## Agent Installation Instructions



## Purpose

This document describes how to install the Nagios Cross Platform Agent (NCPA) on Windows, Linux and Mac OS X. NCPA is intended to simplify and universalize agent-based monitoring across different operating systems.

## **Target Audience**

This document is intended for use by Nagios Administrators who wish to use NCPA to monitor servers. NCPA simplifies monitoring configurations and maintenance by allowing Nagios to monitor servers using the same agent regardless of platform.

## **NCPA** Installation Overview

This documentation covers installing NCPA using the ready built packages for the following platforms:

- Windows
  - <u>EXE Package</u>
- Linux
  - RHEL / CentOS / Oracle Linux
    - Nagios Repository
    - RPM Package
  - openSUSE / SUSE SLES / AIX
    - RPM Package
  - Ubuntu / Debian
    - DEB Package
- Mac OS X

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• DMG Package

You can also install NCPA from source by following the **<u>Building NCPA</u>** documentation.

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## Active vs Passive

NCPA can be used for both Active and Passive monitoring:

- Active = Nagios is responsible for performing the check on a schedule
- Passive = NCPA is responsible for submitting check results in Nagios

The NCPA installer may prompt you for settings for active and passive. Active is the most common method used. If you are not using passive monitoring then you do not need to configure those settings.

## **Downloading NCPA Packages**

Please visit the downloads page to obtain the relevant download package for your operating system (OS): <u>NCPA Downloads</u>

If you are installing NCPA on Linux then the steps below for each Linux distribution will show you how to download the package at the command line, you do not need to download it right now.

## Installing NCPA On Windows

The following instructions are for the graphical install of NCPA. If you wish to perform a silent installation please proceed to the <u>Silent Install</u> section.

Navigate to the location that the installer package was downloaded to and double-click the installer, this will bring up the Welcome screen.

Click Next to continue.



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The license agreement will be shown.

Click I Agree

The configuration screen for **Passive** checks will be shown.

The only setting that is required here is a **Token**. This is what your Nagios server will use to authenticate with NCPA.

The Bind IP of 0.0.0.0 means that NCPA will listen on all Ipv4 addresses on the Windows machine. The default port of 5693 is used.

Click **Next** to proceed.

The configuration screen for **Passive** checks will be shown. You will need to check the **Send passive checks over NRDP** box to enable passive checks. You will also need to provide the following NRDP settings:

## URL

This is the URL on your Nagios Host that accepts passive check results to be submitted.

Vagios Cross-Platform Agent (NCPA) Windows Version - 2.0.5	Nagios
License Agreement	
Nagios Software License Terms and Conditio	
PLEASE READ THIS AGREEMENT CAREFULL SOFTWARE. BY PURCHASING OR USING N. SIGNIFY YOUR ASSENT TO THIS AGREEMEN ENTITY, THEN YOU REPRESENT THAT YOU I	Y BEFORE PURCHASING OR USING NAGIOS AGIOS ENTERPRISES' SOFTWARE, YOU IT. IF YOU ARE ACTING ON BEHALF OF AN HAVE THE AUTHORITY TO ENTER INTO THIS IF YOU DO NO ACCEPT THE TERMS OF THIS ASE OR USE NAGIOS SOFTWARE.
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for the web GUI. These options are related t	cks via check_ncpa.py, and connection settings to the NCPA listener service.
API Configuration	
Token Str0ngT0k3n	
The token used for API access, active ch	ecks, and logging into the web GUI.
Listener Configuration	Advanced Listener Configuration
Bind IP 0.0.0.0	SSL Version TLSv1_2 V
Bind Port 5693	Log Level warning $\checkmark$
La Falanciana II C	
igios Enterprises, LLC	< Back Next > Cance
B	
Passive Configuration	
Nagios Cross-Platform Agent (NCPA) Windows Version - 2.0.5	Nagios
	200 CONTRACTOR (100 CONTRACTOR
Set configuration for the passive service. Th to Nagios via NRDP or other protocols in the	is service handles sending passive check result future.
to Nagios via NRDP or other protocols in the	future.
to Nagios via NRDP or other protocols in the NRDP Configuration	future. Advanced Passive Configuration
to Nagios via NRDP or other protocols in the NRDP Configuration	future. Advanced Passive Configuration Check Interval 300
to Nagios via NRDP or other protocols in the NRDP Configuration Send passive checks over NRDP URL http://10.25.5.12/nrdp/	future.     Advanced Passive Configuration       Check Interval     300       The default check interval in seconds. This is how often the
to Nagios via NRDP or other protocols in the NRDP Configuration Send passive checks over NRDP URL http://10.25.5.12/nrdp/ NRDP Token NRDP_T0k3n	future.         Advanced Passive Configuration         Check Interval       300         The default check interval in seconds. This is how often the passive checks will be sent.
to Nagios via NRDP or other protocols in the NRDP Configuration Send passive checks over NRDP URL http://10.25.5.12/nrdp/ NRDP Token NRDP_T0k3n	future.         Advanced Passive Configuration         Check Interval       300         The default check interval in seconds. This is how often the passive checks will be sent.

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## **NRDP** Token

This is the token you will be using when passing NCPA passive checks to Nagios for NRDP to accept the check. This is separate from the token that was provided for active checks.

The URL and NRDP token in Nagios XI are configured via **Admin > Check Transfers > Inbound Transfers**.

#### Hostname

The hostname that the passive checks belong to on the Nagios server.

Click **Next** to proceed.

Continuing with Passive checks, you will be presented with
the default passive service checks that will be executed and
send to your Nagios server. These can be changed if
required.

Click **Next** to proceed.

You will be presented with the install location. Change the destination folder if required.

Click the **Install** button to install NCPA.

lagios Cross-Platform Agent (NCPA) Windows Version - 2.0.5			Na	agio	
windows version - 2.0.5				-9.c	
Passive Check Definitions					
Configuration will be saved in [etc/ncpa.cfg.d You can leave it blank for no pre-setup check					m.
# Host check - This is to stop "pending check %HOSTNAME% _HOST_ = /system/agen		os			1
# Service checks %HOSTNAME%[CPU Usage = /cpu/percent %HOSTNAME%[Disk Usage = /disk/logical/C %HOSTNAME%[Swap Usage = /memory/ %HOSTNAME%[Memory Usage = /memory, %HOSTNAME%[Process Count = /processe	: [/used_percen apwarning 60 virtualwarning	twarning critical 8 80criti	g 80cr 30 cal 90		
gios Enterprises, LLC					
	< Back	Next	:>	Can	cel
NCPA Setup			-		
			-		
			Na	agio	05
hoose Install Location Choose the folder in which to install NCPA.		ferent fol	_	-	
hoose Install Location Choose the folder in which to install NCPA.		ferent fol	_	-	
hoose the folder in which to install NCPA. Choose the folder in which to install NCPA. Setup will install NCPA in the following folder. select another folder. Click Install to start the		ferent fol	der, click	-	
hoose Install Location Choose the folder in which to install NCPA. Setup will install NCPA in the following folder. select another folder. Click Install to start the Destination Folder C:\Program Files (x86)\Nagios\NCPA		ferent fol	der, click	Browse a	
hoose Install Location Choose the folder in which to install NCPA. Setup will install NCPA in the following folder. select another folder. Click Install to start the Destination Folder		ferent fol	der, click	Browse a	
Setup will install NCPA in the following folder. select another folder. Click Install to start the Destination Folder C:\Program Files (x86)\Nagios\NCPA Space required: 17.2MB		ferent fol	der, click	Browse a	

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Wait while NCPA is installed and configured.

**NCPA** 

Click Finish once NCPA has been installed.

NCPA Setup		- 🗆 🗙
Installing Please wait while NCPA is bei	ing installed.	<u>N</u> agios
Created uninstaller: C:\Progr	ram Files (x86) Wagios WCPA \uninst	tall.exe
Nagios Enterprises, LLC	< <u>B</u> ack	Next > Cancel
NCPA Setup		- n x
Nagios	Completing NCPA	
	NCPA has been installed on you	ur computer.
	Click Finish to close Setup.	
	View NCPA website and docum	entation
	< <u>B</u> ack	<u>Finish</u> Cancel

Now that NCPA has been installed please proceed to the <u>Configure Firewall - Windows</u> section of this document.

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## **Installing NCPA On Windows - Silent**

The installer also supports a silent install, which allows system administrators to easily manage their network workstations without disrupting the workflow of the office. The following arguments currently supported.

Directive	Explanation
/s	This is how you tell the installer you are performing a silent install
/D	The directory to install NCPA to. This is optional, must be the last argument, cannot contain quotes, and must be an absolute path.
/TOKEN	The token that will be used to access the agent's API and web interface
/IP	The IP address to bind to. The default is <b>0.0.0.0</b> which binds to all IPv4 addresses. Use <b>::</b> for binding to IPv6 addresses.
/port	The port to bind to. The default is <b>5693</b> .
/NRDPURL	This is the URL on your Nagios Host that accepts passive check results to be submitted
/NRDPTOKEN	This is the token you will be using when passing NCPA passive checks to Nagios for NRDP to accept the check. This is separate from the token that was provided for active checks.
/NRDPHOSTNAME	The hostname that the passive checks belong to on the Nagios server

Using the previous graphic install of NCPA as an example, here is how you would install NCPA silently using those settings:

```
ncpa-2.1.6.exe /S /TOKEN='StrOngTOk3n' /NRDPURL='http://10.25.5.12/nrdp/'
/NRDPTOKEN='NRDP TOk3n' /NRDPHOSTNAME='S1601'
```

Now that NCPA has been installed please proceed to the **Configure Firewall - Windows** section of this document.

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## Installing NCPA On Linux

There are several methods for installing NCPA on Linux depending on your OS distribution. You will need to establish a terminal session as a root user to complete these steps.

## **Using Nagios Repository**

The Nagios Repository can be used to install NCPA on RHEL / CentOS / Oracle Linux. The first step is to install the repository depending on the version of Linux.

## 6.x

rpm -Uvh http://repo.nagios.com/nagios/6/nagios-repo-6-4.el6.noarch.rpm

## 7.x

rpm -Uvh http://repo.nagios.com/nagios/7/nagios-repo-7-4.el7.noarch.rpm

#### 8.x

rpm -Uvh http://repo.nagios.com/nagios/8/nagios-repo-8-1.el8.noarch.rpm

### 9.x

rpm -Uvh <u>https://repo.nagios.com/nagios/9/nagios-repo-9-1.el9.noarch.rpm</u>

Once the repository has been installed you will need to execute the following command to install NCPA:

yum install ncpa -y

Now that NCPA has been installed please proceed to the **Configuring NCPA** section of this document.

#### **Using RPM Package**

An RPM package can be used to install NCPA on RHEL / CentOS / Oracle Linux / openSUSE / SUSE SLES / AIX. The step below depends on the version and architecture of Linux you are running.

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#### RHEL / CentOS / Oracle Linux 6.x i386

rpm -Uvh https://assets.nagios.com/downloads/ncpa/ncpa-latest.el6.i386.rpm

#### RHEL / CentOS / Oracle Linux 6.x x86 64

rpm -Uvh https://assets.nagios.com/downloads/ncpa/ncpa-latest.el6.x86 64.rpm

#### RHEL / CentOS / Oracle Linux 7.x

rpm -Uvh https://assets.nagios.com/downloads/ncpa/ncpa-latest.el7.x86 64.rpm

#### RHEL / CentOS / Oracle Linux 8.x

rpm -Uvh https://assets.nagios.com/downloads/ncpa/ncpa-latest.el8.x86 64.rpm

#### RHEL / CentOS / Oracle Linux 9.x

rpm -Uvh https://assets.nagios.com/downloads/ncpa/ncpa-latest.el9.x86 64.rpm

### SUSE SLES 11.x i386

sudo rpm -Uvh https://assets.nagios.com/downloads/ncpa/ncpa-latest.sle11.i386.rpm

#### SUSE SLES 11.x x86\_64

sudo rpm -Uvh https://assets.nagios.com/downloads/ncpa-latest.sle11.x86 64.rpm

#### SUSE SLES 12.x x86\_64

sudo rpm -Uvh https://assets.nagios.com/downloads/ncpa-latest.sle12.x86 64.rpm

#### SUSE SLES 15.x x86\_64

sudo rpm -Uvh https://assets.nagios.com/downloads/ncpa/ncpa-latest.sle15.x86 64.rpm

#### openSUSE 15.x x86 64

sudo rpm -Uvh https://assets.nagios.com/downloads/ncpa/ncpa-latest.os15.x86 64.rpm

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#### AIX 7.x x86\_64

rpm -Uvh https://assets.nagios.com/downloads/ncpa/ncpa-latest.aix7.1.ppc.rpm

Now that NCPA has been installed please proceed to the **Configuring NCPA** section of this document.

#### Using DEB Package

An DEB package can be used to install NCPA on Ubuntu / Debian. The steps below depends on the version and architecture of Linux you are running.

#### Debian 8.x i386

```
wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.i386.deb
dpkg -i ./ncpa-latest.i386.deb
```

#### Debian 8.x amd64

```
wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.amd64.deb
dpkg -i ./ncpa-latest.amd64.deb
```

### Debian 9.x i386

wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.d9.i386.deb
dpkg -i ./ncpa-latest.d9.i386.deb

#### Debian 9.x amd64

```
wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.d9.amd64.deb
dpkg -i ./ncpa-latest.d9.amd64.deb
```

#### Debian 10.x amd64

wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.d10.amd64.deb
dpkg -i ./ncpa-latest.d10.amd64.deb

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#### Agent Installation Instructions

#### Debian 11.x amd64

wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.dl1.amd64.deb
dpkg -i ./ncpa-latest.dl1.amd64.deb

#### Ubuntu i386

```
wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.i386.deb
sudo dpkg -i ./ncpa-latest.i386.deb
```

### Ubuntu amd64

```
wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.amd64.deb
sudo dpkg -i ./ncpa-latest.amd64.deb
```

#### Ubuntu 22 amd64

wget https://assets.nagios.com/downloads/ncpa/ncpa-latest.u22.amd64.deb sudo dpkg -i ./ncpa-latest.u22.amd64.deb

Now that NCPA has been installed please proceed to the Configuring NCPA section of this document.

#### Using DMG Package

An DMG package can be used to install NCPA on Mac OS X.

```
curl -L -o ncpa-2.2.1.dmg https://assets.nagios.com/downloads/ncpa/ncpa-2.2.1.dmg
sudo hdiutil attach ncpa-2.2.1.dmg
cd /Volumes/NCPA-2.2.1
sudo sh ./install.sh
cd /
sudo hdiutil detach /Volumes/NCPA-2.2.1
```

Some versions of Mac OS have a built-in security feature that will block applications that are not "Apple certified". If, after installing the DMG package, you notice that the NCPA listener service does not start, follow the steps below:

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sudo spctl --master-disable
spctl --status
sudo /usr/local/ncpa/ncpa\_listener

Verify that NCPA is running by:

sudo launchctl list | grep -Ei 'ncpa'

Now that NCPA has been installed please proceed to the Configuring NCPA section of this document.

## **Configuring NCPA**

This section is specifically for the Linux / Mac OS X / AIX installations as they do not provide configuration options as part of the installer. However the configuration file in Windows is the same, hence the information here is also valid for Windows.

This documentation will only focus on configuring NCPA for Active checks. Passive checks are covered in the following documentation:

Using NCPA For Passive Checks

The NCPA configuration file is located here:

/usr/local/ncpa/etc/ncpa.cfg

Execute the following command to open the file in vi:

sudo vi /usr/local/ncpa/etc/ncpa.cfg

When using the vi editor, to make changes press *i* on the keyboard first to enter insert mode. Press *Esc* to exit insert mode.

Find the following line:

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community string = mytoken

Change it to your required token, for example:

community string = **StrOngTOk3n** 

When you have finished, save the changes in vi by typing:

:wq

and press Enter.

You will now need to restart the ncpa\_listener service for these changes to take affect, please proceed to the <u>Restart Service</u> section of this documentation.

## **Restart Service**

The command required for this will differ depending on your OS and version.

```
RHEL / CentOS / Oracle Linux 6.x
service ncpa listener restart
```

RHEL / CentOS / Oracle Linux 7.x +

systemctl restart ncpa listener.service

Ubuntu 12.x / 13.x / 14.x

sudo service ncpa listener restart

Ubuntu 15.x +

sudo systemctl restart ncpa listener.service

Debian 7.x

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service ncpa listener restart

### Debian 8.x +

systemctl restart ncpa listener.service

#### openSUSE / SUSE SLES 11.x

sudo /sbin/service ncpa listener restart

#### openSUSE Leap 42.x + / SUSE SLES 12.x +

sudo systemctl restart ncpa listener.service

## AIX

stopsrc -s ncpa\_listener startsrc -s ncpa listener

### Mac OS X

sudo launchctl stop com.nagios.ncpa.listener sudo launchctl start com.nagios.ncpa.listener

Now that the ncpa\_listener service has been restarted please proceed to the <u>Configure Firewall - Linux</u> section of this document.

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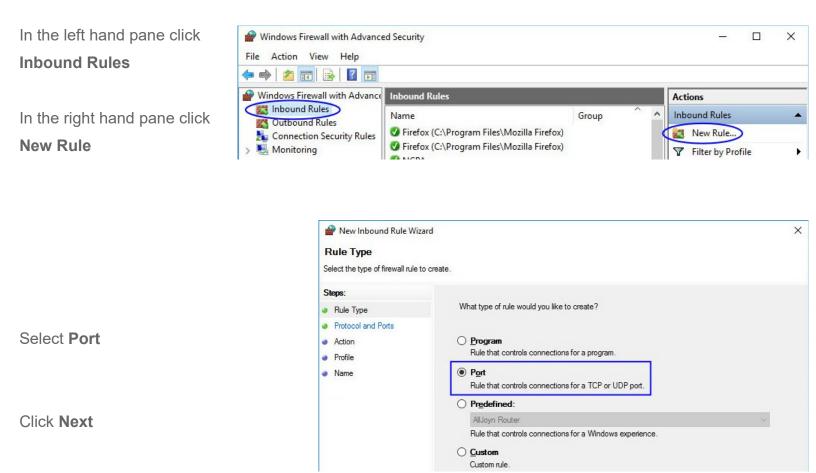
Agent Installation Instructions

## **Configure Firewall - Windows**

A firewall rule needs to be created on your Windows machine to allow incoming traffic to NCPA on TCP Port 5693.

To change the firewall settings, select **Start** and type **firewall** in the search dialog box and open **Windows Firewall with Advanced Security**.

In Server 2012 / 2016 this is located at Server Manager > Tools > Windows Firewall with Advanced Security.

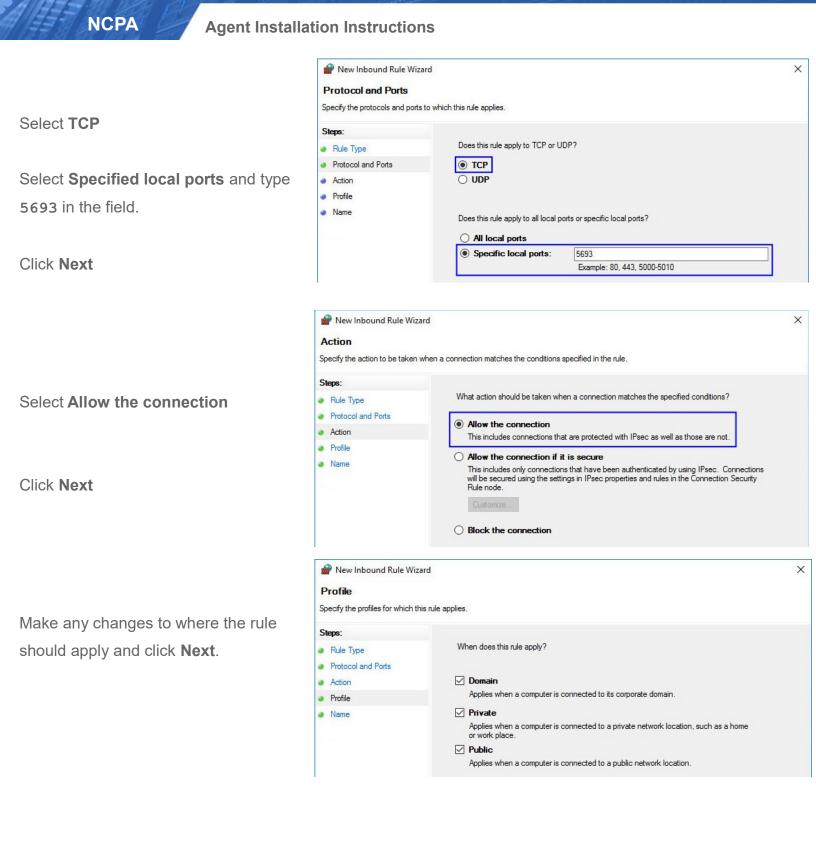


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NCPA Agent Ins	stallation Instructior	IS	
	<ul> <li>Wew Inbound Rule Wizard</li> <li>Name</li> <li>Specify the name and description</li> </ul>		×
Give the rule a <b>Name</b>	Steps: Rule Type Protocol and Ports Action Profile	Name:	
Click <b>Finish</b> to create the rule.	<ul> <li>Name</li> </ul>	NCPA Listener Description (optional):	

Now that the firewall has been created please proceed to the <u>Test NCPA</u> section of this document.

## **Configure Firewall - Linux**

A firewall rule needs to be created on your Linux machine to allow incoming traffic to NCPA on TCP Port 5693. The command required for this will differ depending on your OS and version.

RHEL / CentOS / Oracle Linux 5.x / 6.x

```
iptables -I INPUT -p tcp --destination-port 5693 -j ACCEPT
service iptables save
ip6tables -I INPUT -p tcp --destination-port 5693 -j ACCEPT
service ip6tables save
```

## RHEL / CentOS / Oracle Linux 7.x +

```
firewall-cmd --zone=public --add-port=5693/tcp
```

firewall-cmd --zone=public --add-port=5693/tcp --permanent

### Ubuntu

```
sudo mkdir -p /etc/ufw/applications.d
sudo sh -c "echo '[NCPA]' > /etc/ufw/applications.d/ncpa"
sudo sh -c "echo 'title=Nagios Cross Platorm Agent' >> /etc/ufw/applications.d/ncpa"
sudo sh -c "echo 'description=Nagios Monitoring Agent' >> /etc/ufw/applications.d/ncpa"
sudo sh -c "echo 'ports=5693/tcp' >> /etc/ufw/applications.d/ncpa"
sudo ufw allow NCPA
sudo ufw reload
```

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#### Debian

iptables -I INPUT -p tcp --destination-port 5693 -j ACCEPT apt-get install -y iptables-persistent Answer yes to saving existing rules

## SUSE SLES 11.x

```
sudo sed -i '/FW_SERVICES_EXT_TCP=/s/\"$/\ 5693\"/' /etc/sysconfig/SuSEfirewall2
sudo /sbin/service SuSEfirewall2_init restart
sudo /sbin/service SuSEfirewall2 setup restart
```

#### SUSE SLES 12.x +

sudo /usr/sbin/SuSEfirewall2 open EXT TCP 5693
sudo systemctl restart SuSEfirewall2.service

openSUSE Leap The firewall is not enabled by default and allows port 5693.

#### AIX

Please refer to the AIX documentation.

Mac OS X

The firewall is not enabled by default and allows port 5693.

Now that the firewall has been defined please proceed to the <u>Test NCPA</u> section of this document.

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## **Test NCPA**

To ensure that the installation was successful and NCPA is now listening, try accessing the web interface of the agent. In order to do this you will need to know:

/ Privacy error

×

- The IP Address of the machine you installed NCPA on
- The token / community string you configured NCPA to use

Open a web browser and connect to the NCPA web interface using the following URL:

https://<NCPA IP Address>:5693/

You will be presented with a security message. This is completely **OK** and expected. NCPA is using self signed certificates as it allows the communication to be encrypted. Your web browser is warning you because it does not know about the certificate.

You will need to click **Advanced** and then **Add Exception** or **Proceed to xxx** to allow you to use the NCPA page.

More information on certificates is explained in the <u>Understanding Certificate Warnings</u> KB article.

	A Not secure   https://1	0.23.13.81.3093		
A				
Your co	onnection is not	private		
Attackers r	might be trying to steal yo	our information fr	om <b>10.25.13.81</b>	(for example
passwords	s, messages or credit card	s). <u>Learn more</u>		
NET::ERR_CE	ERT_AUTHORITY_INVALID			
Automat	tically send some <u>system info</u>	ormation and page co	ontent to Google	to help detect
dangero	ous apps and sites. <u>Privacy Po</u>	licy		
				-
HIDEADVAN	NCED			Back to safety
This server	r could not prove that it is	<b>10.25.13.81</b> ; its se	ecurity certificat	e is not trus
by your co	mputer's operating syste	m. This may be <mark>c</mark> a	used by a misco	onfiguration
an attacker	r Intercepting your conne	ection.		
Proceed to 1	10.25.13.81 (unsafe)			

You	will	then	be	shown	the	NCPA
logir	ı pa	ge.				

Type the token in the field and then click the **Log In** button.

N	С	Ρ	A	
	-	•	A	

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NCPA Agent Insta	allation Instructions				
Once you log in you will be placed		✓ Checks	🚠 API  🕍 Graph:	s 🏘 Admin 🕀 Help	<b>එ</b> Logout
on the Dashboard page with a	Check Statistics		Agent Informat	ion	
summary of the NCPA version and	Check Results 0	Last 30 days)	Version	2.0.5	
machine it is running on.			Agent Uptime	3:11:50	
	See Live Stats >		System Inform	ation	
Congratulations, NCPA is now			Node Name	suse05	
ready to be monitored by Nagios.			System	Linux 4.4.82-6.3-default #1 SMP Mon Aug 14 14:14:0 UTC 2017 (4c72484)	2
			Processor Type	x86_64	

Please proceed to the Configuring Nagios section of this document.

# **Configuring Nagios**

Now that NCPA is installed on the remote machine, you can monitor the machine using the NCPA monitoring wizard in Nagios XI. Please refer to the following documentation for detailed steps:

Monitoring Devices Using The NCPA Agent And Nagios XI

The NCPA agent has built-in documentation in web interface, this is located on the **Help** tab. This gives the options to view or change configuration settings remotely as well as access additional info on NCPA.

# **Finishing Up**

This completes the documentation on how to install the Nagios Cross Platform Agent.

If you have additional questions or other support related questions, please visit us at our Nagios Support Forums:

https://support.nagios.com/forum

The Nagios Support Knowledgebase is also a great support resource:

https://support.nagios.com/kb

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