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## **EXPERIMENT 10**

### **1. What is Nagios? Comment on why we need Nagios tool?**

Nagios is an open-source tool that is widely used to monitor the systems, infrastructure, and networks so that performance bottlenecks can be identified. The tool offers several services like monitoring of servers, applications, and switches and also sends alerts to the user when any performance issue is identified in the system. The tool is also capable of sending alerts when the issue is identified.

Nagios software runs periodic checks on critical parameters of application, network and server resources. For example, Nagios can monitor memory usage, disk usage, microprocessor load, the number of currently running processes and log files. Nagios also can monitor services, such as Simple Mail Transfer Protocol (SMTP), Post Office Protocol 3 (POP3), Hypertext Transfer Protocol (HTTP) and other common network protocols. Active checks are initiated by Nagios, while passive checks come from external applications connected to the monitoring tool.

#### **Need of Nagios:**

- Detects all types of network or server issues
- Helps you to find the root cause of the problem which allows you to get the permanent solution to the problem
- Active monitoring of your entire infrastructure and business processes
- Allows you to monitors and troubleshoot server performance issues
- Helps you to plan for infrastructure upgrades before outdated systems create failures
- You can maintain the security and availability of the service
- Automatically fix problems in a panic situation

## 2. Perform an experiment, to Understand Continuous monitoring and Installation and configuration of Nagios Core, Nagios Plugins on Linux Machine.

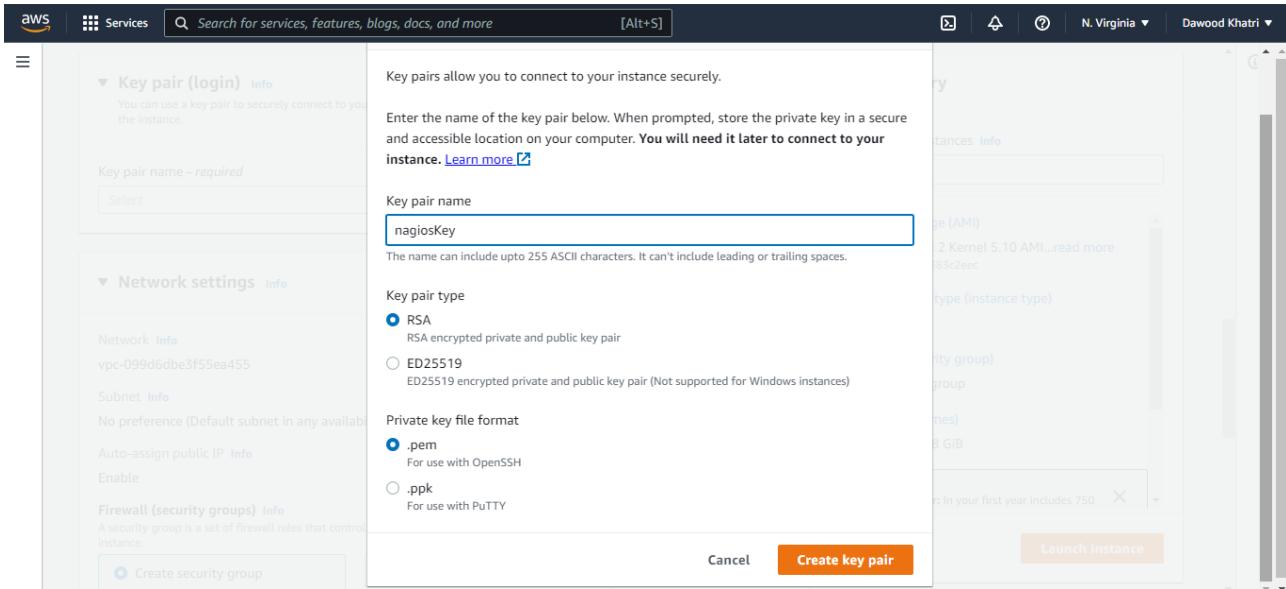
### Step 1: Login to AWS Console.

The screenshot shows the AWS Console Home page. In the top left, there's a sidebar titled "Recently visited" with icons for EC2, Lightsail, Lambda, AWS Budgets, S3, Elastic Container Service, and DynamoDB. To the right, there's a "Welcome to AWS" section with three cards: "Getting started with AWS" (with a rocket icon), "Training and certification" (with a graduation cap icon), and "What's new with AWS?" (with a lightbulb icon). At the top, there's a search bar and a "Reset to default layout" button.

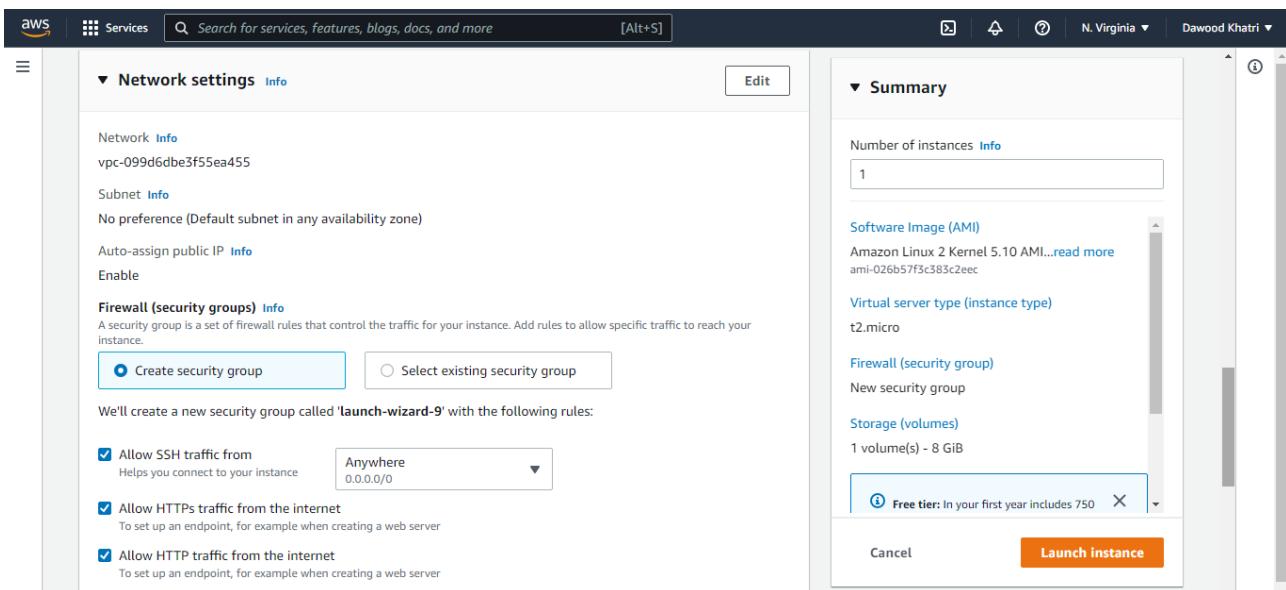
### Step 2: Search for EC2, Click on Launch Instance, Give name to instance and select OS Image as Amazon Linux.

The screenshot shows the AWS EC2 Launch Instance wizard. On the left, under "Name and tags", the "Name" field contains "dawoodNagios". Below it, the "Application and OS Images (Amazon Machine Image)" section lists various OS options like Amazon Linux, macOS, Ubuntu, Windows, and Red Hat. A search bar at the bottom of this section says "Search our full catalog including 1000s of application and OS images". On the right, the "Summary" step shows "Number of instances" set to 1, "Software Image (AMI)" set to "Amazon Linux 2 Kernel 5.10 AMI...", "Virtual server type (instance type)" set to "t2.micro", and "Storage (volumes)" set to "1 volume(s) - 8 GiB". At the bottom right is a "Launch Instance" button.

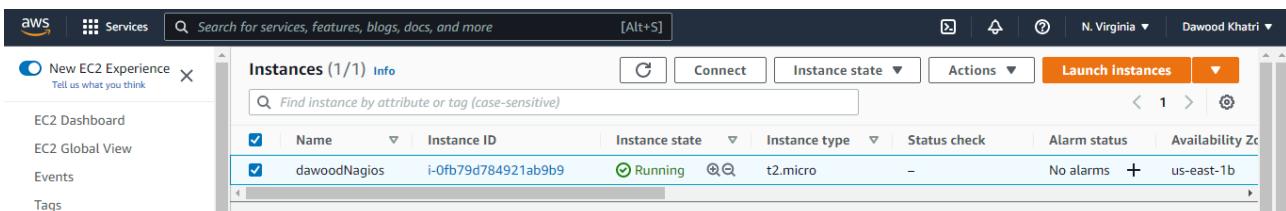
## Step 3: Create Key pair.



## Step 4: Under Network Settings, Tick all checkboxes and Click on Launch Instance.



## Step 5: Go to Instances, Select our Instance, Click on Connect.



## Step 6: Copy Public DNS

Connect to instance [Info](#)  
Connect to your instance i-0fb79d784921ab9b9 (dawoodNagios) using any of these options

EC2 Instance Connect Session Manager **SSH client** EC2 serial console

Instance ID  
i-0fb79d784921ab9b9 (dawoodNagios)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is nagiosKey.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.

**Public DNS copied** ) nagiosKey.pem

Example:  
ssh -i "nagiosKey.pem" ec2-user@ec2-44-203-71-166.compute-1.amazonaws.com

**Note:** In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

## Step 7: Open MobaXterm, New SSH Session, Enter Public DNS in Remote host, Specify username, Select Private key and Click OK.

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

**Basic SSH settings**

Remote host \*   Specify username   Port

**Advanced SSH settings**

X11-Forwarding  Compression Remote environment:

Execute command:   
SSH-browser type:   Do not exit after command ends  Follow SSH path (experimental)

Use private key   Adapt locales on remote server

Execute macro at session start:

## Step 8: We are now Connected to our EC2 instance.

```
• MobaXterm Personal Edition v22.1 •
(SSH client, X server and network tools)

► SSH session to ec2-user@ec2-44-203-71-166.compute-1.amazonaws.com
• Direct SSH : ✓
• SSH compression : ✓
• SSH-browser : ✓
• X11-forwarding : ✘ (disabled or not supported by server)

► For more info, ctrl+click on help or visit our website.

_____
| | ( _|_ /   Amazon Linux 2 AMI
| | \_|_|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-83-136 ~]$ sudo su
[root@ip-172-31-83-136 ec2-user]#
```

## Step 9: Now Run the following commands one by one.

- `yum install httpd php`

```
[root@ip-172-31-83-136 ec2-user]# yum install httpd php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                         | 3.7 k
Resolving Dependencies
→ Running transaction check
---> Package httpd.x86_64 0:2.4.54-1.amzn2 will be installed
→ Processing Dependency: httpd-tools = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
→ Processing Dependency: httpd-filesystem for package: httpd-2.4.54-1.amzn2.x86_64
→ Processing Dependency: system-logos-httdp for package: httpd-2.4.54-1.amzn2.x86_64
→ Processing Dependency: mod_http2 for package: httpd-2.4.54-1.amzn2.x86_64
→ Processing Dependency: httpd-filesystem for package: httpd-2.4.54-1.amzn2.x86_64
→ Processing Dependency: /etc/mime.types for package: httpd-2.4.54-1.amzn2.x86_64
→ Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
→ Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
---> Package php.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
→ Processing Dependency: php-cli(x86-64) = 5.4.16-46.amzn2.0.2 for package: php-5.4.16-46.amzn2.0.2.x86_64
→ Processing Dependency: php-common(x86-64) = 5.4.16-46.amzn2.0.2 for package: php-5.4.16-46.amzn2.0.2.x86_64
→ Running transaction check
---> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
---> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
→ Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
---> Package generic-logos-httdp.noarch 0:18.0.0-4.amzn2 will be installed
---> Package httpd-filesystem.noarch 0:2.4.54-1.amzn2 will be installed
---> Package httpd-tools.x86_64 0:2.4.54-1.amzn2 will be installed
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
---> Package php-cli.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
---> Package php-common.x86_64 0:5.4.16-46.amzn2.0.2 will be installed

Installing : httpd-2.4.54-1.amzn2.x86_64
Installing : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64
Installing : php-common-5.4.16-46.amzn2.0.2.x86_64
Installing : php-cli-5.4.16-46.amzn2.0.2.x86_64
Installing : php-5.4.16-46.amzn2.0.2.x86_64
Verifying  : apr-util-1.6.1-5.amzn2.0.2.x86_64
Verifying  : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64
Verifying  : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64
Verifying  : php-cli-5.4.16-46.amzn2.0.2.x86_64
Verifying  : httpd-tools-2.4.54-1.amzn2.x86_64
Verifying  : php-5.4.16-46.amzn2.0.2.x86_64
Verifying  : mod_http2-1.15.19-1.amzn2.0.1.x86_64
Verifying  : httpd-2.4.54-1.amzn2.x86_64
Verifying  : mailcap-2.1.41-2.amzn2.noarch
Verifying  : generic-logos-httdp-18.0.0-4.amzn2.noarch
Verifying  : httpd-filesystem-2.4.54-1.amzn2.noarch
Verifying  : apr-1.7.0-9.amzn2.x86_64
Verifying  : php-common-5.4.16-46.amzn2.0.2.x86_64

Installed:
httpd.x86_64 0:2.4.54-1.amzn2                               php.x86_64 0:5.4.16-46.amzn2.0.2

Dependency Installed:
apr.x86_64 0:1.7.0-9.amzn2                                apr-util.x86_64 0:1.6.1-5.amzn2.0.2      apr-util-bdb.x86_64 0:1.6.1
generic-logos-httdp.noarch 0:18.0.0-4.amzn2                httpd-filesystem.noarch 0:2.4.54-1.amzn2  httpd-tools.x86_64 0:2.4.54
libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5            mailcap.noarch 0:2.1.41-2.amzn2             mod_http2.x86_64 0:1.15.19-
php-cli.x86_64 0:5.4.16-46.amzn2.0.2                     php-common.x86_64 0:5.4.16-46.amzn2.0.2

Complete!
[root@ip-172-31-83-136 ec2-user]#
```

- `yum install gcc glibc glibc-common`

```
[root@ip-172-31-83-136 ec2-user]# yum install gcc glibc glibc-common
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
→ Running transaction check
--> Package gcc.x86_64 0:7.3.1-15.amzn2 will be installed
--> Processing Dependency: cpp = 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libasanitizer >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libquadmath >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libmpx >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libitm >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libcilkrtts >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libatomic >= 7.3.1-15.amzn2 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: glibc-devel >= 2.2.90-12 for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libmpfr.so.4()(64bit) for package: gcc-7.3.1-15.amzn2.x86_64
--> Processing Dependency: libmpc.so.3()(64bit) for package: gcc-7.3.1-15.amzn2.x86_64
--> Running transaction check
--> Package cpp.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package glibc-devel.x86_64 0:2.26-60.amzn2 will be installed
--> Processing Dependency: glibc-headers = 2.26-60.amzn2 for package: glibc-devel-2.26-60.amzn2.x86_64
--> Processing Dependency: glibc-headers for package: glibc-devel-2.26-60.amzn2.x86_64
--> Package libatomic.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libcilkrtts.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libitm.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libmpc.x86_64 0:1.0.1-3.amzn2.0.2 will be installed
--> Package libmpx.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libquadmath.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package libasanitizer.x86_64 0:7.3.1-15.amzn2 will be installed

Installing : libquadmath-7.3.1-15.amzn2.x86_64
Installing : libitm-7.3.1-15.amzn2.x86_64
Installing : libmpx-7.3.1-15.amzn2.x86_64
Installing : kernel-headers-5.10.135-122.509.amzn2.x86_64
Installing : glibc-headers-2.26-60.amzn2.x86_64
Installing : glibc-devel-2.26-60.amzn2.x86_64
Installing : gcc-7.3.1-15.amzn2.x86_64
Verifying : kernel-headers-5.10.135-122.509.amzn2.x86_64
Verifying : libmpx-7.3.1-15.amzn2.x86_64
Verifying : libitm-7.3.1-15.amzn2.x86_64
Verifying : glibc-headers-2.26-60.amzn2.x86_64
Verifying : libmpc-1.0.1-3.amzn2.0.2.x86_64
Verifying : libquadmath-7.3.1-15.amzn2.x86_64
Verifying : libatomic-7.3.1-15.amzn2.x86_64
Verifying : libasanitizer-7.3.1-15.amzn2.x86_64
Verifying : glibc-devel-2.26-60.amzn2.x86_64
Verifying : gcc-7.3.1-15.amzn2.x86_64
Verifying : libcilkrtts-7.3.1-15.amzn2.x86_64
Verifying : cpp-7.3.1-15.amzn2.x86_64
Verifying : mpfr-3.1.1-4.amzn2.0.2.x86_64

Installed:
  gcc.x86_64 0:7.3.1-15.amzn2

Dependency Installed:
  cpp.x86_64 0:7.3.1-15.amzn2
  kernel-headers.x86_64 0:5.10.135-122.509.amzn2
  libitm.x86_64 0:7.3.1-15.amzn2
  libquadmath.x86_64 0:7.3.1-15.amzn2

  glibc-devel.x86_64 0:2.26-60.amzn2
  libatomic.x86_64 0:7.3.1-15.amzn2
  libmpc.x86_64 0:1.0.1-3.amzn2.0.2
  libasanitizer.x86_64 0:7.3.1-15.amzn2

  glibc-headers.x86_64 0:2.
  libcilkrtts.x86_64 0:7.3.1-15.
  libmpx.x86_64 0:7.3.1-15.
  mpfr.x86_64 0:3.1.1-4.amz

Complete!
[root@ip-172-31-83-136 ec2-user]#
```

- `yum install gd gd-devel`

```
[root@ip-172-31-83-136 ec2-user]# yum install gd gd-devel
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
→ Running transaction check
--> Package gd.x86_64 0:2.0.35-27.amzn2 will be installed
--> Processing Dependency: libfontconfig.so.1()(64bit) for package: gd-2.0.35-27.amzn2.x86_64
--> Processing Dependency: libXpm.so.4()(64bit) for package: gd-2.0.35-27.amzn2.x86_64
--> Processing Dependency: libX11.so.6()(64bit) for package: gd-2.0.35-27.amzn2.x86_64
--> Package gd-devel.x86_64 0:2.0.35-27.amzn2 will be installed
--> Processing Dependency: zlib-devel for package: gd-devel-2.0.35-27.amzn2.x86_64
--> Processing Dependency: libpng-devel for package: gd-devel-2.0.35-27.amzn2.x86_64
--> Processing Dependency: libjpeg-devel for package: gd-devel-2.0.35-27.amzn2.x86_64
--> Processing Dependency: libXpm-devel for package: gd-devel-2.0.35-27.amzn2.x86_64
--> Processing Dependency: libX11-devel for package: gd-devel-2.0.35-27.amzn2.x86_64
--> Processing Dependency: freetype-devel for package: gd-devel-2.0.35-27.amzn2.x86_64
--> Processing Dependency: fontconfig-devel for package: gd-devel-2.0.35-27.amzn2.x86_64
--> Running transaction check
--> Package fontconfig.x86_64 0:2.13.0-4.3.amzn2 will be installed
--> Processing Dependency: Fontpackages-filesystem for package: fontconfig-2.13.0-4.3.amzn2.x86_64
```

```

Dependencies Resolved

=====
Package          Arch      Version       Repository      Size
=====
Installing:
gd              x86_64    2.0.35-27.amzn2   amzn2-core      146 k
gd-devel        x86_64    2.0.35-27.amzn2   amzn2-core      79 k
Installing for dependencies:
dejavu-fonts-common      noarch    2.33-6.amzn2      amzn2-core      64 k
dejavu-sans-fonts        noarch    2.33-6.amzn2      amzn2-core      1.4 M
expat-devel           x86_64    2.1.0-14.amzn2.0.1  amzn2-core      59 k
fontconfig             x86_64    2.13.0-4.3.amzn2  amzn2-core      253 k
fontconfig-devel       x86_64    2.13.0-4.3.amzn2  amzn2-core      138 k
fontpackages-filesystem noarch    1.44-8.amzn2      amzn2-core      10 k
freetype-devel         x86_64    2.8-14.amzn2.1    amzn2-core      447 k
libICE               x86_64    1.0.9-9.amzn2.0.2  amzn2-core      67 k
libSM                x86_64    1.2.2-2.amzn2.0.2  amzn2-core      39 k
libX11               x86_64    1.6.7-3.amzn2.0.2  amzn2-core      606 k
libX11-common         noarch    1.6.7-3.amzn2.0.2  amzn2-core      165 k
libX11-devel          x86_64    1.6.7-3.amzn2.0.2  amzn2-core      982 k
libXau               x86_64    1.0.8-2.1.amzn2.0.2  amzn2-core      29 k
libXau-devel          x86_64    1.0.8-2.1.amzn2.0.2  amzn2-core      14 k
libXext               x86_64    1.3.3-3.amzn2.0.2  amzn2-core      39 k
libXpm               x86_64    3.5.12-1.amzn2.0.2  amzn2-core      57 k
libXpm-devel          x86_64    3.5.12-1.amzn2.0.2  amzn2-core      36 k
libXt                x86_64    1.1.5-3.amzn2.0.2  amzn2-core      177 k
libjpeg-turbo-devel   x86_64    2.0.90-2.amzn2.0.1   amzn2-core      110 k
libpng-devel          x86_64    2:1.5.13-8.amzn2   amzn2-core      122 k
libuuid-devel         x86_64    2.30.2-2.amzn2.0.7  amzn2-core      87 k
libxcb               x86_64    1.12-1.amzn2.0.2   amzn2-core      216 k

Installed:
gd.x86_64 0:2.0.35-27.amzn2
gd-devel.x86_64 0:2.0.35-27.amzn2

Dependency Installed:
dejavu-fonts-common.noarch 0:2.33-6.amzn2
expat-devel.x86_64 0:2.1.0-14.amzn2.0.1
fontconfig-devel.x86_64 0:2.13.0-4.3.amzn2
freetype-devel.x86_64 0:2.8-14.amzn2.1
libSM.x86_64 0:1.2.2-2.amzn2.0.2
libX11-common.noarch 0:1.6.7-3.amzn2.0.2
libXau.x86_64 0:1.0.8-2.1.amzn2.0.2
libXext.x86_64 0:1.3.3-3.amzn2.0.2
libXpm-devel.x86_64 0:3.5.12-1.amzn2.0.2
libjpeg-turbo-devel.x86_64 0:2.0.90-2.amzn2.0.1
libuuid-devel.x86_64 0:2.30.2-2.amzn2.0.7
libxcb-devel.x86_64 0:1.12-1.amzn2.0.2
zlib-devel.x86_64 0:1.2.7-19.amzn2.0.1

dejavu-sans-fonts.noarch 0:2.33-6.amzn2
fontconfig.x86_64 0:2.13.0-4.3.amzn2
fontpackages-filesystem.noarch 0:1.44-8.amzn2
libICE.x86_64 0:1.0.9-9.amzn2.0.2
libX11.x86_64 0:1.6.7-3.amzn2.0.2
libX11-devel.x86_64 0:1.6.7-3.amzn2.0.2
libXau-devel.x86_64 0:1.0.8-2.1.amzn2.0.2
libXpm.x86_64 0:3.5.12-1.amzn2.0.2
libXt.x86_64 0:1.1.5-3.amzn2.0.2
libpng-devel.x86_64 2:1.5.13-8.amzn2
libxcb.x86_64 0:1.12-1.amzn2.0.2
xorg-x11proto-devel.noarch 0:2018.4-1.amzn2.0.2

Complete!
[root@ip-172-31-83-136 ec2-user]#

```

- adduser -m nagios
- passwd nagios

```

[root@ip-172-31-83-136 ec2-user]# adduser -m nagios
[root@ip-172-31-83-136 ec2-user]# passwd nagios
Changing password for user nagios.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-83-136 ec2-user]#

```

- groupadd nagioscmd
- usermod -a -G nagioscmd nagios
- usermod -a -G nagioscmd apache

```

[root@ip-172-31-83-136 ec2-user]# groupadd nagioscmd
[root@ip-172-31-83-136 ec2-user]# usermod -a -G nagioscmd nagios
[root@ip-172-31-83-136 ec2-user]# usermod -a -G nagioscmd apache
[root@ip-172-31-83-136 ec2-user]#

```

- mkdir ~/downloads
- cd ~/downloads

```
[root@ip-172-31-83-136 ec2-user]# mkdir ~/downloads
[root@ip-172-31-83-136 ec2-user]# cd ~/downloads
[root@ip-172-31-83-136 downloads]#
```

- wget  
<http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz>

```
[root@ip-172-31-83-136 downloads]# wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
--2022-10-11 15:43:06-- http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
Resolving prdownloads.sourceforge.net (prdownloads.sourceforge.net) ... 204.68.111.105
Connecting to prdownloads.sourceforge.net (prdownloads.sourceforge.net)|204.68.111.105|:80 ... connected.
HTTP request sent, awaiting response ... 301 Moved Permanently
Location: http://downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz [following]
--2022-10-11 15:43:06-- http://downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz
Resolving downloads.sourceforge.net (downloads.sourceforge.net) ... 204.68.111.105
Reusing existing connection to prdownloads.sourceforge.net:80.
HTTP request sent, awaiting response ... 302 Found
Location: http://versaweb.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz [following]
--2022-10-11 15:43:06-- http://versaweb.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz
Resolving versaweb.dl.sourceforge.net (versaweb.dl.sourceforge.net) ... 162.251.232.173
Connecting to versaweb.dl.sourceforge.net (versaweb.dl.sourceforge.net)|162.251.232.173|:80 ... connected.
HTTP request sent, awaiting response ... 200 OK
Length: 1805059 (1.7M) [application/x-gzip]
Saving to: 'nagios-4.0.8.tar.gz'

100%[=====] 1,805,059  2.69MB/s   in 0.6s

2022-10-11 15:43:07 (2.69 MB/s) - 'nagios-4.0.8.tar.gz' saved [1805059/1805059]

[root@ip-172-31-83-136 downloads]#
```

- wget <http://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz>

```
[root@ip-172-31-83-136 downloads]# wget http://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz
--2022-10-11 15:44:28-- http://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz
Resolving nagios-plugins.org (nagios-plugins.org) ... 45.56.123.251
Connecting to nagios-plugins.org (nagios-plugins.org)|45.56.123.251|:80 ... connected.
HTTP request sent, awaiting response ... 200 OK
Length: 2782610 (2.7M) [application/x-gzip]
Saving to: 'nagios-plugins-2.3.3.tar.gz'

100%[=====] 2,782,610  9.06MB/s   in 0.3s

2022-10-11 15:44:28 (9.06 MB/s) - 'nagios-plugins-2.3.3.tar.gz' saved [2782610/2782610]

[root@ip-172-31-83-136 downloads]#
```

- tar zxvf nagios-4.0.8.tar.gz

```
[root@ip-172-31-83-136 downloads]# tar zxvf nagios-4.0.8.tar.gz
nagios-4.0.8/
nagios-4.0.8/.gitignore
nagios-4.0.8/Changelog
nagios-4.0.8/INSTALLING
nagios-4.0.8/LEGAL
nagios-4.0.8/LICENSE
nagios-4.0.8/Makefile.in
nagios-4.0.8/README
nagios-4.0.8/README.asciidoc
nagios-4.0.8/THANKS
nagios-4.0.8/UPGRADING
nagios-4.0.8/base/
nagios-4.0.8/base/.gitignore
nagios-4.0.8/base/Makefile.in
nagios-4.0.8/base/broker.c
nagios-4.0.8/base/checks.c
nagios-4.0.8/base/commands.c
nagios-4.0.8/base/config.c
nagios-4.0.8/base/events.c
nagios-4.0.8/base/flapping.c
nagios-4.0.8/base/logging.c
nagios-4.0.8/base/nagios.c
nagios-4.0.8/base/nagiostats.c
nagios-4.0.8/base/nebmods.c
```

```
nagios-4.0.8/xdata/
nagios-4.0.8/xdata/.gitignore
nagios-4.0.8/xdata/Makefile.in
nagios-4.0.8/xdata/xcddefault.c
nagios-4.0.8/xdata/xcddefault.h
nagios-4.0.8/xdata/xodtemplate.c
nagios-4.0.8/xdata/xodtemplate.h
nagios-4.0.8/xdata/xpddefault.c
nagios-4.0.8/xdata/xpddefault.h
nagios-4.0.8/xdata/xrddefault.c
nagios-4.0.8/xdata/xrddefault.h
nagios-4.0.8/xdata/xsddefault.c
nagios-4.0.8/xdata/xsddefault.h
[root@ip-172-31-83-136 downloads]#
```

- cd nagios-4.0.8

```
[root@ip-172-31-83-136 downloads]# cd nagios-4.0.8
[root@ip-172-31-83-136 nagios-4.0.8]#
```

- ./configure --with-command-group=nagioscmd

```
[root@ip-172-31-83-136 downloads]# cd nagios-4.0.8
[root@ip-172-31-83-136 nagios-4.0.8]# clear
[root@ip-172-31-83-136 nagios-4.0.8]# ./configure --with-command-group=nagioscmd
checking for a BSD-compatible install ... /bin/install -c
checking build system type... x86_64-unknown-linux-gnu
checking host system type ... x86_64-unknown-linux-gnu
checking for gcc ... gcc
checking for C compiler default output file name ... a.out
checking whether the C compiler works ... yes
checking whether we are cross compiling ... no
checking for suffix of executables...
checking for suffix of object files ... o
checking whether we are using the GNU C compiler ... yes
checking whether gcc accepts -g ... yes
checking for gcc option to accept ISO C89 ... none needed
checking whether make sets $(MAKE) ... yes
checking for strip ... /bin/strip
checking how to run the C preprocessor ... gcc -E
checking for grep that handles long lines and -e ... /bin/grep
checking for egrep ... /bin/grep -E
checking for ANSI C header files ... yes
checking whether time.h and sys/time.h may both be included ... yes
checking for sys/wait.h that is POSIX.1 compatible ... yes
Creating sample config files in sample-config/ ...

*** Configuration summary for nagios 4.0.8 08-12-2014 ***:

General Options:
-----
    Nagios executable: nagios
    Nagios user/group: nagios,nagios
    Command user/group: nagios,nagioscmd
        Event Broker: yes
    Install ${prefix}: /usr/local/nagios
    Install ${includedir}: /usr/local/nagios/include/nagios
        Lock file: ${prefix}/var/nagios.lock
    Check result directory: ${prefix}/var/spool/checkresults
        Init directory: /etc/rc.d/init.d
    Apache conf.d directory: /etc/httpd/conf.d
        Mail program: /bin/mail
        Host OS: linux-gnu
    IOBroker Method: epoll

Web Interface Options:
-----
        HTML URL: http://localhost/nagios/
        CGI URL: http://localhost/nagios/cgi-bin/
    Traceroute (used by WAP): /bin/traceroute

Review the options above for accuracy. If they look okay,
type 'make all' to compile the main program and CGIs.
```

```
[root@ip-172-31-83-136 nagios-4.0.8]#
```

## ● make all

```
[root@ip-172-31-83-136 nagios-4.0.8]# make all
cd ./base & make
make[1]: Entering directory `/root/downloads/nagios-4.0.8/base'
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o nagios.o nagios.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o broker.o broker.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o .. /common/shared.o .. /common/shared.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o nerd.o nerd.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o query-handler.o query-handler.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o workers.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o checks.o checks.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o config.o config.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o commands.o commands.c
commands.c: In function `process_passive_service_check':
commands.c:2247:12: warning: assignment discards 'const' qualifier from pointer target type [-Wdiscarded-qualifiers]
    cr.source = command_worker.source_name;
           ^
commands.c: In function `process_passive_host_check':
commands.c:2339:12: warning: assignment discards 'const' qualifier from pointer target type [-Wdiscarded-qualifiers]
    cr.source = command_worker.source_name;
           ^
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o events.o events.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o flapping.o flapping.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o logging.o logging.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o macros-base.o .. /common/macros.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o netutils.o netutils.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o notifications.o notifications.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o sehandlers.o sehandlers.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o utils.o utils.c
utils.c: In function `_get_matching_timerange':
utils.c:1117:6: warning: assuming signed overflow does not occur when assuming that (X + c) ≥ X is always true [-Wstrict-overflow]
```

\*\*\* Support Notes \*\*\*\*\*

If you have questions about configuring or running Nagios,  
please make sure that you:

- Look at the sample config files
- Read the documentation on the Nagios Library at:  
<http://library.nagios.com>

before you post a question to one of the mailing lists.  
Also make sure to include pertinent information that could  
help others help you. This might include:

- What version of Nagios you are using
- What version of the plugins you are using
- Relevant snippets from your config files
- Relevant error messages from the Nagios log file

For more information on obtaining support for Nagios, visit:

<http://support.nagios.com>

\*\*\*\*\*

Enjoy.

```
[root@ip-172-31-83-136 nagios-4.0.8]#
```

## ● make install

```
[root@ip-172-31-83-136 nagios-4.0.8]# make install
cd ./base & make install
make[1]: Entering directory `/root/downloads/nagios-4.0.8/base'
make install-basic
make[2]: Entering directory `/root/downloads/nagios-4.0.8/base'
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/bin
/bin/install -c -m 774 -o nagios -g nagios nagios /usr/local/nagios/bin
/bin/install -c -m 774 -o nagios -g nagios nagiosstats /usr/local/nagios/bin
make[2]: Leaving directory `/root/downloads/nagios-4.0.8/base'
make strip-post-install
make[2]: Entering directory `/root/downloads/nagios-4.0.8/base'
/bin/strip /usr/local/nagios/bin/nagios
/bin/strip /usr/local/nagios/bin/nagiosstats
make[2]: Leaving directory `/root/downloads/nagios-4.0.8/base'
make[1]: Leaving directory `/root/downloads/nagios-4.0.8/base'
cd ./cgi & make install
make[1]: Entering directory `/root/downloads/nagios-4.0.8/cgi'
make install-basic
make[2]: Entering directory `/root/downloads/nagios-4.0.8/cgi'
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/sbin
for file in *.cgi; do \
    /bin/install -c -m 775 -o nagios -g nagios $file /usr/local/nagios/sbin; \
```

```
*** Exfoliation theme installed ***
NOTE: Use 'make install-classicui' to revert to classic Nagios theme

make[1]: Leaving directory `/root/downloads/nagios-4.0.8'
make install-basic
make[1]: Entering directory `/root/downloads/nagios-4.0.8'
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var/archives
/bin/install -c -m 775 -o nagios -g nagioscmd -d /usr/local/nagios/var/spool/checkresults
chmod g+s /usr/local/nagios/var/spool/checkresults

*** Main program, CGIs and HTML files installed ***

You can continue with installing Nagios as follows (type 'make'
without any arguments for a list of all possible options):

make install-init
  - This installs the init script in /etc/rc.d/init.d

make install-commandmode
  - This installs and configures permissions on the
    directory for holding the external command file

make install-config
  - This installs sample config files in /usr/local/nagios/etc

make[1]: Leaving directory `/root/downloads/nagios-4.0.8'
[root@ip-172-31-83-136 nagios-4.0.8]#
```

## ● make install-init

```
[root@ip-172-31-83-136 nagios-4.0.8]# make install-init
/bin/install -c -m 755 -d -o root -g root /etc/rc.d/init.d
/bin/install -c -m 755 -o root -g root daemon-init /etc/rc.d/init.d/nagios

*** Init script installed ***

[root@ip-172-31-83-136 nagios-4.0.8]#
```

## ● make install-config

```
[root@ip-172-31-83-136 nagios-4.0.8]# make install-config
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc/objects
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/nagios.cfg /usr/local/nagios/etc/nagios.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/cgi.cfg /usr/local/nagios/etc/cgi.cfg
/bin/install -c -b -m 660 -o nagios -g nagios sample-config/resource.cfg /usr/local/nagios/etc/resource.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/templates.cfg /usr/local/nagios/etc/objects/templates.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/commands.cfg /usr/local/nagios/etc/objects/commands.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/contacts.cfg /usr/local/nagios/etc/objects/contacts.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/timeperiods.cfg /usr/local/nagios/etc/objects/timeperiods.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/localhost.cfg /usr/local/nagios/etc/objects/localhost.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/windows.cfg /usr/local/nagios/etc/objects/windows.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/printer.cfg /usr/local/nagios/etc/objects/printer.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/switch.cfg /usr/local/nagios/etc/objects/switch.cfg

*** Config files installed ***

Remember, these are *SAMPLE* config files. You'll need to read
the documentation for more information on how to actually define
services, hosts, etc. to fit your particular needs.

[root@ip-172-31-83-136 nagios-4.0.8]#
```

## ● make install-commandmode

```
[root@ip-172-31-83-136 nagios-4.0.8]# make install-commandmode
/bin/install -c -m 775 -o nagios -g nagioscmd -d /usr/local/nagios/var/rw
chmod g+s /usr/local/nagios/var/rw

*** External command directory configured ***

[root@ip-172-31-83-136 nagios-4.0.8]#
```

- make install-webconf

```
[root@ip-172-31-83-136 nagios-4.0.8]# make install-webconf
/bin/install -c -m 644 sample-config/httpd.conf /etc/httpd/conf.d/nagios.conf

*** Nagios/Apache conf file installed ***

[root@ip-172-31-83-136 nagios-4.0.8]#
```

- htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin

```
[root@ip-172-31-83-136 nagios-4.0.8]# htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
[root@ip-172-31-83-136 nagios-4.0.8]#
```

- service httpd restart

```
[root@ip-172-31-83-136 nagios-4.0.8]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-83-136 nagios-4.0.8]#
```

- cd ~/downloads
- tar zxvf nagios-plugins-2.3.3.tar.gz

```
[root@ip-172-31-83-136 nagios-4.0.8]# cd ~/downloads
[root@ip-172-31-83-136 downloads]# tar zxvf nagios-plugins-2.3.3.tar.gz
nagios-plugins-2.3.3/
nagios-plugins-2.3.3/perlmods/
nagios-plugins-2.3.3/perlmods/Config-Tiny-2.14.tar.gz
nagios-plugins-2.3.3/perlmods/parent-0.226.tar.gz
nagios-plugins-2.3.3/perlmods/Test-Simple-0.98.tar.gz
nagios-plugins-2.3.3/perlmods/Makefile.in
nagios-plugins-2.3.3/perlmods/version-0.9903.tar.gz
nagios-plugins-2.3.3/perlmods/Makefile.am
nagios-plugins-2.3.3/perlmods/Module-Runtime-0.013.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Metadata-1.000014.tar.gz
nagios-plugins-2.3.3/perlmods/Params-Validate-1.08.tar.gz
nagios-plugins-2.3.3/perlmods/Class-Accessor-0.34.tar.gz
nagios-plugins-2.3.3/perlmods/Try-Tiny-0.18.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Implementation-0.07.tar.gz
nagios-plugins-2.3.3/perlmods/Makefile
nagios-plugins-2.3.3/perlmods/Perl-OSType-1.003.tar.gz
nagios-plugins-2.3.3/perlmods/install_order
nagios-plugins-2.3.3/perlmods/Nagios-Plugin-0.36.tar.gz
nagios-plugins-2.3.3/perlmods/Math-Calc-Units-1.07.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Build-0.4007.tar.gz

nagios-plugins-2.3.3/plugins-scripts/check_ssl_validity.pl
nagios-plugins-2.3.3/plugins-scripts/check_flexlm.pl
nagios-plugins-2.3.3/plugins-scripts/check_rpc.pl
nagios-plugins-2.3.3/plugins-scripts/check_oracle.sh
nagios-plugins-2.3.3/plugins-scripts/utils.pm.in
nagios-plugins-2.3.3/plugins-scripts/check_disk_smb.pl
nagios-plugins-2.3.3/plugins-scripts/t/
nagios-plugins-2.3.3/plugins-scripts/t/check_ifoperstatus.t
nagios-plugins-2.3.3/plugins-scripts/t/check_rpc.t
nagios-plugins-2.3.3/plugins-scripts/t/check_file_age.t
nagios-plugins-2.3.3/plugins-scripts/t/check_disk_smb.t
nagios-plugins-2.3.3/plugins-scripts/t/check_ifstatus.t
nagios-plugins-2.3.3/plugins-scripts/t/utils.t
nagios-plugins-2.3.3/plugins-scripts/check_mailq.pl
nagios-plugins-2.3.3/plugins-scripts/check_wave.pl
nagios-plugins-2.3.3/plugins-scripts/check_ircd.pl
nagios-plugins-2.3.3/plugins-scripts/utils.sh.in
nagios-plugins-2.3.3/plugins-scripts/check_ifstatus.pl
nagios-plugins-2.3.3/plugins-scripts/check_sensors.sh
nagios-plugins-2.3.3/pkg/
nagios-plugins-2.3.3/pkg/fedora/
nagios-plugins-2.3.3/pkg/fedora/requires
nagios-plugins-2.3.3/pkg/solaris/
nagios-plugins-2.3.3/pkg/solaris/preinstall
nagios-plugins-2.3.3/pkg/solaris/solpk
nagios-plugins-2.3.3/pkg/solaris/pkginfo.in
nagios-plugins-2.3.3/pkg/solaris/pkginfo
nagios-plugins-2.3.3/pkg/redhat/
nagios-plugins-2.3.3/pkg/redhat/requirements
[root@ip-172-31-83-136 downloads]#
```

- cd nagios-plugins-2.3.3

```
[root@ip-172-31-83-136 downloads]# cd nagios-plugins-2.3.3
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# █
```

- ./configure --with-nagios-user=nagios --with-nagios-group=nagios

```
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# ./configure --with-nagios-user=nagios --with-nagios-group=nagios
checking for a BSD-compatible install ... /bin/install -c
checking whether build environment is sane ... yes
checking for a thread-safe mkdir -p ... /bin/mkdir -p
checking for gawk ... gawk
checking whether make sets $(MAKE) ... yes
checking whether to disable maintainer-specific portions of Makefiles ... yes
checking build system type ... x86_64-unknown-linux-gnu
checking host system type ... x86_64-unknown-linux-gnu
checking for gcc ... gcc
checking for C compiler default output file name ... a.out
checking whether the C compiler works ... yes
checking whether we are cross compiling ... no
checking for suffix of executables ...
checking for suffix of object files ... o
checking whether we are using the GNU C compiler ... yes
checking whether gcc accepts -g ... yes
checking for gcc option to accept ISO C89 ... none needed
checking for style of include used by make ... GNU
checking dependency style of gcc ... gcc3
checking how to run the C preprocessor ... gcc -E
checking for grep that handles long lines and -e ... /bin/grep
checking for egrep ... /bin/grep -E
checking for Minix Amsterdam compiler ... no
checking for ar ... ar
checking for ranlib ... ranlib
checking whether gcc and cc understand -c and -o together ... yes
checking for ANSI C header files ... yes
checking for sys/types.h ... yes
checking for sys/stat.h ... yes
checking for stdlib.h... yes

configure: creating ./config.status
config.status: creating gl/Makefile
config.status: creating nagios-plugins.spec
config.status: creating tools/build_perl_modules
config.status: creating Makefile
config.status: creating tap/Makefile
config.status: creating lib/Makefile
config.status: creating plugins/Makefile
config.status: creating lib/tests/Makefile
config.status: creating plugins-root/Makefile
config.status: creating plugins-scripts/Makefile
config.status: creating plugins-scripts/utils.pm
config.status: creating plugins-scripts/utils.sh
config.status: creating perlmods/Makefile
config.status: creating test.pl
config.status: creating pkg/solaris/pkginfo
config.status: creating po/Makefile.in
config.status: creating config.h
config.status: config.h is unchanged
config.status: executing depfiles commands
config.status: executing libtool commands
config.status: executing po-directories commands
config.status: creating po/POTFILES
config.status: creating po/Makefile
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# █
```

- make

```
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# make
make all-recursive
make[1]: Entering directory `/root/downloads/nagios-plugins-2.3.3'
Making all in gl
make[2]: Entering directory `/root/downloads/nagios-plugins-2.3.3/gl'
rm -f alloca.h-t alloca.h && \
{ echo '/* DO NOT EDIT! GENERATED AUTOMATICALLY! */'; \
  cat ./alloca.in.h; \
} > alloca.h-t && \
mv -f alloca.h-t alloca.h
rm -f c++defs.h-t c++defs.h && \
sed -n -e '/_GL_CXXDEFS/,${p}' \
< ../build-aux/snippet/c++defs.h \
> c++defs.h-t && \
mv c++defs.h-t c++defs.h
rm -f warn-on-use.h-t warn-on-use.h && \
sed -n -e '/^.ifndef/,${p}' \
```

- make install

```
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# make install
Making install in gl
make[1]: Entering directory `/root/downloads/nagios-plugins-2.3.3/gl'
make install-recursive
make[2]: Entering directory `/root/downloads/nagios-plugins-2.3.3/gl'
make[3]: Entering directory `/root/downloads/nagios-plugins-2.3.3/gl'
make[4]: Entering directory `/root/downloads/nagios-plugins-2.3.3/gl'
if test yes = no; then \
  case 'linux-gnu' in \
    darwin[56]*) \
      need_charset_alias=true ;; \
    darwin* | cygwin* | mingw* | pw32* | cegcc*) \
      need_charset_alias=false ;; \
  *) \
      need_charset_alias=true ;; \
  esac ; \
else \
  need_charset_alias=false ; \
fi ; \
if $need_charset_alias; then \
/bin/sh .../build-aux/mkinstalldirs /usr/local/nagios/lib ; \
fi ; \
if test -f /usr/local/nagios/lib/charset.alias; then \
  sed -f ref-add.sed /usr/local/nagios/lib/charset.alias > /usr/local/nagios/lib/charset.tmp ; \
/bin/install -c -o nagios -g nagios -m 644 /usr/local/nagios/lib/charset.tmp /usr/local/nagios/lib/charset.alias ; \
  rm -f /usr/local/nagios/lib/charset.tmp ; \
else \
  if $need_charset_alias; then \
    sed -f ref-add.sed charset.alias > /usr/local/nagios/lib/charset.tmp ; \
    /bin/install -c -o nagios -g nagios -m 644 /usr/local/nagios/lib/charset.tmp /usr/local/nagios/lib/charset.alias ; \
    rm -f /usr/local/nagios/lib/charset.tmp ; \
  fi ; \
make[2]: Nothing to be done for `install-data-am'.
make[2]: Leaving directory `/root/downloads/nagios-plugins-2.3.3/plugins-root'
make[1]: Leaving directory `/root/downloads/nagios-plugins-2.3.3/plugins-root'
Making install in po
make[1]: Entering directory `/root/downloads/nagios-plugins-2.3.3/po'
/bin/mkdir -p /usr/local/nagios/share
installing fr.gmo as /usr/local/nagios/share/locale/fr/LC_MESSAGES/nagios-plugins.mo
installing de.gmo as /usr/local/nagios/share/locale/de/LC_MESSAGES/nagios-plugins.mo
if test "nagios-plugins" = "gettext-tools"; then \
/bin/mkdir -p /usr/local/nagios/share/gettext/po; \
for file in Makefile.in.in remove-potcdate.sin Makevars.template; do \
  /bin/install -c -o nagios -g nagios -m 644 ./${file} \
    /usr/local/nagios/share/gettext/po/${file}; \
done; \
for file in Makevars; do \
  rm -f /usr/local/nagios/share/gettext/po/${file}; \
done; \
else \
:; \
fi
make[1]: Leaving directory `/root/downloads/nagios-plugins-2.3.3/po'
make[1]: Entering directory `/root/downloads/nagios-plugins-2.3.3'
make[2]: Entering directory `/root/downloads/nagios-plugins-2.3.3'
make[2]: Nothing to be done for `install-exec-am'.
make[2]: Nothing to be done for `install-data-am'.
make[2]: Leaving directory `/root/downloads/nagios-plugins-2.3.3'
make[1]: Leaving directory `/root/downloads/nagios-plugins-2.3.3'
[root@ip-172-31-83-136 nagios-plugins-2.3.3]#
```

- `chkconfig --add nagios`
- `chkconfig nagios on`

```
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# chkconfig --add nagios
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# chkconfig nagios on
[root@ip-172-31-83-136 nagios-plugins-2.3.3]#
```

- `/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg`

```
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

Nagios Core 4.0.8
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Last Modified: 08-12-2014
License: GPL

Website: http://www.nagios.org
Reading configuration data ...
  Read main config file okay ...
  Read object config files okay ...

Running pre-flight check on configuration data ...

Checking objects ...
  Checked 8 services.
  Checked 1 hosts.
  Checked 1 host groups.
  Checked 0 service groups.
  Checked 1 contacts.
  Checked 1 contact groups.
  Checked 24 commands.
  Checked 5 time periods.
  Checked 0 host escalations.
  Checked 0 service escalations.

Checking for circular paths ...
  Checked 1 hosts
  Checked 0 service dependencies
  Checked 0 host dependencies
  Checked 5 timeperiods
Checking global event handlers ...
Checking obsessive compulsive processor commands ...
Checking misc settings ...

Total Warnings: 0
Total Errors: 0

Things look okay - No serious problems were detected during the pre-flight check
[root@ip-172-31-83-136 nagios-plugins-2.3.3]#
```

- `service nagios start`
- `service httpd restart`

```
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# service nagios start
Starting nagios (via systemctl): [ OK ]
[root@ip-172-31-83-136 nagios-plugins-2.3.3]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-83-136 nagios-plugins-2.3.3]#
```

**3. Login to Nagios dashboard and just list any 5 services available on the dashboard.**

## **Step 1: Open our EC2 instance and Copy Public IPv4 DNS.**

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with links like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and a expanded 'Instances' section with 'Instances' (New), Instance Types, and Launch Templates. The main content area has a breadcrumb path: EC2 > Instances > i-0fb79d784921ab9b9. Below the path is the 'Instance summary for i-0fb79d784921ab9b9 (dawoodNagios)' section. It includes a toolbar with 'Connect', 'Instance state' dropdown (set to Stopping), and 'Actions' dropdown. The summary table has three columns: Instance ID, Public IPv4 address, and Private IPv4 addresses. The Instance ID row shows 'i-0fb79d784921ab9b9 (dawoodNagios)'. The Public IPv4 address row shows '44.203.71.166 | open address'. The Private IPv4 addresses row shows 'ec2-44-203-71-166.compute-1.amazonaws.com | open address'. A tooltip for the private IP address says 'Public IPv4 DNS copied'.

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0fb79d784921ab9b9 (dawoodNagios)	44.203.71.166   open address	ec2-44-203-71-166.compute-1.amazonaws.com   open address
IPv6 address	Instance state	
-	Stopping	
Hostname type	Private IP DNS name (IPv4 only)	
IP name: ip-172-31-83-136.ec2.internal	ip-172-31-83-136.ec2.internal	

**Step 2:** In the new tab open Public IPv4 DNS /nagios, then Enter Username and Password to Sign in.

A screenshot of a web browser window. The address bar shows the URL "ec2-52-91-18-6.compute-1.amazonaws.com/nagios". A modal dialog box is displayed over the page, titled "Sign in to access this site". The dialog contains the message "Authorization required by http://ec2-52-91-18-6.compute-1.amazonaws.com Your connection to this site is not secure". It has two input fields: "Username" containing "nagiosadmin" and "Password" containing a masked value. At the bottom are "Sign in" and "Cancel" buttons.

### **Step 3: Services available of nagios Dashboard**

The screenshot shows the Nagios XI interface with the 'Network Status Map' selected. The top navigation bar includes links for Home, Views, Dashboards, Reports, Configure, Tools, Help, Admin, and user authentication. The left sidebar contains sections for Favorites, Quick View, and Details, along with a list of network outages. The main area displays a detailed network map with various hosts (routers, switches, servers) and services (HTTP, SSH, NTP, etc.) represented by icons. A legend on the right identifies colors for different host states (green, yellow, red) and service states (green, yellow, red). The map shows connections between hosts like 'centos-switch.nagios.local', 'rhel-switch.nagios.local', and 'windows-switch.nagios.local', and their associated services.

## Tactical Overview

**Network Outages**

- 0 Outages
- No Blocking Outages

**Network Health**

- Host Health: 75% (Yellow)
- Service Health: 75% (Yellow)

Last Updated: 2022-10-11 12:01:05

**Hosts**

21 Down	0 Unreachable	57 Up	6 Pending
17 Unhandled Problems		17 Active 40 Passive	6 Passive
4 Acknowledged			
20 Active			
1 Passive			

**Services**

171 Critical	70 Warning	34 Unknown	856 Ok	5 Pending
115 Unhandled Problems	66 Unhandled Problems	3 Unhandled Problems	311 Active 545 Passive	5 Passive
51 On Problem Hosts	3 On Problem Hosts	31 On Problem Hosts		
29 Acknowledged	1 Acknowledged	14 Acknowledged		
78 Active	2 Active	34 Active		
93 Passive	68 Passive			

## Nagios® Operations Center

Last Update: Tue Oct 11 2022 22:33:06 GMT+0530 (India Standard Time)

	Up	D	UR	Pe	UH	Pr	All	Ok	W	Cr	UK	Pe	UH	Pr	All
Hosts:	57	21	0	6	17	21	84	856	70	171	34	5	184	275	1136

Host	Hostgroup	Servicegroup	Service State
Additional Filters	Select Additional Filters	Filter	Clear filters

Host Name	Duration	Status Information
www.acme.com	1562d 0h 24m 28s	CRITICAL - 216.27.178.28: rta nan, lost 100%
www.chaoticmoon.com	1222d 23h 38m 24s	check_http: Invalid hostname/address - www.chaoticmoon.com
europa.nagios.local	798d 1h 58m 21s	CRITICAL - 192.168.4.54: Host unreachable @ 192.168.5.66. rta nan, lost 100%
ya.ru	23d 10h 9m 39s	CRITICAL - Socket timeout
192.168.1.1	20d 8h 57m 22s	CRITICAL - 192.168.1.1: rta nan, lost 100%
41.223.232.2	18d 7h 42m 19s	CRITICAL - 41.223.232.2: rta nan, lost 100%
54.169.181.36	18d 1h 17m 29s	CRITICAL - 54.169.181.36: rta nan, lost 100%
10.10.2.34	18d 0h 12m 46s	CRITICAL - 10.10.2.34: rta nan, lost 100%
192.168.0.11	17d 4h 53m 45s	CRITICAL - 192.168.0.11: rta nan, lost 100%

## Service Status

All services

**Host Status Summary**

Up	Down	Unreachable	Pending
57	21	0	6
17	21	84	

Last Updated: 2022-10-11 12:01:42

Showing 1-1000 of 1136 total records

Host	Service	Status	Duration	Attempts	Last Check	Status Information
fedora-switch.nagios.local	Port 8 Status	Pending	N/A	1/1	N/A	No check results for service yet...
someshost	someservice	Pending	N/A	1/1	N/A	No check results for service yet...
switch27.nagios.local	Port 20 Status	Pending	N/A	1/1	N/A	No check results for service yet...
windows-switch.nagios.local	Port 9 Status	Pending	N/A	1/1	N/A	No check results for service yet...
10.10.2.34	SNMP Traps	Ok	N/A	1/1	2022-10-04 08:04:58	Waiting for trap...
localhost	Current Users	Ok	4626d 13h 47m 58s	1/4	2022-10-11 12:00:52	USERS OK - 0 users currently logged in
	PING	Ok	4626d 13h 46m 43s	1/4	2022-10-11 11:58:47	PING OK - Packet loss = 0%, RTA = 0.06 ms
						HTTP CRITICAL: HTTP/1.1 200 OK - string 'foobar' not found

**Service Group Status**

**Host Status Summary**

Up	Down	Unreachable	Pending
57	21	0	6
Unhandled	Problems	All	
17	21	84	

Last Updated: 2022-10-11 12:20:54

**Service Status Summary**

Ok	Warning	Unknown	Critical	Pending
856	70	34	171	5
Unhandled	Problems	All		
231	275	1136		

Last Updated: 2022-10-11 12:20:54

**Disk (Disk)**

Host	Status	Services
Log-Server.nagios.local	Up	/ Disk Usage Swap Usage
Log-Server2.nagios.local	Up	Swap Usage
Network-Analyzer.nagios.local	Up	/ Disk Usage Swap Usage
Network-Analyzer2.nagios.local	Up	Swap Usage
centos1.nagios.local	Up	/ Disk Usage Swap Usage
centos2.nagios.local	Up	Swap Usage
centos3.nagios.local	Up	/ Disk Usage
centos4.nagios.local	Up	/ Disk Usage Swap Usage
centos5.nagios.local	Up	/ Disk Usage Swap Usage
fedoral1.nagios.local	Up	/ Disk Usage Swap Usage

**Websites (HTTP)**

Host	Status	Services
localhost	Up	HTTP
secure.nagios.com	Up	HTTP
vsi.nagios.org	Up	HTTP
www.choticmoen.com	Down	HTTP
www.nagios.com	Up	HTTP

Last Updated: 2022-10-11 12:20:55

**Ping Services (ICMP)**

Host	Status	Services
------	--------	----------

## Terminating EC2 Instance

New EC2 Experience Tell us what you think

Instances (1/1) Info

Terminate instance?

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

i-0fb79d784921ab9b9 (dawoodNagios)

To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.

Cancel Terminate

## EC2 Instance is Terminated

New EC2 Experience Tell us what you think

Successfully terminated i-0fb79d784921ab9b9

Instances (1/1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
dawoodNagios	i-0fb79d784921ab9b9	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-1b