for later.

App passwords let you sign in to Verification. You'll only need to e	your Google Account from apps on devices that don't support 2-Ste enter it once so you don't need to remember it. Learn more
You don't have any app passw	vords.
Select the app and device you	u want to generate the app password for.
SensorGateway	×
SensorGateway	<u>×</u>

5. After you click "Generate" a pop message will appear. This is now your app password for your device.

Important: Make sure to copy and securely store this password in your notes for future reference. Once you close this pop-up message, the password will not be retrievable. In case you lose it, you will need to follow the same steps again to generate a new password.

Generated app password						
	Your app password for your device					
	tezy gpyj eohp aauc					
	How to use it					
Email	Go to the settings for your Google Account i					
securesally@gmail.com	the application or device you are trying to set					
Password	up. Replace your password with the 16- character password shown above.					
• • • • • • • • • • • •	Just like your normal password, this app					
	password grants complete access to your Google Account. You won't need to remember					
	it, so don't write it down or share it with					
	anyone.					
	DONE					

You are now ready to configure the monitoring software using your Gmail account.

1. Select GMAIL.

A / Settings / Email Alerts
The email settings have been saved.
Settings - Email Alerts
The settings below will be used for email alerting.
Running Anti-Virus software? Make sure that you allow the s-alerts.exe to send out emails as AV software may block it.
Mail Server
E GMAIL
Gmail Username
Gmail Password
Make sure that 2 factor authentication is NOT enabled for this Gmail account.
Send Email Alert by default to
Save Settings Send Test Email Back

Gmail Username - Username of your Gmail Account

**Gmail Password** - In the "Gmail Password" field, kindly retrieve and input the password that was previously saved and paste it into the designated space provided.

Send Email Alert by default to - Email address to where the email will be sent.

Note: To put multiple email addresses, it needs to be separated with a comma (,) and no spaces are allowed.

Note: Make sure that the 2 factor authentication is NOT enabled for your Gmail account.

### 2.8. Configuring SMS

ServersCheck Monitoring Appliance and Software can send SMS Alerts using this option:

<u>ServersCheck Premium Alerts</u> - to be purchased with options of 100 credits or 500 credits.

#### Using ServersCheck Premium Alerts (SMS & Voice Call Alerts)

ServersCheck Premium Alerts is an alerting service provided by ServersCheck for SMS and Voice Calls. It can be purchased from our webstore after you have created an account with <u>https://my.infrasensing.com/</u> with options of 100 or 500 credits.

Here is also an instructional video on how our Premium Credits work. <u>https://serverscheck.infrasensing.com/sensors/how-it-works.asp?item=SMS</u>

1. To use this following feature, you are required to have a my.ServersCheck.com account. If you do not have one yet, you may create an account via this URL <a href="https://my.infrasensing.com/">https://my.infrasensing.com/</a>



2. After logging in, click ALERTS.

Sensor Cloud		News		Help		Products	
Sensor Cloud login	>	latest news from InfraSensing	>	Support & warranty	>	no products registered	:
Alerts		Calibrations		Orders		Account	
100 SMS credits & mail alerts	,	0 active calibrations	>	2 orders found	>	angelie.tuazon@infrasensing.team	(

3. From this page, you have an option to **Buy Credits**.

★ / Alerts History				¢
SMS History			Email Alerts	
П			$\bigcirc$	
			Ľ	
view SMS history	>	free email server for base units		3
<b>2 1 2 3 1</b>			0.40	
SMS Settings			SMS credits	
UID: 6AEFB009BD97454 PIN: 80725	_		100 credits left	
configure SMS & phone numbers	· · · ·	buy credits		;

4. You can purchase option of 100 credits (valid for 1 year) or 500 credits (valid for 3 years). 1 credit per SMS, 3 credits per voice call.

↑ / Store / ¥Shopping Cart	• Pack of 100 SMS credits (valid 1 year)
	• Pack of 500 SMS credits (valid 3 years) 0 \$
	Buy now

5. Once you now have available credits, go back Alerts to configure SMS & phone

#### numbers

Alerts History			
SMS History	>	Email Alerts	
SMS Settings UID: 6AEFB009BD97454 PIN: 80725		SMS credits	
UID: 6AEFB009BD97454 PIN: 80725		100 credits left	

Alerts / SMS							
Purchase Credits							
Alerts UID: SAEFB009BD97454 Credits balance PIN: 80725 100		Registered number(s) +639609102542					
generate new alert uid	>	buy credits		>	nanage numbers		>
Date	↓ <del>≣</del> Sent To	↓∲	Type ↓∲	Message Cor	stont	oearon.	
					nem		
2022-11-04 14:05:57	639176203877		SMS	Resending PIN	code validation SMS		
2022-11-04 14:05:57 2022-11-04 14:05:34	639176203877 639176203877		SMS SMS	Resending PIN Resending PIN	code validation SMS		
2022-11-04 14:05:57 2022-11-04 14:05:34 2022-11-04 13:58:38	639176203877 639176203877 +63917620387	.7	SMS SMS SMS	Resending PIN Resending PIN PIN code valida	code validation SMS code validation SMS ation SMS		
2022-11-04 14:05:57 2022-11-04 14:05:34 2022-11-04 13:58:38 2022-11-04 13:37:56	639176203877 639176203877 +63917620387 +63917620387		SMS SMS SMS SMS	Resending PIN Resending PIN PIN code valida PIN code valida	code validation SMS code validation SMS ation SMS ation SMS		
2022-11-04 14:05:57 2022-11-04 14:05:34 2022-11-04 13:58:38 2022-11-04 13:37:56 2022-11-04 13:37:56	639176203877 639176203877 +63917620387 +63917620387 +63917620387		SMS SMS SMS SMS SMS	Resending PIN Resending PIN PIN code valida PIN code valida	code validation SMS code validation SMS ation SMS ation SMS		
2022-11-04 14:05:57 2022-11-04 14:05:34 2022-11-04 13:58:38 2022-11-04 13:37:56 2022-11-04 13:35:25 2022-11-04 13:34:34	639176203877 639176203877 +63917620387 +63917620387 +63917620387 +63960910254 +63960910254		SMS SMS SMS SMS SMS SMS	Resending PIN Resending PIN PIN code valida PIN code valida PIN code valida	code validation SMS code validation SMS ation SMS ation SMS ation SMS ation SMS		
2022-11-04 14:05:57 2022-11-04 14:05:34 2022-11-04 13:58:38 2022-11-04 13:37:56 2022-11-04 13:35:25 2022-11-04 13:33:25	639176203877           639176203877           +63917620387           +63917620387           +63917620387           +63917620387           +63917620387           +63960910254           +63091762038           +63917620387           +63917620387		SMS SMS SMS SMS SMS SMS SMS	Resending PIN Resending PIN PIN code valida PIN code valida PIN code valida PIN code valida PIN code valida	code validation SMS code validation SMS ation SMS ation SMS ation SMS ation SMS ation SMS		
2022-11-04 14:05:57 2022-11-04 14:05:34 2022-11-04 13:55:38 2022-11-04 13:37:56 2022-11-04 13:35:25 2022-11-04 13:34:34 2022-11-04 13:33:25 2022-11-04 13:33:25	639176203877           63917620387           +63917620387           +63917620387           +63917620387           +63917620387           +63917620387           +63917620387           +63917620387           +63917620387           +63917620387           +63917620387           +63917620387	7 7 12 17 7 7 7	SMS SMS SMS SMS SMS SMS SMS SMS	Resending PIN Resending PIN PIN code valida PIN code valida PIN code valida PIN code valida PIN code valida PIN code valida	code validation SMS code validation SMS ation SMS ation SMS ation SMS ation SMS ation SMS ation SMS		
2022-11-04 14:05:57 2022-11-04 14:05:34 2022-11-04 13:58:38 2022-11-04 13:37:56 2022-11-04 13:35:25 2022-11-04 13:34:34 2022-11-04 13:33:25 2022-11-04 12:41:42 2022-11-04 12:40:41	639176203877 639176203877 +63917620387 +63917620387 +63960910254 +639017620387 +639017620387 +63917620387 +63917620387	7 7 8 8 8 7 7 7 7 7 7 7 7	SMS SMS SMS SMS SMS SMS SMS SMS SMS	Resending PIN Resending PIN PIN code valida PIN code valida PIN code valida PIN code valida PIN code valida PIN code valida PIN code valida	code validation SMS code validation SMS atton SMS atton SMS atton SMS atton SMS atton SMS atton SMS atton SMS atton SMS		

#### 6. Select a Notification Type and the Phone Number.

You may choose from the list of options:

- SMS only
- Voice only
- SMS + Voice

Notification type			
Select a notification type			
Phone Number			
Select a country	T	Your phone number	
Description			
Example: Mike Phone			

7. By now, you should be receiving a text message to the number you inputted and you need to simply go to the link provided on the text message to confirm and authenticate the phone number.

Add Recipient				
Show 10 • entries			Search:	
Number 45	Alert Type	Description 10	Status 10	Actions
+353432224424253546575777	SMS	On Call	Activation Pending	6

## 8. After adding and authenticating the phone number as your recipient. Copy the **Alerts UID** and **PIN**.

Purchase Ci	redits				
Alerts UID: PIN:		Credits balance 690		Registered number(s)	
generate new alert uid	>	buy credits	>	manage numbers	
				Search:	

9. Now on the Monitoring Software, click Menu - Settings - SMS Alerts. Then select Use the ServersCheck Premium Alert Service.

🕇 / S	Settings / SMS Alerts
Setti	ings - SMS Alerts
5011	
SMS aler	ts can be sent either via a GSM Modem or using the ServersCheck Premium Alerting Service
Currently	0 out of 20 sensors are configured to receive alerts via SMS. Apply to all.
SMS C	Dption
	Premium Alerts
	Select an SMS alerting option
Alert I	Premium Alerts
	Alert using a connected GSM Modem
	Use the ServersCheck Premium Alert Service
PIN	
Save	Back
Curr	

10. Paste the **Alerts UID** and **PIN** you copied from your Premium Account under Alert UID and PIN on SMS alerts option of the Monitoring Software. Then Save Settings.

11. Send Test SMS.

n / Settings / SMS Alerts
Settings - SMS Alerts
SMS alerts can be sent either via a GSM Modem or using the ServersCheck Premium Alerting Service
SMS Option
Premium Alerts
Alert UID
PIN
Save Settings Send Test SMS Back

12. You may opt to apply the settings to all your sensor by clicking on apply to all

↑ / Settings / SMS Alerts
The sms settings have been saved.
Settings - SMS Alerts
3MS alerts can be sent either via a GSM Modem or using the ServersCheck Premium Alerting Service
Currently 0 out of 29 sensors are configured to receive alerts via SMS. Apply to all.
SMS Option
Premium Alerts
Alert UID
## 2.9. Setting Slack Alerts

These settings will be used for sending out alert notifications to your Slack channels.

1. Go to the <u>Slack Incoming Webhooks App</u> and Click Sign in to Install. You will be redirected to <u>https://slack.com/apps/AOF7XDUAZ-incoming-webhooks?page=1</u>

Slack App Directory	Q Search App Directory	Browse	Manage	Build	Sign in
< Browse Apps					
	Incoming WebHooks				
	App Info Settings				
ර	This app was made by Slack. It only uses data Slack already has access to (view our Privacy Policy to lea	arn more).			
Sign in to install					
App help	-				
Terms					
Categories:					

2. If you already have a Slack account, enter the name of your Slack URL. If you do not have an account yet, click Create a new workspace.

5	lign in to your workspa	ace
	Enter your workspace's Slack URL.	
	your-workspace-url .slack.	.com
	Continue →	
	Don't know your workspace URL? Find you workspace	ur
Need to ge	et your group started on Slack? Create a ne	ew workspa

3. Click Add Configuration.



4. Select the Channel you want to send the alerts into from the drop down list. And click **Add Incoming Webhooks Integration**.

mind while building your own. You o updates to our APIs.	an also register as a developer to let us know what you're working on, and to receive futur
Post to Channel	
Start by choosing a channel where your Incoming Webhook will post messages to.	Choose a channel
	Add Incoming WebHooks integration
	By creating an incoming webbook, you agree to the Slack API Terms of Service.

5. From the setup screen, copy the Webhook URL

Setup Instructions We'll guide you through the step	os necessary to configure an Incoming Webhook so you can start sending data to Slack.	close
Webhook URL	https://hooks.slack.com/services/	
Sending Messages	You have two options for sending data to the Webhook URL above: <ul> <li>Send a JSON string as the payload parameter in a POST request</li> <li>Send a JSON string as the body of a POST request</li> </ul>	
	For a simple message, your JSON payload could contain a text property at minimum. This is the text that will be posted to the channel. A simple example:	

6. On the Monitoring Software, Click Menu then go to Settings - Slack Alerts.

Ð					
1 / Settings					
	Slack Alerts 28/29		Email Alerts 0/29	SMS	SMS Alerts 0/29
Update	0	Update	Ð	Not Yet Configured	Ð

7. Paste the **Webhook URL** in the Settings - Slack Alerts Page of the Monitoring Software.

🔶 / Set	ttings / Slack Alerts
A test S	lack message was sent to the alerting module
Settir	ngs - Slack Alerts
The setting To receive a	is below will be used for sending out alert notifications to your Slack channels. alerts into Slack, you need to enable the Slack Incoming Webhooks apps ().
Slack W	/ebhook URL
<b>#</b> h	https://hooks.slack.com/services/
Save	Settings Send Test Slack Message Back

8. Save Setting and do a Send Test Slack Message. If successful, you should be receiving a similar message from your Slack account.



9. You may opt to apply your settings to all the sensors in your software

Settings - Slack Alerts
The settings below will be used for sending out alert notifications to your Slack channels. To receive alerts into Slack, you need to enable the Slack Incoming Webhooks apps 1.
Currently 28 out of 29 sensors are configured to receive alerts via Slack Apply to all.
Slack Webhook URL

## 2.10. Setting up Username and Password

You need to setup a login Username and Password for the security of your Monitoring Software as it will be your credentials when you access the software on a separate computer. Note: If accessing the software on a local host, it will not prompt for a Username and Password.

1. Click Menu and go to Settings - Username & Password.

Default Username - admin Default Password - admin

ਦੇ							
↑ Settings							
	Slack Alerts		Email Alerts 0/20	SMS	SMS Alerts 0/20		
Update	Ð	Not Yet Configured	Ð	Update	0		
2	Username / Pass Change		System Name	2	Software License	0	Default View
Default password still active	e <b>O</b>	Update	Ð	Update	٥	Update	0
Configure	Network to Use			2	Use Cl	mame / Pass	
A				Default pa	ssword still active	Ð	

2. Provide your new Username and Password and save settings.

eeware version. Free for personal, private use only. Use by a for-profit or government organization requires a paid licer	Së.
✿ / Settings / User Name & Password	
Settings - User Name & Password	
is is the username and password used for logging into this application.	
User Name	
admin	
Current Password Enler the current password	
New Password	
Password	Confirm
Minimum of 6 characters	
Save Settings Back	

**Username** - use alphanumeric characters only **Password** - minimum of 6 characters

## 2.11. Activating the License of your Software

Freeware will be for personal and non-commercial use. For profit and government use, then you need to purchase a license. License is required per system on which the software is installed. You may contact any of our resellers or send an email to hello@ServersCheck.com for pricing.

1. Once you have purchased the license, you may activate it by clicking the **Menu - Settings - License**.

<b>ਦ</b>					
🕇 / Settings					
	Slack Alerts 8/8		Email Alerts 8/8	SMS	SMS Alerts 8/8
Update	٥	Update	O	Update	٥
2	Username / Pass	<b>P</b>	Software License Trial	0	Default View
Update	٥	Update	0	Update	O
ര					
Support Forum	0				

2. Click **Show/Change License Info**. A **System ID** will be generated with a unique identifier based on a specific Windows computer the software is installed.

Note: The License Key only works on the computer it was issued for. Changing the installation of the software in another computer, requires a new license key.

↑ / Settings / License
Settings - License
You are running the Monitoring Software v14.4.0 (Build 2019011901)
When the software is used by a for-profit or government organisation, then a paid license is required per system on which the software is installed.
Show / Change License Info
System ID
License Key
Get license key
Free Upgrades expire on
Change/Update License Back

3. Clicking **Get License Key**, will redirect you to <u>https://my.infrasensing.com/</u> page. You need to Create an Account first if you do not have one yet, otherwise log in with your registered Email Address and Password.

<b>e</b>	
	Email address Password
	O Sign in
	Forgot Password? Create an Account

4. Go to **Products** and register your purchases.

Sensor Cloud	News	Care	Products		
Sensor Cloud login	latest news from ServersCheck	Care: support & warranty	4 software & 148 sensors registered		
Alerts	Calibrations	Orders	Account		

5. Register the software. You need to input the InfraSensing Order Number if you purchased directly from InfraSensing or from a Reseller.



6. After registering your Order, you need to Register your System ID to obtain an activation key. The System ID can be found in the Software's License Page.

Register System ID	×
As of version 14.4 a System ID is required to obtain a software activation key. The System ID can be found on the software's license page.	
SKU MON-APPLIANCE	
System ID System ID as can be found on the software's license page	
Only alpha numeric characters and a dash character are allowed for the System ID. Ler is 36 characters. System Name	igth
Optional. You can provide a name to this installation so that you can easily identify	
Close Save System	ID

7. A license key will be generated in which you can copy and paste on the Software's License Page.

Product ↓	Name 🎼	System ID	J.	License Key	Support Until 🏼	Upgrades Until J	Purchase Date ↓1
MON- APPLIANCE	Demo Appliance	BA304D	C	397c9a	019-09-21	2019-09-21	2017-10-19

Note: Once the license is activated, you need to restart the software or the PC to apply the new license settings.

Additional Note: License Key can also be generated from your Order Page.

## 2.7.1. License Agreement

This document is a legal agreement between you (either an individual or a single entity), the "END USER," and ServersCheck BVBA, the "AUTHOR". By installing, copying or otherwise using the enclosed SOFTWARE you agree to be bound by the terms of this license agreement. As used in this License agreement, the term "SOFTWARE" means the SOFTWARE included on the CD, disk media, or otherwise electronically supplied SOFTWARE provided with this License Agreement. The term "SOFTWARE" does not include any SOFTWARE that is covered by a separate license offered or granted by a person other than the AUTHOR. This SOFTWARE product is licensed not sold.

This license agreement applies to versions 14.0.1 or higher of the SOFTWARE until replaced by another license.

IF YOU DO NOT AGREE TO THESE TERMS AND CONDITIONS, BEFORE INSTALLING OR EXECUTING, COPYING, OR OTHERWISE USING THE SOFTWARE, EITHER DESTROY OR RETURN, INTACT, THE SOFTWARE, CONTAINING THE CD OR DISK MEDIA, TOGETHER WITH THE OTHER COMPONENTS OF THE PRODUCT TO THE PLACE OF PURCHASE.

1. PROPRIETARY RIGHTS. The SOFTWARE and any accompanying documentation are proprietary products of ServersCheck BVBA and are protected under European and U.S. copyright laws and international treaty provisions. You obtain no rights, title or other interests in or to the enclosed SOFTWARE or related documentation, including any copyright, patent, trade secret, trademark or other proprietary rights therein. Ownership of the SOFTWARE and all copies, modifications, and merged portions thereof shall at all times remain with ServersCheck BVBA. All copies of the enclosed SOFTWARE, in whole, or in part remain the intellectual property of SeversCheck BVBA unless otherwise specified.

2. GRANT OF LICENSE FOR SERVERSCHECK MONITORING SOFTWARE. The SOFTWARE is licensed to you, which means you have the right to use the SOFTWARE only in accordance with this License Agreement. The SOFTWARE is considered in use on a computer when it is loaded into temporary memory, or installed into permanent memory. You may not sell, license, sublicense, transfer, assign, lease or rent (including via a timeshare arrangement) the SOFTWARE or the license granted by this Agreement.

3. NON PERMITTED USES. Without the express permission of the AUTHOR, END USER may not (a) use, copy, modify, alter, or transfer, electronically or otherwise, the SOFTWARE or documentation except as expressly permitted in this License Agreement, or (b) translate, reverse program, disassemble, decompile, or otherwise reverse engineer the SOFTWARE, or (c) use, bundle or ship it as part of a service or a product for which the END USER receives a financial compensation.

4. TERM. This license is effective from your date of purchase and shall remain in force until terminated. You may terminate the license and this License Agreement at any time by destroying the SOFTWARE and the accompanying documentation, together with all copies in any form. You agree to cease any and all further use of the SOFTWARE. This Agreement will terminate automatically if you breach any provision of this license agreement. Termination will have no effect on your obligation to safeguard proprietary rights of the AUTHOR under Section 1, or disclaimers under Section 8.

5. WARRANTIES AND LIABILITY. The AUTHOR disclaims all warranties relating to this SOFTWARE. This SOFTWARE is distributed on an "AS IS" basis without warranties of any kind, whether expressed or implied, including without limitation any implied warranties of merchantability or fitness for any particular purpose. The AUTHOR or his suppliers assumes no liability for any damages, including but not limited to, special, incidental, consequential, indirect, loss of data, loss of profit, use of SOFTWARE or similar claims, or for any other reason. Even if the AUTHOR has specifically advised you of the possibility of such damage regardless of the form of the claim. The END USER bears all risk as to the quality and performance of the SOFTWARE. Should any other warranties be found to exist, such warranties shall be limited in duration to (90) days following the date of delivery to you. In no event will the AUTHOR's or his

suppliers' liability for any damages to you or any other person exceed the amount paid for the license to use the SOFTWARE.

6. HIGH RISK ACTIVITIES. The SOFTWARE is not fault-tolerant and is not designed, manufactured or intended for use or resale as on-line control equipment in hazardous environments requiring fail-safe performance, such as in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, direct life support machines, or weapons systems, in which the failure of the Software could lead directly to death, personal injury, or severe physical or environmental damage ("High Risk Activities"). ServersCheck BVBA and its suppliers specifically disclaim any express or implied warranty of fitness for High Risk Activities.

7. DISTRIBUTION & BUNDLING. The bundling of the SOFTWARE with other product(s) or service(s), or the distribution of the SOFTWARE in any form requires the purchase of Distribution and Bundling Agreement. Contact sales@ServersCheck.com for pricing information.

8. MARKETING. Unless END USER submits to the AUTHOR a written request that END USER's company and/or END USER's Web site cannot be used for marketing purposes, END USER hereby grants to AUTHOR the right to mention END USER's company and/or END USER's Web site as a customer site in its marketing materials, such as on AUTHOR's Web sites, in product brochures, or in other media. Such usage may include listing END USER's Web site, linking to END USER's Web site, and/or displaying END USER's company's logo as part of such listings or links.

9. FREE VERSION. The use of the free version of the SOFTWARE is only allowed when in use for personal, private use. Use by for profit organizations & government agencies requires a paid license.

10. This License Agreement constitutes the entire agreement between you and the AUTHOR pertaining to its subject matter. This License Agreement is governed by the laws of Belgium, and shall benefit the AUTHOR, his Successors and assigns. Any litigation arising from this license will be pursued only in the courts located in Leuven, Belgium.

No responsibility is assumed by ServersCheck BVBA for the use or reliability of software.

For further information: Should you have any questions concerning this Agreement, or if you desire to contact the AUTHOR for any reason, please e-mail: hello@ServersCheck.com

Copyright 2003-2017 ServersCheck BVBA and 3rd parties. All rights reserved.

# **3. Setting up Your First Checks**

Upon installation of the software, it comes in with a default PING and DNS checks



# 3.1. Adding ServersCheck Sensors (Environment, Power, Security, Industrial) & Controls

1. Click Menu and select Add New Sensor.

0		
Bashboard	private use only. Use by a for-profit or government organization	requires a paid license.
I Sensors	u Daviese ( hu Lessie	
In Reports		
Alerts History	1	0
ℱ Settings	ок	WARNING
+ Add New Sensor	View Details	0
	PING (1) O ⊕ 0 ⊕ 0	

2. Select InfraSensing Sensors

7 / Add New Sensor									
What would you like to monitor?									
	• • 2		윰						
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections						
Routers, Switches, Printers,		•							
Network Devices	Servers (Windows & Linux)	Websites O							

3. Input the IP address of the SensorGateway as shown on the OLED display.

Add New Sensor / Physical Sensor
Add New Physical Sensor
The system will scan your SensorGateway and detect any connected sensor to it.
SensorGateway IP Address as shown on the OLED display
192.168.9.33
Use Default SNMP Connection Settings
Control outputs on Sensorhub, IO Dry Contact or Multi-Sensor & Hub? Or do you have a Thermal Imaging Camera connected?
🖲 yes 🔘 no
SensorGateway's Username & Password
admin
••••
Submit Back

#### Use Default SNMP Connection Settings

If Yes, default Community String - **public** default Port - **161** 

lf No,

Use the Community String set under SNMP Settings of the Sensorgateway.

If your SensorGateway is connected to a Sensorhub, IO or Multisensor, select Yes. Then it prompts for the SensorGateway Username and Password.

#### Sensorgateway's Username & Password

Default Username - **admin** Default Password - **admin** 

If the Username and Password was changed on the Sensorgateway, input the new Username and Password to access the Sensorgateway.

4. The following sensors connected to the Sensorgateway should automatically be detected, and you can also modify Sensor Name and the Sensor Type. By default, all are selected. But you can only select which sensors you wish to monitor.

Note: If there are dry contacts connected, it will have to be monitored via SNMPTRAPS and	d
will not show on the list	

ensor List			
Chaor Elat			
Monitor	Sensor Name	Sensor Type	Value
•	Int. Temp1	TEMPERATURE	29.92
•	Int. Ping1	PING <b>v</b>	215.00
•	Airflow1	AIRFLOW	0.00
•	Dust Sensor1	DUST	0.02
•	Airflow1	AIRFLOW	0.00
×	PowerFail1	POWER FAILURE	PWR F/
•	Airflow1	AIRFLOW	0.00
v	Sound Meter1	SOUND	43.07
•	Dew Point1	DEW	-20.00
×	Ext. Temp1	TEMPERATURE	26.06
2	Humidity1	HUMIDITY	48.02
×	Dew Point1	DEW	15.67
•	Ext. Temp2	TEMPERATURE	26.81
2	Humidity2	HUMIDITY •	64.31
2	Deve Delet2	DEW	10.67

5. Next screen should appear if you have Output controls selected. You can modify the Control Name also.

Add New Sensor / Physical Sensor	/ Remote Controls
dd Remote Control	
tput controls can be found on the SensorH u can change the name of the remote cont	ub, IO Dry Contact sensor and the Multi-Sensor & Hub. While scanning your SensorGateway, we found following remote controls. rols in this form or change it in the SensorGateway and then re-run this wizard.
Control ID	Control Name
0	Output1
1	Output2
2	Output3
3	Output4
4	Relay1
5	Relay2
Submit Back	

6. If successful, the device/sensors will then be added to the database.

Freeware version. Free for personal, private use only. Use by a for-profit or government organization requires a paid license.
Add New Sensor / Saving Physical Sensor
Device with IP 192.168.9.33 added to the database.
SNMP credentials stored for this device
Web credentials stored for this device

7. After adding up the device and the sensors, you should be able to see it on the Dashboard.

D	ee for personal, private	e use only. Use by a fo	r-profit or government	organization requires	a paid license.						
A Sensors Group	ped by Type / by Dev	ices / by Location									
		<b>13</b> ок	A		0 warning			4 down	4 Alert:	5	0 IO Controls
View Details		٥	View Details		0	View Details		0			
AIRFLOW (3) 0	© 1 ⊕ 0	DEW (3) 11.9	❻ 19.62 ⊕ -	ONS (1)	© Fail ⊕ Ok	DUST (1)	❹ 0.02 ⊕ 0.02	HUMIDITY (2) 55.0	<ul><li><b>0</b> 63.12</li><li><b>0</b> 46.85</li></ul>	PING (2)	<b>③</b> 214 ④ 0
POWER-FAIL (1)	<ul><li>⑦ FAIL</li><li>④ OK</li></ul>	sound (1) 43.1	<ul><li>④ 43.07</li><li>④ 43.07</li></ul>	temperatur 28.2	E (3) ③ 31.00 ④ 26.69						

## 3.2. Editing a Sensor/Check

1. By default on the dashboard, all sensors are grouped by Type. Click an individual Sensor Type. In this example, we selected Temperature.

Ð											
Freeware version. Free for personal, private use only. Use by a for-profit or government organization requires a paid license.											
Sensors Group	ed by Type / by Devic	ces / by Location									
		<b>13</b> ок	A		0 warning			4 down	4 🔺 Alerts		0 IO Controls
View Details		٥	View Details		٥	View Details		٥			
AIRFLOW (3)	© 1 ⊕ 0	DEW (3) 11.9	❻ 19.62 -	ONS (1)	© Fail © OK	DUST (1) 0.0	© 0.02 ⊙ 0.02	HUMIDITY (2) 55.0	<ul><li></li></ul>	PING (2) 107	ତ 214 ⊙ 0
POWER-FAIL (1)	⊕ Fail @ OK	sound (1) 43.1	<ul><li><b>④</b> 43.07</li><li><b>④</b> 43.07</li></ul>	temperature 28.2	(3)						

2. This gives you a list of all sensors with the same type.

	3 ок	A View Details	0 warning	Lip View Dataile	0 Down	Alerts	ර් 10 Controls මේ Graph
now 10 v entries	•	Status 🗘	Name	÷	Last Value	Last Check	Search:
EMPERATURE		OK	Int. Temp1		31.67	a few seconds ago	)
EMPERATURE		ок	Ext. Temp1		26.87	a few seconds ago	)

3. Select an individual sensor to open up the sensor parameters. By clicking Edit Sensor Settings, you can then customize with several options that are further explained below.



#### 4. General Tab

A / Sensor Ext. Temp1 - Stats / Edit Sensor Settings
Sensor - Ext. Temp1
Ø General         Ø <sup>*</sup> <sub>0</sub> Parameters         ▲ Alert Levels         ▼ <sup>5</sup> Alert Notifications
Sensor Name
Ext. Temp1
Sensor Type
TEMPERATURE
Device
192.168.9.33 v
Sensor Running
Checking Interval (in seconds)
60
Site Back Delete Sensor

Sensor Name - You can customize a name for that specific sensor.

Sensor Type - Will show what type of Sensor it is.

Device - List of individual devices to which that specific sensor will be grouped under.

Sensor Running - Able to Play or Pause the monitoring of the sensor.

**Checking Interval (in seconds)** - Number of seconds before it gets the current value of a sensor. Minimum - 30 seconds Default value - 60 seconds

Delete Sensor - If you want to delete the sensor completely from the list.

#### 5. Parameters Tab

↑ Sensors / Sensor Ext. Temp1 - Stats / Edit Sensor Settings	
Sensor - Ext. Temp1	IP address - Setting the IP address
	you set for that sensor. Community String - Handshaking
IP Address	used for SNMP.
192.168.9.33	Default - public
Community String           public            Port	Port - SNMP port. Default - 161 OID - You can manually input the
161	OID string.
OID	
1.3.6.1.4.1.17095.11.4.2.0	_
Save Back	

## 6. Alert Levels Tab

Sensor - Ext. Temp1	
Set sensor in WARNING state when A. B.	Set sensor in DOWN state when Sensor Value
<b>T C. T</b>	<b>T T</b>
Sensor Value ? ? D. E.	Sensor Value ?
Save Back	Delete Sensor

Setting up specific thresholds for Warning state and Down State.

Alert levels for both warning state and down state works by completing the statements:

- **A.** First threshold level. You may select if a certain sensor is : less than (<),greater than (>), equals (=), contains, ignore
- B. Input a value based on what you selected on (A).
- C. You can select AND or OR if you want to include another specific threshold level.

**D.** Second threshold level. You may select if a certain sensor is : less than (<),greater than (>), equals (=), contains, ignore

E. Input a value based on what you selected on (D).

Note: Example of a Warning state is if temperature value is at 44 deg C, Down state should be configured at 48 deg C with the same settings as explained above.

7. Alert Notifications Tab

Alert Levels Alert Notifications	
end Email Alerts	Send SMS Alerts
no	no
yes to the default email address(es)	ves to the default SMS number(s)
yes to this address(es)	yes to this number(s)
	L.
i yes to the default channel	

Able to send Email notifications, SMS notifications or Slack Alerts if the thresholds you set are met.

#### Send Email Alerts

no - If no email is to be sent
yes to default email address(es) - If to be sent to what you set under Section 2.4.
yes to this address(es) - If to be sent to specific email address(es).
Note: separator is a comma, no spaces.

#### Send SMS Alerts

no - If no SMS is to be sent.
yes to default SMS number(s) - If to be sent to what you set under Section 2.5.
yes to this number(s) - If to be sent to specific phone number(s).
Note: Use valid phone numbers (+ symbol and numbers only). For multiple numbers, use a comma as a separator. For example: +180075489, +334546545

#### Send Slack Alerts

**no** - if no Slack message is to be sent. **yes to the default channel** - If to be sent to what you set under Section 2.6.

**Custom Alert Message** - Allows you to create your own customizable message to be sent when there is an alert.

# 3.3. Editing a Device and Adding Location

<b>ਦ</b>											
Freeware version. Free	for personal, private use o	nly. Use by a for-profit or go	vernment organization requ	ires a paid license.							
A Sensors Groupe	d by Type by Devices	by Location									
		<b>13</b> ок	A		0 warning	1		4 down	<b>3</b> ▲ Ale	ts	O IO Controls
View Details		0	View Details		٥	View Details		0			
AIRFLOW (3)	© 1 © 0	DEW (3) 11.9	Ø 19.56 Ø -	DNS (1) OK	@ Fail @ OK	DUST (1) 0.0	❹ 0.02 ● 0.02	HUMIDITY (2) 55.0	● 63.45 ● 46.46	PING (2) 145	@ 291 @ 0
POWER-FAIL (1)	@ Fail © Ck	sound (1) 42.1	● 42.14 ● 42.14	temperature 28.6	(3) @ 31.98 @ 26.87						

1. From the Dashboard screen, select Sensors Grouped by Devices.

2. Select a device you want to edit.

Sensors Grouped by Devices / by Ty	rpe / by Location		
	<b>13</b> ок	A	0 warning
View Details	0	View Details	0
Demo	192.168.9.33		

3. This screen shows you all sensors that are connected within the device. By clicking **Edit Device**, you can then customize with several options that are further explained below.

📌 / Devices / Device 192.168.9.33 / Sensors List								
1	<b>12</b> ок	A	0 warning	1	3 down	•	Alerts	🕑 10 Controls
View Details	0	View Details	0	View Details	0			
Show 10 V entries								Search:
Sensor Type	*	Status	Name		Last Value		Last Check	\$
AIRFLOW		ОК	Airflow1		1.03		a minute ago	
AIRFLOW		ОК	Airflow1		0.00		a minute ago	
AIRFLOW		DOWN	Airflow1		-0.00		a minute ago	
DEW		DOWN	Dew Point1		-0.00		a minute ago	
DEW		ОК	Dew Point1		16.20		2 minutes ago	

#### 4. General Tab

A   Devices   Devices 192, 198, 9, 33 Sensors   Edit Device 192, 198, 9, 33 Sensors
Device - 192.168.9.33
Device Name
Deno Test
Device IP Address
102108.9.33
Device Active
Locations
Add a rew location
Save Back

Device Name - You can customize a name for the Device type.

Device IP address - Setting up/editing the IP address of the device.

Device Active - Able to Play or Pause the monitoring of the device.

Locations - Able to edit the location of the device to anywhere in the world.

Delete Device - Delete a device completely from the list.

/ Devices / Devices 192.168.9.33 Sensors / Edit Device 192.168.9.33 Sensors					
evice - 192.168.9.33					
Ø General 0° SNMP & Web Credentials					
Device Name					
Demo Test					
Device IP Address 192.168.9.33					
Device Active					
Locations					
Add a new location					
Save Back					

## 4.1. Adding a Location > Select Add a New Location.

4.2. Input the details of the location. Then click Save Location. Once you have added the location, you can now then select the Location Name from the Dropdown menu on Locations.

	Type in an address - Input specifie
Add a new location	address where the device is located to search. Search results
new york	address you input.
Find Address Search results: New York City, New York, United States of America	Note: selecting from any of the search results will automatically provide the Latitude and Longitude of the address.
<ul> <li>New York, Onlined States of America</li> <li>New York, New York City, New York, United States of America</li> </ul>	Location Name - Providing
<ul> <li>New York, Tyne and Wear, North East England, England, United Kingdom</li> <li>New York, Santa Rosa County, Florida, United States of America</li> </ul>	specific name of the location.
Location name	<b>Latitude</b> - You can manually input the latitude of the address.
Give a name to this location	
Latitude	Longitude - You can manually
40.7306458	input the longitude of the addres
Longitude	
-73.9866136	Location Address - You can inpu
Location address	location
New York City, New York, United States of America	location.
Close Save location	Upon adding a location, this will enable you to set up a Floor Plar which will be explained further i Section 3.4 of the manual.

#### 5. SNMP Tab

↑ Devices / Devices 192.188.9.33 Sensors / Edit Device 192.188.9.33 Sensors	Comm
Device - 192.168.9.33	The hai
♦ General SNMP	Default
Community String	Port - I
public	port.
Port	Default
181	_
·	
Save Back	

**Community String** -The handshake for SNMP. Default value - **public** 

**Port** - Input the SNMP port. Default - 161

#### 6. Web Credentials Tab

This is for the username and password used to connect to the Sensorgateway's Web Interface.

Device - 192.168.9.33	
General	Username - The same username used to access the Sensorgateway's Web Interface. Default - admin Password - The same password used to access the Sensorgateway's
Save Back	Web Interface. Default - admin

## 3.4. Adding a Floor Plan

Upon grouping your devices by location, you also have an option to upload a floor plan wherein you can place your sensors on that specified location.

1. From your Dashboard screen, group your devices by Location.



2. This opens up the world map where you see all of the devices set on different addresses.



3. Clicking View Details on each of the address will show all of the status of the devices which are normal, in warning, and down.



4. Click Add Floor Plan.

🛉 / Map / Locati	ons / Location New York Add	dress									
		<b>12</b> ок	A		0 warning	1		3 down	▲ Alerts		🖕 IO Controls 🕈 Floor Plan
View Details		0	View Details		0	View Details		0	/ Edit Locat	bon	
View larger map C Webste ton are are be Public Theater O New York Address	Creal Coole Bar O Coole Bar O Trooge Mig Gas contrology Tr	STUYVESA TOWN									
AIRFLOW (3)	© 1 © 0	DEW (3) 11.9	⊕ 19.50 @ -	DUST (1) 0.0	<ul><li>● 0.02</li><li>● 0.02</li></ul>	HUMIDITY (2) 54.0	⊕ 62.75 ⊛ 45.31	PING (1) 220	<ul><li>② 220</li><li>③ 220</li></ul>	POWER-FAIL (1)	@ Fail @ OK
sound (1) 44.8	⊕ 44.78 ⊛ 44.78	TEMPERATURE (3)	<ul><li>③ 31.88</li><li>④ 26.94</li></ul>								

Save a copy of a floor plan design in PNG file format **for Temperature layer**, **Humidity Layer** and **Flooding Layer** or a single design for all.

Where to save the floor plan?

\* Locate the directory where you saved the Monitoring Software. Copy the 2D floor plan in PNG format to the **/static/uploaded** subfolder of your main ServersCheck installation. Once you have saved a floor plan, it should appear on a list of PNG files. Select one you wish to add by clicking on the one with the box as shown below.



- 5. Adding your Sensors to your Floor Plan
  - Click View Floor Plan.

Public Theater Cack Rack Rack Rack Rack	
Construction         Construction<	•

• Click Edit Floor Plan.

🕈 / Location New York Address / Floor Plan Floorplan	
ioor Plan Floorplan	Z Edit Fu
Temperature & Flooding Layer	
	Back     Back     Back     Back       1     2     3     4       6     7     8     9       10     8     9     10

• Place your sensors to the Floor Plan.

Floor Plan Name - you can rename the Floor plan name.

You do have options to place sensors on the Floor Plan. If you have a list of Humidity, Temperature and Flooding Sensors, you will be able to place it on the floor plan.

- Move or place the sensors to the specific location of the floor plan.

- You can adjust the Sensor size with respect to the scale of the floor plan.

- Able to change Celsius or Fahrenheit temperature unit as the software will automatically adjust the color zones.

- The archived maps are stored in the respective archive subfolders. For temperature, this is /heatmaps/temperature/archive

Then click Save Sensors & View.

oor plan name		
Horpian		
ensors for TH Office + Humidity Sensors Sensor Size	Save Sensors & View	H H H H H H H H H H H H H H

This should show similar as the one below.

$\supset$		
	RackRackRackRack12345	
H V A C		H V A C
	RackRackRackRack678910	

If you have a Leak sensor added, it will also let you place the Leak Detection Cable on the floor plan.

oor pian name				
Floorplan				
Save Name				
ensors for New York Address	Save Sensors & View			
Humidity Sensors				
- Temperature Sensors				
+ Flooding Sensors Flooding1	Place		RackRackRackRackRack12345	_
-		HV		H
		C		C
			RackRackRackRack678910	
		SERVER	SCHECK Server Room	

You can then draw the section of the Leak sensor on the floor plan.



This should show similar to the image below.



# 3.5. Adding a Thermal Image

If you have a Sensorgateway connected with a Thermal Imaging Camera, once you have added it as shown in Section 3.1. It should be detected to show on the dashboard when you group devices by location.



1. From your Dashboard screen, group your devices by Location.

2. This opens up the world map where you see all of the devices set on different addresses.



3. Clicking View Details on each of the address will show all of the status of the devices which are normal, in warning, and down.



4. It should show as similar to the images below

रू 🕈 / Map / Location Company H	۵						=
View Details	49 ок	View Details	0 warning o	View Details	0 down o	Alerts	O IO Controls ✔ Edif Location
View larger map	NOSEGEN	Thermal Image on Demo	÷	Fact. Here: 1 2 View Plan Sample	( Bick, Back, Bock 3 4 5		
DEW POINT (7) 17.4 © 17.42 © 17.40	HUMIDITY (7)	@ 56.71 @ 56.71	K(1) RY ⊕ WET ⊕ DRY	PING (5) 27	в sноск (7) 1.0	© 1.12 © 0.88 2	MPERATURE (22) <b>9</b> 26,08 <b>5.1 9</b> 23,88



## 3.6. Controlling Outputs and Relays

After adding ServersCheck sensors shown in Section 3.1, it does gives you an option to include I/O controls if your device has a Sensorhub, IO Dry Contact Sensor or Multi-Sensor & Hub.

Section 3.1, number 5 gives you a full list of IO sensors. Once added, it should appear on the Dashboard option of the software.

2											
eeware version. Free	for personal, private use	e only. Use by a for-profit or gow	ernment organization re	quires a paid license.							
A Sensors Grouped	d by Type / by Devices	/ by Location									
		<b>28</b> ок	A		0 warning			6 DOWN	6 🌲 AJ	erts	0 IO Controls
View Details		٥	View Details		0	View Details		0			
AIRFLOW (3)	⊚ 1 @ 0	DEW (4) 13.5	⊕ 19.20 @ -	DNS (1) OK	© Fail © OK	DUST (1) 0.0	<ul><li>♥ 0.02</li><li>● 0.02</li></ul>	HUMIDITY (3) 51.5	© 61.95 @ 44.08	LEAK (1) DRY	I WET I DRY
LUMINOSITY (1) 15.0	<ul><li>● 15.00</li><li>● 15.00</li></ul>	MOTION (4) 0.0	❹ 0.00 ④ 0.00	PING (3) 85	@ 214 @ 0	POWER-FAIL (3) OK	() Fail () Ok	sноск (1) 1.0	© 0.97 ⊚ 0.97	sмоке (1) 1.0	ூ 1.00 ⊛ 1.00
50UND (2) 43.9	⊕ 43.93 ⊛ 43.92	TEMPERATURE (5) 29.0	⊕ 31.80 ⊛ 28.81	VOLT (1) 220.0	<ul> <li></li></ul>						

1. From the Dashboard screen, select **IO Controls**.

2. You will see a drop down list of all Sensorgateway devices that you have added that has IO sensors.

a unit			
a unit 8.9.33			*
		Submit	Close
		1 Kerry Destrice	Submit

3. Select to one of the Sensorgateway that you want to control the Outputs. Choose an output or relay you wish to override.

ර Output Controls	x
SensorGateway 192	. 168.9.33 🔻
Control Name	Status
Output1	ON OF
Output2	OFF
Output3	OFF
Output4	ON OF
Relay1	OFF
Relay2	OFF
	Submit Close

# 4. Setting up Other Check Type

# 4.1. Adding Checks for 3rd Party Sensors (SNMP)

This check will allow you to monitor other 3rd party SNMP sensors. Only SNMP capable devices will be able to be added under this check.



1. Access Menu and Click Add New Sensor.

2. Select 3rd Party Sensors (SNMP).

↑ Add New Sensor							
What would y	ou like to monito	r?					
		• •				器	
InfraSensing Sensors	0	EST (Covid-19) kits	Ð	3rd Party Sensors (SNMP)	0	Network Connections	0
≈   ≈	Routers, Switches, Printers,	** ** **					
Network Devices	Ð	Servers (Windows & Linux)	0	Websites	0		

3. Input the IP address or Domain Name of the 3rd party sensor you want to monitor.

#### Use Default SNMP Connection Settings

If Yes,

default Community String used for the 3rd party device. default Port used for the 3rd party device

If No, use custom settings

Use the Community String and port set for the 3rd party device.

dd N	ew Sensor / 3rd Party Sensor	nsor		
e system w	I scan your third party sensor fro	n SNMP and detect a	any values.	
3rd Party I	Address as shown on the OL	D display		
IP addre	s or domain name			
⊜yes ⊛ Communit	no, use custom settings / String			
public				
Port				
161				

## 4.2. Adding Checks for Network Connections

ServersCheck Software monitors your network performance and capability.

## 4.2.1. Adding Ping Check

This check will perform an ICMP ping to the destination server to check if server is available for connection. This check will send a ping command to a destination server and will retrieve the response time.

- 🚯 Dashboard private use only. Use by a for-profit or government organization requires a paid license. I Sensors y Devices / by Location Let Reports Alerts History 28 ✤ Settings + Add New Sens Ø View Detail ø 18.61
  - FAIL
   OK 13.0 OK ⑦ 0.00③ 0.00 216
  0 0.0 82 31.4426.62 220.00
  220.00 28.8 220.0
- 1. Access Menu and Click Add New Sensor.

## 2. Select Network Connections.

🟫 / Add New Sensor			
What would you like to monitor	?		
	• • ਦ		器
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections
Routers, Switches, Printers,			
Network Devices	Servers (Windows & Linux)	Websites	

3. Select PING.



4. Input the IP address or Domain Name you want to monitor and put a Sensor Name. This Sensor Name will be the name that should appear on the Dashboard.

ਦ	
Add New Sensor / Network Sensor / PING	
Add New PING Sensor For this sensor type, the system will perform a PING check to the remote IP and measure its response time in ms (milliseconds).	
Remote Server IP Address or Domain Name           192.168.9.14	
Sensor Name Ping Test	
Submit Back	

5. Once done, it should appear as one of the monitored checks on the Dashboard.

Devices / by L	ocation					_	
<b>66</b> ок	A		1 warning	•••	0 down	10 🌲 Alerts	ර් IO Controls
O	View Details		Ð	View Details	Ð		
DEW POINT (7)	<ul><li>𝕶 18.11</li><li>𝕶 18.11</li></ul>	DNS (1) OK	<ul><li>● FAIL</li><li>● OK</li></ul>	DUST (3) 0.00 © 0.04 © 0.04	ниміріту (7) <b>70.00</b>	<ul><li>70.04</li><li>70.04</li></ul>	LEAK (1) DRY <sup>©</sup> WET © DRY
вноск (7) 1.00	<ul><li>● 1.02</li><li>● 1.00</li></ul>	sound (3) 46.20	<ul><li>● 46.98</li><li>● 44.76</li></ul>	TEMPERATURE (28) 24.70 <sup>©</sup> 30.79 © 22.93			
	evices / by L 66 ок е мем Роінт (7) 18.10	Pevices / by Location 66 ok ov View Details View Point (7) 18.10   18.11 18.10   1.02 1.00   1.02	Pevices / by Location 66 ok ov View Details View Pointr (7) 18.10 © 18.11 OK SOUND (3) 1.00 © 1.00 0 1.00	Image: Sevices / by Location           66 or or         1 or         1 warning view Details         0           view Doint (7) 18.10         0 H8.11 0 K         0 FAIL 0 K         0 FAIL 0 K           SHOCK (7) 1.00         1.02 0 1.00         SOUND (8) 46.20         44.53 0 44.76	Aevices / by Location         66 or or       Image: Constraint of the system	levices / by Location         66 or or         0	Alexics / by Location         66 or or

## 4.2.2. Adding Internet Speed test Check

Internet Speed test will check the performance of your internet connection. It performs it by doing a download and upload test against the closest and fastest server. 2 sensors will then be created: Download and Upload, both reporting as Mbps.

- Dashboard private use only. Use by a for-profit or government organization requires a paid license. I Sensors y Devices / by Location 🔟 Reports Alerts History 28 ₽ Settings + Add New Sens 0 ø DEW (4) FAILOK 13.0 OK 0 216 0 0 0.000.00 0.0 82 31.44
  26.62 220.00
  220.00 220.0 28.8
- 1. Access Menu and Click Add New Sensor.

#### 2. Select Network Connections.

📌 / Add New Sensor			
What would you like to monitor	?		
	•• 2	:	몲
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections
Routers, Switches, Printers,	•		
Network Devices	Servers (Windows & Linux)	Websites O	

3. Select Internet Speed test.



4. Select a country from which to check the speed of your internet connection.

Add New Speed Test Sensor				
Your Country				
United States of America				
Submit Back				

5. Once done, it should appear as one of the monitored checks on the Dashboard. 2 sensor checks will be created, Upload and Download.


# 4.2.3. Adding Domain Name Resolution Check

Each web server and any host connected to the internet has a unique IP address in textual form, translating it to an IP address. The system will perform a DNS resolution for the given domain name, record type and against the default or specified DNS server.

🏚 Dashboard	private use only. Use by a for-profit or government organization requires a paid license.					
Sensors	· Parise / Indexeter					
M Reports	y Devices 7 by	Location				
Alerts History		28			0	
₽ Settings		ок				
Add New Sensor		0	View Details		0	
		DEW (4) 13.0	@ 18.61 @ -	DNS (1) OK	© FAIL © OK	
		MOTION (4) 0.0	● 0.00 ● 0.00	PING (3) 82	<ul><li></li></ul>	
		TEMPERATURE (5)	• 31.44 • 26.62	VOLT (1) 220.0	<ul> <li></li></ul>	

1. Access Menu and Click Add New Sensor.

#### 2. Select Network Connections.

📌 / Add New Sensor	A / Add New Sensor							
What would you like to monitor?								
	••		뮮					
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections					
Routers, Switches, Printers,								
Network Devices	Servers (Windows & Linux)	Websites O						

3. Select Domain Name Resolution.



4. Provide the Settings for the DNS Sensor.

**Domain Name to Resolve** - Input the Domain name you intend to check. Only alphanumeric characters, hyphen and dot symbols are allowed.

**IP address the Domain should resolve to** - You may provide the specific IP address you want the domain to resolve. Or if left blank, it will resolve to any given IP.

DNS Record Type - Select on the dropdown menu for options : A, MX, CNAME, PTR or NS

**DNS Server** - Enter the IP address or domain name of the DNS server. Only alphanumeric characters, hyphen, and dot symbols are allowed.

**Sensor Name** - Provide a name of the sensor. This Sensor Name will be the name that should appear on the Dashboard.

Note: Only alphanumeric characters are allowed.

A	/ Add New Sensor / Network Sensor / DNS
	Id Now DNS Sensor
t t	IU INEW LING SELISOI nis sensor type, the system will perform a DNS resolution for the given domain name, record type and against the default or specified DNS se
)(	main Name to Resolve
	Domain to resolve
D	ily alpha numeric characters, hyphen and dot symbols are allowed
P	Address the Domain should resolve to
	Domain to resolve
e	ave blank to accept it to resolve to any given IP
וכ	IS Record Type A
D	IS Server
_	P address or domain name of the DNS server. Enter default
D	ily alpha numeric characters, hyphen and dot symbols are allowed
56	nsor Name
	Provide a name for this sensor

5. Once done, it should appear as one of the monitored checks on the Dashboard.

Sensors Grouped by Type	· / by Devices / by Location				Ξ
	66 ок	1 warning	<b>III</b>	0 DOWN	ts 🔱 IO Controls
View Details	O View Def	ails O	View Details	O	
AIRFLOW (3) 0.00 © 0.00 © 0.00	DEW POINT (7) <b>18.10</b> <sup>©</sup> 18.11 © 18.11	DNS (1) OK © FAIL © OK	DUST (3) 0.00 © 0.04 © 0.04	HUMIDITY (7) 70.00 © 70.04 © 70.04	DRY <sup>©</sup> WET © DRY
PING (9) 14.90	SHOCK (7) <b>1.00</b> <sup>●</sup> 1.02 ● 1.00	sound (3) 46.20 © 46.98 © 44.76	TEMPERATURE (28) 24.70 <sup>© 30.79</sup> ⊗ 22.93		

# 4.2.4. Adding Domain Name Expiry Check

For this sensor type, the software will check if the given domain name is about to expire or has expired. It starts warning if it is within 7 days of expiry. Multiple domain names can be entered (one per row).



1. Access Menu and Click Add New Sensor.

2. Select Network Connections.

♠ / Add New Sensor							
What would you like to monitor?							
	• 2		器				
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)					
Routers, Switches, Printers,		•					
Network Devices	Servers (Windows & Linux)	Websites O					

3. Select Domain Name Expiry.

Add New Network Sensor Sensors to monitor your network performance and connectivity.
<ul> <li>Ping</li> <li>Internet Speedtest</li> <li>Domain Name Resolution</li> <li>Domain Name Expiry</li> <li>TCP Port</li> </ul>
Submit Back

4. Provide the Domain Name and a Sensor Name for identification.

**Domain Names** - provide the IP address or the Domain Name you want to check. **Note: Multiple Domain Names can be entered (one per row)** 

Sensor Name - provide a specific name for the sensor for identification.

Add N	Iew Domain Name Expiry Sensor sor type, the software will check if the given domain name is about to expire or has expire
Domain I	names
192.16	3.9.14
www.go	ogle com
Submit	Back

5. Once done, it should appear as one of the monitored checks on the Dashboard.

		<b>6</b> ок	A		0 warning
View Details		٥	View Details		O
DNS (1) FAIL	<ul><li>FAIL</li><li>OK</li></ul>	DOMAIN-EXPIRY (1)	<ul> <li>♥ 0.0</li> <li>● 0.0</li> </ul>	DOWNLOAD (1)	<ul><li></li></ul>
UPLOAD (1)	<ul><li>♥ 0.5</li><li>● 0.5</li></ul>				

# 4.2.5. Adding TCP Port Check

This sensor type will check if a server responds on a specified TCP port.

1. Access Menu and Click Add New Sensor.



#### 2. Select Network Connections.

♠ / Add New Sensor							
What would you like to monitor?							
		• • ਦ				쁆	
InfraSensing Sensors	Ø	EST (Covid-19) kits	Ø	3rd Party Sensors (SNMP)	٥	Network Connections	0
Routers, S	Switches, Printers,	••					
Network Devices	0	Servers (Windows & Linux)	٥	Websites	0		

3. Select TCP Port.

Add New Network Sensor						
Sensors to monitor your network performance and connectivity.						
<ul> <li>Ping</li> <li>Internet Speedtest</li> <li>Domain Name Resolution</li> <li>Domain Name Expiry</li> <li>TCP Port</li> </ul>						
Submit Back						

4. Provide the details for the TCP port check.

Domain Name or IP address - This is the server to test the port on.

Port Number to Test - Input the numeric port number.

dd New TCP Sensor					
nsor type, the system will check if a server responds on the specif	ied TCP po				
Name or IP Address					
r to test port on					
mber to test					
umeric port number					
it Back					

5. Once done, it should appear as one of the monitored checks on the Dashboard.

1		2 DOWN	G 🔥 🗛	lerts	😃 IO Controls
View Details		Ð			
DRY	© WET © DRY	PING (2) 345	<ul><li></li></ul>	FAIL	⊕ Fail ⊛ OK

# 4.3. Adding Checks for Network Devices (Routers, Switches, Printers)

This gives you option to monitor any network devices on your network. Such as Routers, Switches, Printers, etc.

## 4.3.1. Adding Network Devices via Ping Check

For this sensor type, the system will perform a PING check to the remote IP and measure its response time in ms (milliseconds).

- Dashboard private use only. Use by a for-profit or government organization requires a paid license. I Sensors y Devices / by Location M Reports Alerts History 28 & Settings + Add New 0 View Details o ⊕ 18.61 ⊕ -FAILOK 13.0 OK 0.000.00 ③ 216 ④ 0 0.0 82 31.4426.62 220.00220.00 28.8
- 1. Access Menu and Click Add New Sensor.

#### 2. Select Network Devices.

★ / Add New Sensor							
What would you like to monitor?							
	••		<b>8</b>				
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections				
Routers, Switches, Printers,							
Network Devices O	Servers (Windows & Linux)	Websites O					

3. Select PING.



4. Input the Remote Server IP address or Domain Name you want to check.

🔒 / Add New S	ensor / Network Sensor / PING
Add New	PING Sensor
For this sensor type	e, the system will perform a PING check to the remote IP and measure its response time in ms (milliseconds).
Remote Server	IP Address or Domain Name
www.google.co	m
Submit Ba	ck

5. You can then provide a Sensor Name and link it to a specific device or group.

Sensor Name - Provide a name for the sensor. Note: Only alpha numeric characters are allowed for the name of the sensor.

**Device** - You can select from the drop-down option of which device you want to group the sensor.

**Group** - You can select from a group name from the drop-down options or you can add a new group.

↑ Add New Sensor / Sensor Name					
Sensor Name					
Provide a name for your new sensor. You can also link it to a device and group.					
Sensor Name					
Ping device test					
Device					
Demo					
Group					
Add a new group					
Submit Back					

## 4.3.2. Adding Network Devices via TCP Port Check

For this sensor type, the system will check if a server responds to the specified TCP port.

1. Access Menu and Click Add New Sensor.



#### 2. Select Network Devices.

↑ Add New Sensor								
What would you like to monitor?								
	•• 2				윰			
InfraSensing Sensors	EST (Covid-19) kits	0	3rd Party Sensors (SNMP)	٥	Network Connections	0		
Routers, Switches, Printers,								
Network Devices O	Servers (Windows & Linux)	٥	Websites	٥				

3. Select TCP Port.



4. Input the Domain Name or IP address and the Port Number to test.

**Domain Name or IP address** - Server address to test the port on. **Note - Only alpha numeric characters, hyphens and dot symbols are allowed.** 

**Port Number to Test** - Numeric port number from which to test the server.

Add New Sensor / Network Sensor / TCP						
Add New TCP Sensor For this sensor type, the system will check if a server responds on the specified TCP port.						
Domain Name or IP Address						
Server to test port on						
Only alpha numeric characters, hyphen and dot symbols are allowed						
Port Number to test						
The numeric port number						
Submit Back						

5. You can then provide a Sensor Name and link it to a specific device or group.

Sensor Name - Provide a name for the sensor.

Note: Only alpha numeric characters are allowed for the name of the sensor.

**Device** - You can select from the drop-down option of which device you want to group the sensor.

**Group** - You can select from a group name from the drop-down options or you can add a new group.

Sensor Name Provide a name for your new sensor. You can also link it to a device and group.
Sensor Name
TCP check on port 25
Device 192.168.9.33
Group
Select a Group
Submit Back

# 4.3.3. Adding Network Devices via SNMP Check

The system will scan your device using SNMP and detect any numeric values.

1. Access Menu and Click Add New Sensor.



#### 2. Select Network Devices.

↑ / Add New Sensor								
What would you like to monitor?								
	•• 2				물			
InfraSensing Sensors	EST (Covid-19) kits		3rd Party Sensors (SNMP)		Network Connections	0		
Posters, Switcher, Pristers,								
Network Devices O	Servers (Windows & Linux)		Websites O					

3. Select SNMP.



4. Input the IP address and the SNMP settings.

3rd Party IP address - IP address or Domain Name of the device

#### Use Default SNMP Connection Settings

If Yes, it uses the default setting.

If No, input the customized Community String and Port.

Add New Numeric SNMP Sensor The system will scan your device using SNMP and detect any numeric values.					
3rd Party IP Address as shown on the OLED display					
192.168.9.33					
Use Default SNMP Connection Settings yes  no, use custom settings Community String					
public					
Port					
161					
Submit Back					

5. You can provide a sensor name and select which OID or sensor type to monitor.

canned Device lowing numeric values were found on the system. Click the checkbox if you want a sensor to be monitored. Sensor List						
Monitor	Sensor Name	OID	Sensor Type	Value		
•		1.3.6.1.4.1.17095.11.1.2.0	Select the sensor type	0.96		
		1.3.6.1.4.1.17095.11.13.2.0	Select the sensor type	1.88		
×	Sound OID	1.3.6.1.4.1.17095.11.22.2.0	Select the sensor type •	42.14		
		1.3.6.1.4.1.17095.11.7.2.0	Select the sensor type	0.03		
		1.3.6.1.4.1.17095.3.2.0	Select the sensor type	30.11		
		1.3.6.1.4.1.17095.3.6.0	Select the sensor type	1000.00		
		1.3.6.1.4.1.17095.5.1.6.0	Select the sensor type	0		

# 4.4. Adding Checks for Servers (Windows & Linux)

You can have sensors to monitor your network performance and connectivity.

#### Installing the Windows Agent on a Windows Remote System

- a. Download the Windows Agent from the link <u>https://ServersCheck.com/support/downloads.asp</u>
- b. Run the windowsagent.exe and Install. You need to have administrative privilege on the system you will install the agent.



c. Accept the License Agreement. And finish the installation.

B	Setup	- ServersCheck Windows Agent 🛛 – 🗖 📉 🗙
Ð	-	Completing the ServersCheck Windows Agent Setup Wizard Setup has finished installing ServersCheck Windows Agent on your computer. Click Finish to exit Setup.
		Finish

d. Go to Task Manager and Run the ServersCheck Windows Agent to run the service on the background.

🛛 🗛 Task Manager 🚽 🗖 🗙							
<u>File Options View</u>							
Processes Performance App history Startup Users Details Services							
Name	PID	Description	Status	Group	^		
🔍 SamSs	736	Security Accounts Manager	Running				
🔍 SCardSvr		Smart Card	Stopped	LocalServiceA			
🔍 ScDeviceEnum		Smart Card Device Enumeration	Stopped	LocalSystemN			
🔍 Schedule	360	Task Scheduler	Running	netsvcs			
SCPolicySvc		Smart Card Removal Policy	Stopped	netsvcs			
🧟 seclogon		Secondary Logon	Stopped	netsvcs			
🔍 SENS	360	System Event Notification Service	Running	netsvcs			
🤹 SensrSvc		Sensor Monitoring Service	Stopped	LocalServiceA			
ServersCheck	4732	ServersCheck Monitoring Service	Running				
ServersCheck Configuration 2964		ServersCheck WebServer Service	Running				
ServersCheckWindowsAgent	1840	ServersCheck Windows Agent	Running				
🔍 SessionEnv		Remote Desktop Configuration	Stopped	netsvcs			
SharedAccess	360	Internet Connection Sharing (ICS)	Running	netsvcs			
Challel M/Detection	260	Shall Hardware Detection	Pupping	notovec			

#### Installing the Linux Agent on a Linux Remote System

- a. Download the Linux Agent from the link https://ServersCheck.com/support/downloads.asp
- b. Unzip the linuxsagent.zip file.



- c. You can change the port and default password in conf.cfg file. Default Port - 30711 Default Password - passServersCheck
- d. Compile the ServersCheck.c file.
- e. Linux Agent should run as a service on the background.

# 4.4.1. Adding Checks for Windows Servers

This check type requires the free Windows Agent to be installed on the remote system being monitored. The Windows Agent can be downloaded from this link https://ServersCheck.com/support/downloads.asp

The check will monitor CPU, Memory, Disk Space, Processes, Services or Event Logs.

- 🚯 Dashboard private use only. Use by a for-profit or government organization requires a paid license I Sensors y Devices / by Location M Reports Alerts History 28 0 👂 Settings Add New S Ø Ð ⊕ 18.61 ⊛ -FAILOK 13.0 OK ② 216
  ③ 0 ⑦ 0.00⑧ 0.00 0.0 82 31.4426.62 220.00
  220.00 28.8 220.0
- 1. Access Menu and Click Add New Sensor.

2. Select Servers.

🕈 / Add New Sensor							
What would you like to monitor?							
	• • 2		踞				
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections				
Routers, Switches, Printers,		•					
Network Devices	Servers (Windows & Linux)	Websites O					

3. Select Windows Servers.



4. Input the parameters you want to monitor for the Windows Server.

Domain Name or IP Address of Windows Server - Server to monitor. Agent Port Number - Numeric Port number you want to monitor. Default Port - 30711 Agent Password - default is pass ServersCheck Metric - You can select from the drop down options for the items you will monitor.

- \* CPU Load in %
- \* Free Memory in %
- \* Free Diskspace in % (lowest of all disks returned)
- \* Windows Services
- \* Windows Processes
- \* Event Log

s check type requires the free Windows Agent to be installed on the remote system being monitored. Download the agent			
check will monitor CPU, Me	mory, Disk Space, Processes, Services or Event Logs.		
omain Name or IP Address	s of Windows Server		
Server to monitor			
gent Port Number			
30711			
Igent Password			
The default agent password			
Netric			
Free Diskspace in % (lowe	st of all disks returned)		
CPU load in %			
Free Memory in %			
Free Diskspace in % (lowes	st of all disks returned)		
Windows Services			
Mr. J. D.			
Windows Processes			

5. You can then provide a Sensor Name and link it to a specific device or group.

Sensor Name - Provide a name for the sensor.

Note: Only alpha numeric characters are allowed for the name of the sensor.

**Device** - You can select from the drop-down option of which device you want to group the sensor.

**Group** - You can select from a group name from the drop-down options or you can add a new group.

Sensor	Sensor Name		
rovide a name	for your new sensor. You can also link it to a device and group.		
Sensor Name	2		
DISK-SPAC	E of 192.168.9.33		
Device			
Demo			
Group			
Select a G	roup		
Submit	Back		

# 4.4.2. Adding Checks for Linux Servers

This check type requires the free Linux Agent to be installed on the remote system being monitored.

The Linux Agent can be downloaded from this link https://ServersCheck.com/support/downloads.asp

The check will monitor CPU, Memory, Disk Space or Processes state.

1. Access Menu and Click Add New Sensor.



2. Select Servers.

↑ Add New Sensor					
What would you like to monitor?					
	•• ਦ		묾		
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections		
Routers, Switches, Printers,					
Network Devices	Servers (Windows & Linux)	Websites O			

3. Select Linux Servers.



4. Input the parameters you want to monitor for the Linux Server.

Domain Name or IP Address of Windows Server - Server to monitor. Agent Port Number - Numeric Port number you want to monitor. Agent Password - default is pass ServersCheck Metric - You can select from the drop down options for the items you will monitor.

- \* CPU Load in %
- \* Free Memory in %
- \* Free Diskspace in % (lowest of all disks returned)
- \* Linux Processes

Add New Linux Agent Sensor his check type requires the free Linux Agent to be installed on the remote system being monitored. Download the agent, he check will monitor CPU, Memory, Disk Space or Processes state.	
Domain Name or IP Address of Linux Server	
192.168.9.14	
Agent Port Number	
30711	
Agent Password	
The default agent password	
Metric	
CPU load in %	
CPU load in %	
Free Memory in %	
Free Diskspace in % (lowest of all disks returned)	
LINUX 1 10003003	

5. You can then provide a Sensor Name and link it to a specific device or group.

#### **Sensor Name** - Provide a name for the sensor.

Note: Only alpha numeric characters are allowed for the name of the sensor.

**Device** - You can select from the drop-down option of which device you want to group the sensor.

**Group** - You can select from a group name from the drop-down options or you can add a new group.

Sensor Name			
Provide a name for your new sensor. You can also link it to a device and group.			
Sensor Name			
CPU of 192.168.9.14			
Device			
Demo			
Group			
None			
Submit Back			

# 4.4.3. Adding Checks for System Uptime (SNMP)

This check type connects via SNMP to a device and queries its uptime in seconds.

1. Access Menu and Click Add New Sensor.



2. Select Servers.

↑ / Add New Sensor				
What would you like to monitor?				
	••		**	
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections	
Routers, Switches, Printers,		•		
Network Devices	Servers (Windows & Linux)	Websites O		

3. Select System Uptime (SNMP).



4. Input the SNMP settings of the IP address you wish to query.

**IP Address** - The IP address of the Server you wish to query via SNMP. **Note : Only Alpha numeric characters, hyphen and dot symbols are allowed.** 

**Community String** - the handshake for SNMP.

**Port** - SNMP Port Typical SNMP port is 161

🔒 / Add New Se	nsor / Network Sensor / Sensor XY
Add New	Uptime Sensor
This check type conn	ects via SNMP to a device and queries its uptime in seconds.
IP Address	
192.168.9.33	
Community Strin	g
public	
Port	
161	
Submit Back	ĸ

5. You can then provide a Sensor Name and link it to a specific device or group.

#### Sensor Name - Provide a name for the sensor.

Note: Only alpha numeric characters are allowed for the name of the sensor.

**Device** - You can select from the drop-down option of which device you want to group the sensor.

**Group** - You can select from a group name from the drop-down options or you can add a new group.

rovide a name for your new sensor. You can also link it to a device and grou
Sensor Name
Uptime in sec of 192.168.9.33
Device
Demo
×
Group
None
Submit Back

# 4.4.4. Adding Checks for SNMP Numeric

The system will scan your device using SNMP and detect any numeric values.

1. Access Menu and Click Add New Sensor.



2. Select Servers.

↑ Add New Sensor					
What would you like to monitor?					
	•• 2	:	윰		
InfraSensing Sensors	EDI (GOND-19) AND	3rd Party Sensons (SNMP)	Network Connections		
Routers, Switches, Piriters,		٢			
Network Devices	Servers (Windows & Linux)	Websites O			

3. Select SNMP Numeric.

Add New Servers & Devices Sensor ensors to monitor your network performance and connectivity.		
<ul> <li>Windows Servers (CPU, Memory, Disk Space, Services, Processes, Event Log</li> <li>Linux Servers (CPU, Memory, Disk Space, Process)</li> <li>System Uptime (SNMP)</li> <li>SNMP Numeric</li> </ul>		
Submit Back		

4. Input the SNMP settings of system you want to scan.

3rd Party IP address - IP address or Domain Name of the device

#### Use Default SNMP Connection Settings

If Yes, it uses the default setting.

If No, input the customized Community String and Port.

٩d	New Numeric SNMP Sensor
he syste	em will scan your device using SNMP and detect any numeric values.
3rd Pa	arty IP Address as shown on the OLED display
192.	168.9.33
Use D	efault SNMP Connection Settings
yes	no, use custom settings
Comm	nunity String
publ	ic
Port	
161	
Sub	mit Back
Sub	Dack

5. You can provide a sensor name and select which OID or sensor type to monitor.

canned Device owing numeric values were found on the system. Click the checkbox if you want a sensor to be monitored.					
Monitor	Sensor Name	OID	Sensor Type	Value	
		1.3.6.1.4.1.17095.11.1.2.0	Select the sensor type 🔹	0.96	
		1.3.6.1.4.1.17095.11.13.2.0	Select the sensor type 🔹	1.88	
ø	Sound OID	1.3.6.1.4.1.17095.11.22.2.0	Select the sensor type	42.14	
		1.3.6.1.4.1.17095.11.7.2.0	Select the sensor type	0.03	
		1.3.6.1.4.1.17095.3.2.0	Select the sensor type 🔹	30.11	
		1.3.6.1.4.1.17095.3.6.0	Select the sensor type 🔹	1000.00	
		1.3.6.1.4.1.17095.5.1.6.0	Select the sensor type	0	

# 4.5. Adding Checks for Websites

You can have sensors to monitor your websites and web applications.

# 4.5.1. Adding SSL Certificate Validity Check

For this sensor type, the system will load the certificate for the given URL and checks its validity. If it expires within 45 days or it is expired, then an alert will be triggered.

1. Access Menu and Click Add New Sensor.

Dashboard	private use only. Use	e by a for-profit or gove	rnment organization requ	ires a paid license.	
B Sensors	v Devices / by Lor	ation			
₫ Reports	,				
Alerts History		28			0
₽ Settings		ок			
Add New Sensor		0	View Details		0
				(	
		13.0	⊕ 18.61 @ -		FAIL     OK
			<b>@</b> 0.00	PING (3)	<b>@</b> 216
		0.0	@ 0.00	82	<b>0</b> 0
		TEMPERATURE (5)		VOLT (1)	
		200	③ 31.44	220.0	<b>220.00</b>

2. Select Websites.

↑ / Add New Sensor What would you like to monito	r?		
	•• ऌ		器
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections
Routers, Switches, Printers,			
Network Devices O	Servers (Windows & Linux)	Websites O	

3. Select SSL Certificate Validity.

4. Provide the IP address or Domain Name you want to check.



5. Provide a Sensor Name and link it to a device or group.

Sensor Name - Provide a name for the sensor.

**Device** - you may select to any device from the drop down list you have created.

**Group** - you may add to a certain group or you can add a new group.

Sensor Name	
Provide a na	ime for this sensor
Device	
Select a De	vice
Please select	an item in the list.
Group	
Select a Gr	oup

# 4.5.2. Adding HTTP Status Code Check

For this sensor type, the system will load the URL. The system checks the HTTP status code being returned and compares it to the expected status code.

1. Access Menu and Click Add New Sensor.



#### 2. Select Websites.

📌 / Add New Sensor						
What would you like to monito	r?					
	• • 0		:		윰	
InfraSensing Sensors	EST (Covid-19) kits	۱,	3rd Party Sensors (SNMP)		Network Connections	٥
Routers, Switches, Printers,	**		•			
Network Devices	Servers (Windows & Linux)	l	Websites O	J		

3. Select HTTP Status Code.



4. Provide the URL to be checked and select an Expected Status Code from the drop down list.

**URL** - Input the URL you want to check.

**Expected Status Code** - select a status code from the drop down list.

8	
JRL	
pected Status Code	
Select a status code	*
Select a status code	
200 OK	
301 Moved Permanently	
404 Not Found	
500 Internal Server Error	
100 Continue	
101 Switching Protocols	
102 Processing	
200 OK	
201 Greated	
202 New authority laferrantian	
203 Non-authoritative Information	
204 No Content	
200 Reset Content	
200 Partial Content	
207 Multi-Status	
208 Aiready Reported	
300 Multiple Choices	
301 Moved Permanently	_

# 4.5.3. Adding HTTP Header Check

For this sensor type, the system will connect to the provided URL and load the HTTP Headers returned by the webserver. It will then see if the provided text can be found in the headers.



1. Access Menu and Click Add New Sensor.

#### 2. Select Websites.

📌 / Add New Sensor			
What would you like to monitor	?		
	•• ਦ	:	융
InfraSensing Sensors	EST (Covid-19) kits	3rd Party Sensors (SNMP)	Network Connections
Pouters, Switches, Printers,		•	
Network Devices	Servers (Windows & Linux)	Websites O	

3. Select HTTP Header.



4. Provide the information needed to check for the HTTP Header.

**URL** - Input the URL you want to check.

Text to Find in HTTP Header - Type in the text the system should find in the URL. Alert when - choose between if above text is found or if above text is not found. Username - Optional, if the website provided prompts for one. Password - Optional, password for the username.

d New HTTP-HEADER Sensor
is sensor type, the system will connect to the provided URL and load the HTTP Headers returned by the webserver. It will then see if the provided text can be found in the header
L
ttps://www.yahoo.com
t to find in HTTP headers
est
rt when
he above text IS found
ername
ptional: Username to connect to website if your URL prompts for one
sword
ptional: Password for the username
ubmit Back

5. Provide a Sensor Name and link it to a device or group.

**Sensor Name** - Provide a name for the sensor.

**Device** - you may select to any device from the drop down list you have created. **Group** - you may add to a certain group or you can add a new group.

Add New Sensor / Sensor Name	
Sensor Name	
Provide a name for your new sensor. You can also link it to a device and grou	up.
Sensor Name	
HTTP Header for yahoo	
Device	
Demo	
Group	
None	
Submit Back	

## 4.5.4. Adding URL Contains Check

For this sensor type, the system will load the URL. It will scan the page to see if the given text can be found or not.



1. Access Menu and Click Add New Sensor.

#### 2. Select Websites.

🔶 / Add New Sensor				
What would you like	e to monitor?			
	•• ह	:	물	
InfraSensing Sensors	EST (Covid-19) kits	O 3rd Party Sensors (SNMP)	Network Connect	tions O
Routers, s	Switches, Printers,			
Network Devices	Servers (Windows & Linu	) Vebsites	٥	

3. Select URL Contains.



4. Provide the information needed to check for the HTTP Header.

**URL** - Input the URL you want to check.

**Text to Find in Web Page** - Type in the text the system should find in the URL. **Alert when** - choose between if above text is found or if above text is not found. **Username** - Optional, if the website provided prompts for one. **Password** - Optional, password for the username.

dd N	lew HTTP-STATUS Sensor
or this sens	sor type, the system will load the URL. It will scan the page to see if the given text can be found or no
URL	
https://v	www.serverscheck.com
Text to fi	nd in web page
sensors	4
Alert whe	en la
the abo	ove text IS found
Usernam	e
Optiona	I: Username to connect to website if your URL prompts for one
Password	d
Optiona	II: Password for the username
Submit	Back

5. Provide a Sensor Name and link it to a device or group.

**Sensor Name** - Provide a name for the sensor. **Device** - you may select to any device from the drop down list you have created. **Group** - you may add to a certain group or you can add a new group.

ensor	Name or your new sensor. You can also link it to a de	evice and group.
Sensor Name		
URL contain	s for serverscheck.com	
Dovino		
Demo		
Group		
None		
Submit	Back	

# 4.5.5. Adding URL Contains Check

For this sensor type, the system will download the webpage (HTML content only). Then it will report back the download time in ms.

- 🙆 Dashboard private use only. Use by a for-profit or government organization requires a paid license I Sensors y Devices / by Location 🔟 Reports Alerts History ✤ Settings Add New Sens Ø DNS (1) ⊕ 18.61 ⊕ -FAILOK 13.0 MOTION (4) ② 216
  ③ 0 O.00O.00 0.0 82 ③ 31.44④ 26.62 220.00220.00 28.8
- 1. Access Menu and Click Add New Sensor.

2. Select Websites.

📌 / Add New Sensor							
What would you	like to monitor	?					
		• •		:		풍	
InfraSensing Sensors	0	EST (Covid-19) kits	0	3rd Party Sensors (SNMP)	0	Network Connections	٥
奈   Ģ·····	ters, Switches, Printers,						
Network Devices	٥	Servers (Windows & Linux)	0	Websites	•		

3. Select Web page download time.

Add New Website Sensor Sensors to monitor your websites and web applications.	
<ul> <li>SSL Certificate Validity</li> <li>HTTP Status Code</li> <li>HTTP Header</li> <li>URL Contains</li> <li>Web page download time</li> </ul>	
Submit Back	

4. Provide the URL of the page you want to check the download time.

**URL** - Input the URL of the page.

**Username** - Optional, if the website provided prompts for one. **Password** - Optional, password for the username.

URL	
https://www.se	rverscheck.com
Username	
Optional: User	name to connect to website if your URL prompts for one
Password	
Optional: Pass	word for the username

5. Provide a Sensor Name and link it to a device or group.

Sensor Name - Provide a name for the sensor.

**Device** - you may select to any device from the drop down list you have created. **Group** - you may add to a certain group or you can add a new group.

Senso rovide a na	or Name me for your new sensor. You can also link it to a device and group.
Sensor N	ame
Servers	check page download time
Device 192.16	8.9.33
None	
Submit	Back

# **5. Generating Reports**

ServersCheck enables users to not only create custom graphs, but also schedule them to be refreshed at whatever rate needed.

Two ways to generate reports:

- by Sensor Names - by Sensor Types

# 5.1. Generating By Sensor Names

1. Access Menu and go to Reports.



2. Click **Create Report** and select **Add Sensors by name to the report**. Type in the name of the sensor you want to create a report.

Note: You may input multiple sensor names to be included in your report.

9				
1 Reports / Create New Repo	t			
Create a report To create a report you first need to se	ect the sensors or sensor types to be in	ncluded in the report.		
1. Select the sensors or sensor Add sensors by name to the Add sensors by type to the re	ypes to be included in your report eport port			
Internal Temperature × Der	Point x Airflow x			
Next >>				

3. Select a Time Range for the report.

You may pre select time range for the report by:

- Past 4h
- Past 24h
- Yesterday
- Last 7 days
- Last 30 days
- This Month
- Custom Time Range

ports / Create New Report
eed to specify the time range that the reports needs to be cover.
range ect a time frame
ect a time frame
t 24h terday
t 7 Days
; Month

4. Click Generate Report. This will show you a graphical data of the sensors you've selected for reporting.

Reports / Report							
sors Report							Save & Sche
08/2017 7:08 AM	Ħ	09/09/2017 7:08 AM		H	Plot Graph		
📕 Internal Temperaturo data 📕 Deve Foint data 📕 Arflow data							(
2 2 Junity and lank				23.68			Q 2104 01
*****		• • • • • • •	· · · · · ·	17.59			
n 	• • • • •						• • • •
1							
3.	06.25	5040	80.45	5 Eep 84, 2017	09.50	07.00	07:00
							00

The image can be saved by clicking the arrow on the upper right hand side.

The image can be downloaded as PNG, JPG, SVG or PDF.

Or the output be saved as CSV, XLSX, or JSON.

You may also provide Annotations or you can directly Print it.

#### 5. Saving & scheduling.

•			
A / Reports / Save & Schedule Report			
ave Report			
in the form below to save the report. You	can also have it automatically ema	iled to you.	
Title of your report			
Type the name of your report			
Report scheduling			
Schedule report to be sent periodically Run only when needed	ria email		
Email to			
Email addresses to send report to			
Send report every			
hours			
Start sending report on			
09/06/2017 1:28 PM			
Save Report			
our report			

Title of your Report - Specify the name of your report.

#### **Report Scheduling:**

: schedule report to be sent periodically via email.

Email to - Specify the email address you want the report to be sent. Send report every - Specify the number of hours or days for the report to be automatically be sent.

Start sending report on - You can select a date and time for when the report starts sending.

: Run only when needed - Will generate the report one time or only when you manually generate it.

# 5.2. Generating By Sensor Types

1. Access Menu and go to Reports



2. Click **Create Report** and select **Add Sensors by type to the report**. Select a sensor type from the drop down list.


3. Select a Time Range for the report.

You may pre select time range for the report by:

- Past 4h
- Past 24h
- Yesterday
- Last 7 days
- Last 30 days
- This Month
- Custom Time Range

9	
A	/ Reports / Create New Report
Cr	eate a report
Now	
	ou need to specify the time range that the reports needs to be cover.
2	
۷.	ime range
2.	ime range
2.	Select a time frame
2.	Select a time frame
2.	Select a time frame Select a time frame Past 4h
2.	Select a time frame Select a time frame Past 4h Past 24h
2.	Ime range Select a time frame Past 4h Past 24h Yesterday
2.	Select a time frame Select a time frame Past 4h Past 24h Yesterday Last 7 Days
2.	Select a time frame Select a time frame Past 4h Past 24h Yesterday Last 7 Days Last 30 Days
2.	Select a time frame Select a time frame Past 4h Past 24h Yesterday Last 7 Days Last 30 Days This Month

4. Click Generate Report. This will show you a graphical data of all sensors that has the same Sensor Type. If you have multiple sensors with the same type, it should show on the graph.



The image can be saved by clicking the arrow on the upper right hand side.

The image can be downloaded as PNG, JPG, SVG or PDF.

Or the output be saved as CSV, XLSX, or JSON.

You may also provide Annotations or you can directly Print it.

### 5. Saving & scheduling

🕈 / Reports	/ Save & Schedule Report
ave Re	eport
in the form be	alow to save the report. You can also have it automatically emailed to you.
Title of your i	report
Humidity Re	aport
Report sched	Juling
<ul> <li>Schedule re</li> <li>Run only will</li> </ul>	aport to be sent periodically via email hen needed
Email to	
Email addre	isses to send report to
Send report e	every
hours	
Start sending	j report on
09/06/2017	1:47 PM
Sam Bonor	
Save Repor	

Title of your Report - Specify the name of your report.

#### **Report Scheduling:**

: schedule report to be sent periodically via email.

Email to - Specify the email address you want the report to be sent. Send report every - Specify the number of hours or days for the report to be automatically be sent.

Start sending report on - You can select a date and time for when the report starts sending.

: Run only when needed - Will generate the report one time or only when you manually generate it.

0							
n Dashboard							
<mark>⊞ Sensors</mark>	_				10		_
Lill Reports	66		1		0	👃 Alei	rts 🙂 IO
Alerts History	ок		WARNING		DOWN		
✗ Settings	Vie	w Deta	ils O	View Details	Ð		
+ Add New Sensor							Search:
	Status		Name		Last Value		Last Check
	ОК		Airflow		0.00		2 days ago
	ОК		2Airflow1		0.00		2 days ago
	ОК		Airflow1		0.00		2 days ago
	ОК		Dew Point		18. <mark>1</mark> 1		2 days ago
	ОК		3Dew Point1		18.11		2 days ago

## 6. Alerts History

Alerts would show on a first in first out basis.

1. Click Menu and go to Alerts History.



2. This would open up a window that shows all historical alerts on any sensors/checks you have. This gives data of the time when the alerts occurred, the Sensor Name, the event type, the actual event that occurred, and the info.

ਦੇ					
🔶 / Alerts Hist	ory				
Alerts Hi	story				
Show 10 🔻	entries				Search:
ID 👻	Time 0	Sensor Name \$	Event Type	Event 0	Info \$
316	8 hours ago	Internal Temperature	Status Change	OK to WARNING	
315	2 days ago	Internal Temperature	Status Change	OK to WARNING	
314	2 days ago	Flooding1	Status Change	DOWN to OK	No numeric value returned (value was: -)
313	2 days ago	Flooding1	Status Change	OK to DOWN	No numeric value returned (value was: -)
312	3 days ago	Sound Sense	Status Change	DOWN to OK	
311	3 days ago	Sound Sense	Status Change	OK to DOWN	
310	3 days ago	Internal Temperature	Status Change	OK to WARNING	
309	4 days ago	Internal Temperature	Status Change	OK to WARNING	
308	4 days ago	Sound Sense	Status Change	OK to DOWN	No value returned
307	4 days ago	DNS resolution serverscheck.com	Status Change	OK to DOWN	Could not resolve host serverscheck.com
Showing 1 to 10 of	100 entries				Previous 1 2 3 4 5 10 Next

Clicking on each of the Sensor Name would open up the graphical data of the Sensor.

# 7. Adding Security to your Monitoring Software.

This section is for more advanced users to allow the software to be run on https instead of the default port of 1272.

Default access to software is <u>http://192.x.x.x:1272</u> (IP is dependent on the address the Appliance gets)

1. First block the incoming connection on TCP port 1272 via Windows firewall.

\* To access the windows firewall open any folder on the address field type in Control Panel\System and Security\Windows Firewall.



\* Choose "Advance settings" on the left panel.



\* Under firewall Advance Settings Highlight Inbound Rules.



\* Click on Action and then New Rule.



\* On the next screen choose "PORT".

🔗 New Inbound Rule Wiza	ırd	>
Rule Type		
Select the type of firewall rule to	create.	
Steps:		
Rule Type	What type of rule would you like to create?	
Protocol and Ports		
Action		
Profile	Rule that controls connections for a program.	
Name	Port	
	Rule that controls connections for a TCP or UDP port.	
	O Predefined:	
	AllJoyn Router	
	Rule that controls connections for a Windows experience.	
	○ Custom	
	Custom rule.	
	< Back Next > Cano	əl

\* Then "TCP" and then on the option below choose Specific Local Ports and then type in 1272 and click next.

Province and the Wizard Rule Wizard			$\times$
Protocol and Ports			
Specify the protocols and ports to	which this rule applies.		
Steps:			
Rule Type	Does this rule apply to TCP or UE	DP?	
Protocol and Ports	TCP		
Action	⊖ UDP		
Profile			
Name	Does this rule apply to all local po	orts or specific local ports?	
	All local ports		
	Specific local ports:	1272	
		Example: 80, 443, 5000-5010	
		< Back Next > Cancel	

\* Choose Block the Connection.

0 0 0

Prew Inbound Rule Wizard		×
Action		
Specify the action to be taken whe	n a connection matches the conditions specified in the rule.	
Steps:		
Rule Type	What action should be taken when a connection matches the specified conditions?	
Protocol and Ports		
Action	Allow the connection     This includes connections that are protected with IPeec as well as those are not	
Profile	-	
Name	Allow the connection if it is secure	
Name	This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Customize.  Block the connection	
	< Back Next > Cancel	

\* Put a check mark on all.

🔗 New Inbound Rule Wiza	ard	×
Profile		
Specify the profiles for which th	is rule applies.	
Steps:		
Rule Type	When does this rule apply?	
Protocol and Ports		
Action	Domain	
Profile	Applies when a computer is connected to its corporate domain.	
Name	✓ Private	
	Applies when a computer is connected to a private network location, such as a home or work place.	
	✓ Public	
	Applies when a computer is connected to a public network location.	
	< Back Next > Cancel	

\* Create a label and finish set up.

🔗 New Inbound Rule W	izard	×
Name		
Specify the name and descri	ption of this rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action		
Profile	Name:	
Name	Restricted Access	
	Description (optional):	
	Block for incomming connection to TCP 1272	
	< Back Finish Cancel	

After blocking the port 1272, users will no longer be able to access the software directly via port 1272. In which you will now need a reverse proxy server.

### 7.1. NGINX (reverse proxy server)

With the release of software version 15, we have integrated the NGINX technology into our software. NGINX is a web server, which can also be used as a reverse proxy, load balancer, mail proxy and HTTP cache. With NGINX, the security of the software has gone on to a higher level.

### 7.1.1. Configuring NGINX

You can access the configuration file on C:\Program Files (x86)\ServersCheck\_Monitoring\conf\nginx.conf

A default configuration is already made with the following feature

- website runs now on port 80 (no longer 1272)
- increased security as a lot of traffic filtering is done at the NGINX level
- static content is served by NGINX (better performance)
- ability to run it in SSL mode with custom certificates

NOTE: Advance users may configure NGINX at their own discretion, advance configuration is not supported. More information about NGINX here (<u>https://www.nginx.com/</u>)

### 7.2. Running the software on HTTPS mode

Advance users may apply certificates using NGINX by opening the configuration file then edit the server block as follows

By default it runs via http mode with the code " listen 80; "

To run HTTPS remove the # sign over the 3 lines mentioned below (HTTPS (SSL) mode on the configuration file).

listen 443 ssl; ssl\_certificate /conf/nginx.crt; ssl\_certificate\_key /conf/nginx.key;

Place your certificate and key in C:\Program Files (x86)\ServersCheck\_Monitoring\conf and then replace nginx with the name of the certificate.

Save your work, close all opened browsers, go to C:\Program Files (x86)\ServersCheck\_Monitoring and click on the NGINX application to apply your settings.

# 8. Running on Debug Mode

By running the software in debug mode we will be creating log files, log files will show the software activities and will help in resolving issues.

### 8.1. Steps to run in Debug Mode

1. Since the software folder is secured, lets create the file we require on your desktop, We do this by pressing the right click and then choosing the option "NEW" and then we click on "Text Document".



2. Next we have to rename the newly created document into "logging.on", initially after creating a file you can rename it right away otherwise hover your mouse over the file and then press right click, then choose "Rename". For comparison the file we created initially was named "New Text Document.txt" and we have to rename that into "logging.on".



3. After creating the file, copy or move it over to the directory path C:\Program Files (x86)\ServersCheck\_Monitoring\logs

•	C:\Pr	ogram Files (x86)\ServersCheck_M	Monitoring\logs		
		Name ^	Date modified	Туре	Size
:ess		access.log	9/21/2020 9:01 AM	Text Document	311,405 KB
		error.log	7/29/2020 11:21 AM	Text Document	22,438 KB
ads	R	🗹 🗋 logging.on	10/5/2020 9:55 AM	ON File	0 KB
ents	A	📄 nginx.pid	9/21/2020 9:02 AM	PID File	1 KB
	*				

- 4. Restart the computer and then re open the software.
- 5. Go back to the directory path C:\Program Files (x86)\ServersCheck\_Monitoring\logs, you will notice 3 text files created.

This PC > Local Disk (C:) > Program Files (x86) > ServersCheck_Monitoring > logs				
Name ^	Date modified	Туре	Size	
access.log	10/5/2020 9:42 AM	Text Document	350,124 KB	
error.log	7/29/2020 11:21 AM	Text Document	22,438 KB	
log_alerts.txt	10/5/2020 10:43 AM	Text Document	1 KB	
log_thread2.txt	10/5/2020 10:44 AM	Text Document	8 KB	
log_watcher.txt	10/5/2020 10:44 AM	Text Document	2 KB	
logging.on	10/5/2020 9:55 AM	ON File	0 KB	
nginx.pid	10/5/2020 10:36 AM	PID File	1 KB	

## 9. Support Forum

You will be redirected to our online community forum which is managed by our Engineers and from other users using ServersCheck products -

https://community.ServersCheck.com/categories/ServersCheck-monitoring-software



#### 1. Go

#### 2. You will be redirected to

<u>https://community.ServersCheck.com/categories/ServersCheck-monitoring-</u> <u>software</u> wherein you can create an account and post in the discussions in the forums.



3. Clicking Sign In will redirect you to <u>https://my.ServersCheck.com/</u>. You need to have a my.ServersCheck account for you to post a discussion.

★ / ServersCheck Care			
Buy Care			
Community Support	InfraSensing	ServersCheck	🖋 Warranty
Discuss your questions with fellow users	check support status for your 2 registered sensors	check support & upgrades status for your 1 monitoring software licenses	check warranty status for your 2 register sensors
moderated by ServersCheck engineers. Free products are moderated by the user community.			
access user forum	access sensor support	access software licenses & support	initiate RMA

#### Tips:

When submitting a support ticket regarding software issues it is best to give the log files along with the software version you are using.

For monitoring issues it is best to look at log\_thread2.txt, for alerting issues it is log\_alertst.txt and for general stability issues it is best to look at log\_watcher.txt.