

## EXPERIMENT-10

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**BRANCH:** T.E. INFORMATION TECHNOLOGY (SEM 5)

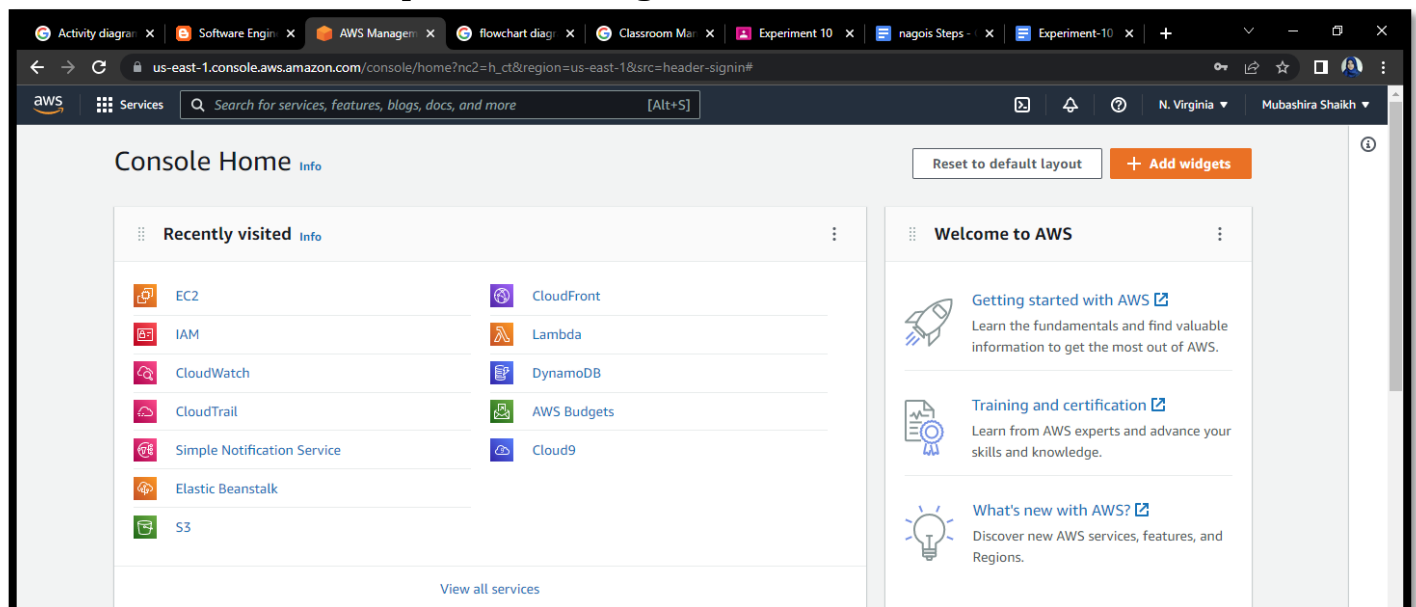
### 1. What is Nagios? Comment on why we need Nagios tool?

→ 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 to send alerts when the issue is identified.

#### Need of Nagios:

- Nagios can describe the event handler that executes at the time of host events or services to take a resolution for proactive problems. It is also used to support redundancy in monitoring hosts.
- It can also be monitored in hardware tools like a probe for alarm, a temperature that can send collected information through the network by configured written plugins. The remote monitoring can be established through Nagios remote plugin executor via SSL and SSH encrypted channels. The automated rotation of log files and parallel execution of service checks can be made using Nagios.
- Nagios performs the process on the database backend, data graphing and implements redundancy in monitoring the host. The web interface to view the current status of the network, problem history, notification manager, files, logs, etc
- Nagios has other services like Nagios Remote Plugin Executor abbreviated as NRPE, Nagios Remote Data processor (NRDP), Nagios Cross-Platform Agent, and for windows client machines it uses NSClient++.

### Step 1: AWS Management Console Dashboard.



## Step 2: Search for EC2 → Click on Launch instance → Give a name to your instance and create an Amazon Linux instance with 2AMI version.

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia Mubashira Shaikh

You've been opted into the new launch experience. You can return to the previous version, but next time you log in, you'll automatically be opted into the new experience. Find out more or send us feedback. Starting October 1, 2022, we will begin decommissioning the previous version. Opt out to the old experience

EC2 > Instances > Launch an instance

### Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags**

Name: Mubashira Add additional tags

**Summary**

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI...read more  
ami-026b57f3c383c2eec

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

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**Application and OS Images (Amazon Machine Image)**

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

**Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat S

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type  
ami-026b57f3c383c2eec (64-bit (x86)) / ami-0636eac5d73e0e5d7 (64-bit (Arm))  
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

**Summary**

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI...read more  
ami-026b57f3c383c2eec

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the

## Step 3: Create new key pair for your instance.

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**Create key pair**

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more

Key pair name: Nagios

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type:

- ☒ RSA  
RSA encrypted private and public key pair
- ☐ ED25519  
ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format:

- ☒ .pem  
For use with OpenSSH
- ☐ .ppk  
For use with PuTTY

Cancel Create key pair

#### Step 4: Network Settings → allow the HTTPS and HTTP traffic → Click on edit.

The screenshot shows the AWS Management Console interface for configuring a new instance. The 'Network settings' section is expanded, showing options for Network, Subnet, Auto-assign public IP, and Firewall (security groups). The 'Firewall (security groups)' section is selected, and the 'Create security group' option is chosen. The 'Edit' button is circled in red. The 'Summary' section on the right shows the instance configuration, including the number of instances, software image, virtual server type, firewall, and storage.

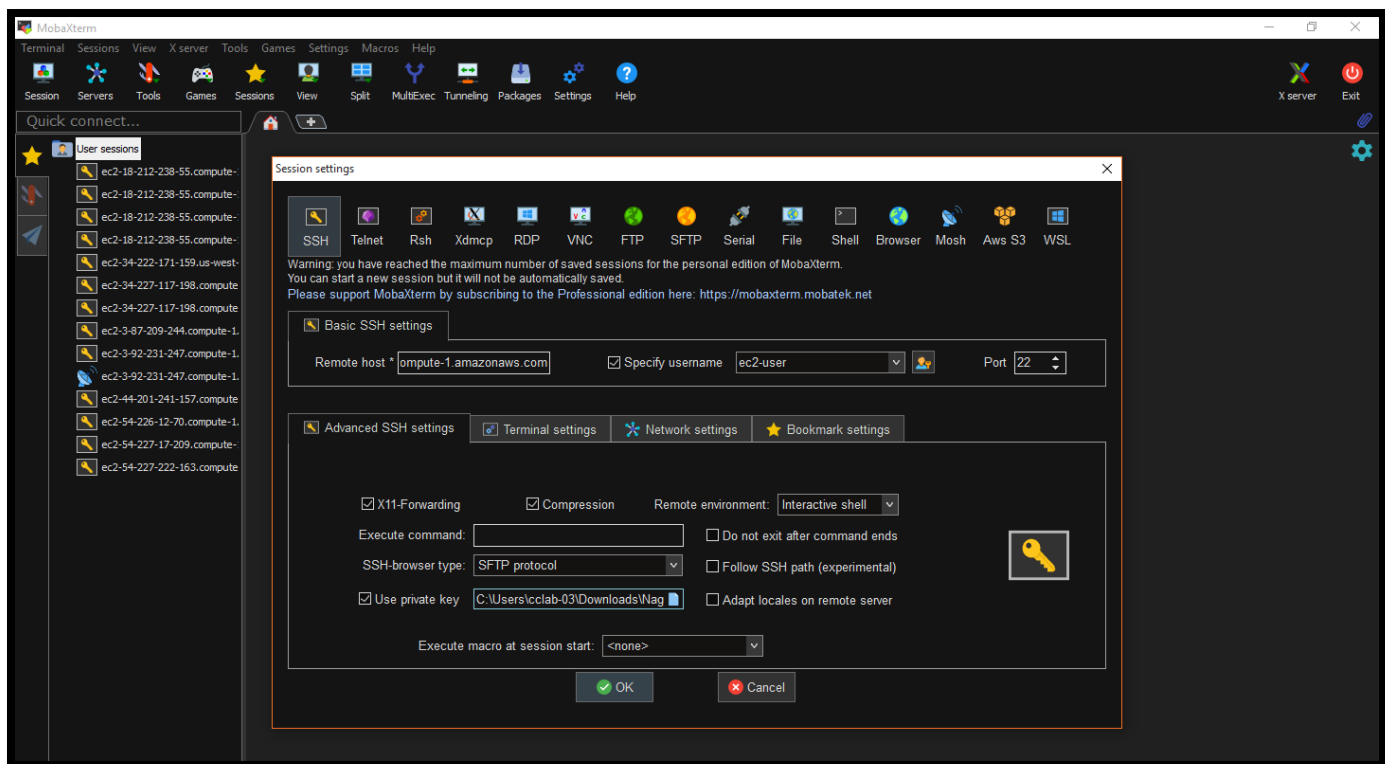
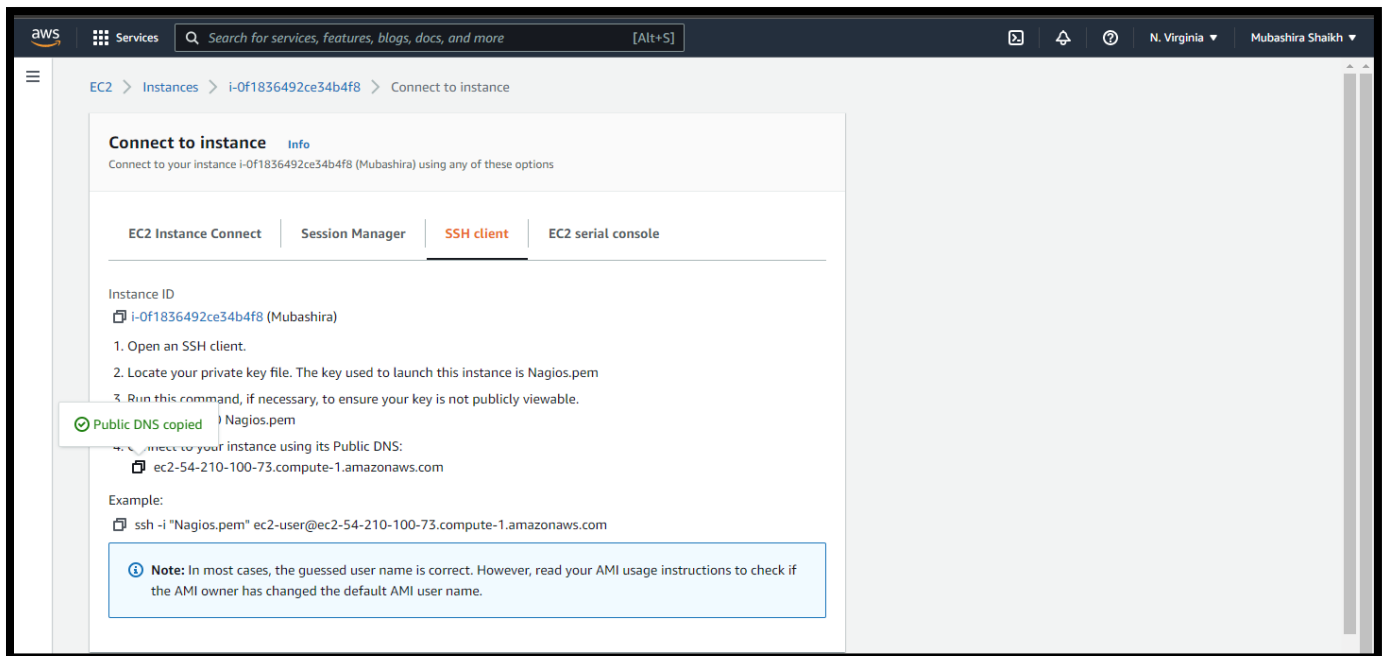
#### Step 5: Click on “Add security group rule” → In Type select “All TCP” → In source type choose “Anywhere”.

The screenshot shows the 'Add security group rule' dialog box. The 'Type' is set to 'All TCP', the 'Protocol' is 'TCP', and the 'Port range' is '0-65535'. The 'Source type' is set to 'Anywhere', and the 'Source' is '0.0.0.0/0'. The 'Description' is 'e.g. SSH for admin desktop'. The 'Add security group rule' button is circled in red. A warning message is displayed: 'Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.'

#### Step 6: Launch the instance.

The screenshot shows the 'Launch an instance' page in the AWS Management Console. A success message is displayed: 'Successfully initiated launch of instance (i-0f1836492ce34b4f8)'. The 'Launch log' link is visible below the message. A banner at the top indicates that the user has been opted into the new launch experience and provides a link to opt out.

## Step 7: Launch MobaXterm→Select SSH session→Copy the public DNS of your instance and paste it into the remote host. Use the downloaded key pair as the private key.



**Step 8: Run the following commands for Nagios installation on EC2 Linux**

```
⇒ sudo su
⇒ yum install httpd php
⇒ yum install gcc glibc glibc-common
⇒ yum install gd gd-devel
⇒ adduser -m nagios
⇒ passwd nagios
⇒ groupadd nagioscmd
⇒ usermod -a -G nagioscmd nagios
⇒ usermod -a -G nagioscmd apache
⇒ mkdir ~/downloads
⇒ cd ~/downloads
⇒ wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
⇒ wget http://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz
⇒ tar zxvf nagios-4.0.8.tar.gz
⇒ cd nagios-4.0.8
⇒ ./configure --with-command-group=nagioscmd
⇒ make all
⇒ make install
⇒ make install-init
⇒ make install-config
⇒ make install-commandmode
⇒ make install-webconf
⇒ htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
⇒ service httpd restart
⇒ cd ~/downloads
⇒ tar zxvf nagios-plugins-2.3.3.tar.gz
⇒ cd nagios-plugins-2.3.3
⇒ ./configure --with-nagios-user=nagios --with-nagios-group=nagios
⇒ make
⇒ make install
⇒ chkconfig --add nagios
⇒ chkconfig nagios on
⇒ /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
⇒ service nagios start
⇒ service httpd restart
```

```
2. ec2-54-210-100-73.compute-1.amazonaws.com x
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-91-8 ~]$ sudo su
[root@ip-172-31-91-8 ec2-user]# yum install httpd php
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
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 = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd 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: libaprutil1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: libapr1.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-httpd.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
--> Processing Dependency: libzip.so.2()(64bit) for package: php-common-5.4.16-46.amzn2.0.2.x86_64
--> Running transaction check
--> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Package libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
httpd x86_64 2.4.54-1.amzn2 amzn2-core 1.4 M
php x86_64 5.4.16-46.amzn2.0.2 amzn2-core 1.4 M
Installing for dependencies:
apr x86_64 1.7.0-9.amzn2 amzn2-core 122 k
apr-util x86_64 1.6.1-5.amzn2.0.2 amzn2-core 99 k
=====
```

```
2. ec2-54-210-100-73.compute-1.amazonaws.com x
Completed!
[root@ip-172-31-91-8 ec2-user]# yum install gcc glibc glibc-common
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package glibc-2.26-60.amzn2.x86_64 already installed and latest version
Package glibc-common-2.26-60.amzn2.x86_64 already installed and latest version
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: libsanitizer ≥ 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: libcilkrts ≥ 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 libcilkrts.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 libsanitizer.x86_64 0:7.3.1-15.amzn2 will be installed
--> Package mpfr.x86_64 0:3.1.1-4.amzn2.0.2 will be installed
--> Running transaction check
--> Package glibc-headers.x86_64 0:2.26-60.amzn2 will be installed
--> Processing Dependency: kernel-headers ≥ 2.2.1 for package: glibc-headers-2.26-60.amzn2.x86_64
--> Processing Dependency: kernel-headers for package: glibc-headers-2.26-60.amzn2.x86_64
--> Running transaction check
--> Package kernel-headers.x86_64 0:5.10.135-122.509.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
gcc x86_64 7.3.1-15.amzn2 amzn2-core 22 M
=====
```



```
ls Games Settings Macros Help
sessions View Split MultiExec Tunneling Packages Settings Help

[2.ec2-54-210-100-73.compute-1.amazonaws.com]
[root@ip-172-31-91-8 ec2-user]# clear
[root@ip-172-31-91-8 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
--> Processing Dependency: dejavu-sans-fonts for package: fontconfig-2.13.0-4.3.amzn2.x86_64
--> Package fontconfig-devel.x86_64 0:2.13.0-4.3.amzn2 will be installed
--> Processing Dependency: pkgconfig(uuid) for package: fontconfig-devel-2.13.0-4.3.amzn2.x86_64
--> Processing Dependency: pkgconfig(expat) for package: fontconfig-devel-2.13.0-4.3.amzn2.x86_64
--> Package freetype-devel.x86_64 0:2.8.14.amzn2.1 will be installed
--> Package libX11.x86_64 0:1.6.7-3.amzn2.0.2 will be installed
--> Processing Dependency: libX11-common >= 1.6.7-3.amzn2.0.2 for package: libX11-1.6.7-3.amzn2.0.2.x86_64
--> Processing Dependency: libxcb.so.1()(64bit) for package: libX11-1.6.7-3.amzn2.0.2.x86_64
--> Package libX11-devel.x86_64 0:1.6.7-3.amzn2.0.2 will be installed
--> Processing Dependency: pkgconfig(xcb) >= 1.11.1 for package: libX11-devel-1.6.7-3.amzn2.0.2.x86_64
--> Processing Dependency: pkgconfig(xproto) for package: libX11-devel-1.6.7-3.amzn2.0.2.x86_64
--> Processing Dependency: pkgconfig(xcb) for package: libX11-devel-1.6.7-3.amzn2.0.2.x86_64
--> Processing Dependency: pkgconfig(kbproto) for package: libX11-devel-1.6.7-3.amzn2.0.2.x86_64
--> Package libXpm.x86_64 0:3.5.12-1.amzn2.0.2 will be installed
--> Package libXpm-devel.x86_64 0:3.5.12-1.amzn2.0.2 will be installed
--> Processing Dependency: libXt.so.6()(64bit) for package: libXpm-devel-3.5.12-1.amzn2.0.2.x86_64
--> Processing Dependency: libXext.so.6()(64bit) for package: libXpm-devel-3.5.12-1.amzn2.0.2.x86_64
--> Package libjpeg-turbo-devel.x86_64 0:2.0.90-2.amzn2.0.1 will be installed
--> Package libpng-devel.x86_64 2:1.5.13-8.amzn2 will be installed
--> Package zlib-devel.x86_64 0:1.2.7-19.amzn2.0.1 will be installed
--> Running transaction check
--> Package dejavu-sans-fonts.noarch 0:2.33-6.amzn2 will be installed
--> Processing Dependency: dejavu-fonts-common = 2.33-6.amzn2 for package: dejavu-sans-fonts-2.33-6.amzn2.noarch
--> Package expat-devel.x86_64 0:2.1.0-14.amzn2.0.1 will be installed
--> Package fontpackages-filesystem.noarch 0:1.44-8.amzn2 will be installed
--> Package libX11-common.noarch 0:1.6.7-3.amzn2.0.2 will be installed
--> Package libXext.x86_64 0:1.3.3-3.amzn2.0.2 will be installed
```

```
ls Games Settings Macros Help
sessions View Split MultiExec Tunneling Packages Settings Help

[2.ec2-54-210-100-73.compute-1.amazonaws.com]
Complete!
[root@ip-172-31-91-8 ec2-user]# clear
[root@ip-172-31-91-8 ec2-user]# adduser -m nagios
```

```
[root@ip-172-31-91-8 ec2-user]# passwd nagios
Changing password for user nagios.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.

[root@ip-172-31-91-8 ec2-user]# groupadd nagioscmd
[root@ip-172-31-91-8 ec2-user]# usermod -a -G nagioscmd nagios
[root@ip-172-31-91-8 ec2-user]# usermod -a -G nagioscmd apache
[root@ip-172-31-91-8 ec2-user]# mkdir ~/downloads
[root@ip-172-31-91-8 ec2-user]# cd ~/downloads
[root@ip-172-31-91-8 downloads]# wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
--2022-10-01 06:47:39-- 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]
--2022-10-01 06:47:39-- 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]
--2022-10-01 06:47:39-- 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 3.69MB/s in 0.5s

2022-10-01 06:47:40 (3.69 MB/s) - 'nagios-4.0.8.tar.gz' saved [1805059/1805059]

[root@ip-172-31-91-8 downloads]#
```

```
[root@ip-172-31-91-8 downloads]# wget http://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz
--2022-10-01 06:47:56-- 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 8.25MB/s in 0.3s

2022-10-01 06:47:57 (8.25 MB/s) - 'nagios-plugins-2.3.3.tar.gz' saved [2782610/2782610]

[root@ip-172-31-91-8 downloads]#
```

```
s Games Settings Macros Help
sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit

[root@ip-172-31-91-8 downloads]# clear
[root@ip-172-31-91-8 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/LLEGAL
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/nagiosstats.c
nagios-4.0.8/base/nebmods.c
nagios-4.0.8/base/nerd.c
nagios-4.0.8/base/netutils.c
nagios-4.0.8/base/notifications.c
nagios-4.0.8/base/perfdata.c
nagios-4.0.8/base/query-handler.c
nagios-4.0.8/base/sehandlers.c
nagios-4.0.8/base/sretention.c
nagios-4.0.8/base/utils.c
nagios-4.0.8/base/workers.c
nagios-4.0.8/base/wp-phash.c
nagios-4.0.8/base/wpres-phash.h
nagios-4.0.8/base/wpres.gperf
nagios-4.0.8/cgi/
```

```
[root@ip-172-31-91-8 downloads]# cd nagios-4.0.8
[root@ip-172-31-91-8 nagios-4.0.8]# ./configure --with-command-group=nagioscmd
```

```
checking for base computer architecture... x86_64
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
checking for sys/types.h... yes
checking for sys/stat.h... yes
checking for stdlib.h... yes
checking for string.h... yes
checking for memory.h... yes
checking for strings.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
checking for unistd.h... yes
checking arpa/inet.h usability... yes
checking arpa/inet.h presence... yes
checking for arpa/inet.h... yes
checking ctype.h usability... yes
checking ctype.h presence... yes
checking for ctype.h... yes
checking dirent.h usability... yes
checking dirent.h presence... yes
checking for dirent.h... yes
checking errno.h usability... yes
checking errno.h presence... yes
checking for errno.h... yes
checking fcntl.h usability... yes
checking fcntl.h presence... yes
checking for fcntl.h... yes
```



```
[root@ip-172-31-91-8 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 nebmodes.o nebmodes.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 sehndlers.o sehndlers.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]
    if((midnight + 84800 >= start_time && (midnight <= end_time || start_time > end_time)) || (midnight <= end_time && start_time > end_time)) {
    ^
utils.c: In function 'process_check_result_queue':
utils.c:2038:38: warning: 'sprintf' output may be truncated before the last format character [-Wformat-truncation=]
    sprintf(file, sizeof(file), "%s/%s", dirname, dirfile->d_name);
    ^
utils.c:2038:3: note: 'sprintf' output 2 or more bytes (assuming 257) into a destination of size 256
    sprintf(file, sizeof(file), "%s/%s", dirname, dirfile->d_name);
    ^
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o retention-base.o sretention.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o xretention-base.o ../xdata/xrddefault.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o comments-base.o ../common/comments.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o xcomments-base.o ../xdata/xcddefault.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o objects-base.o ../common/objects.c
```

```
[root@ip-172-31-91-8 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 $file /usr/local/nagios/sbin; \
done
make[2]: Leaving directory `/root/downloads/nagios-4.0.8/cgi'
make strip-post-install
make[2]: Entering directory `/root/downloads/nagios-4.0.8/cgi'
for file in *.cgi; do \
    /bin/strip /usr/local/nagios/sbin/$file; \
done
make[2]: Leaving directory `/root/downloads/nagios-4.0.8/cgi'
make[1]: Leaving directory `/root/downloads/nagios-4.0.8/cgi'
cd ./html && make install
make[1]: Entering directory `/root/downloads/nagios-4.0.8/html'
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/media
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/stylesheets
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/contexthelp
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/docs
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/docs/images
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/js
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/images
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/images/logos
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/includes
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/includes/rss
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/includes/rss/extlib
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/ssi
```

```

[root@ip-172-31-91-8 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-172-31-91-8 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-172-31-91-8 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-172-31-91-8 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-172-31-91-8 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-172-31-91-8 nagios-4.0.8]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-91-8 nagios-4.0.8]#

```

```

[root@ip-172-31-91-8 nagios-4.0.8]# cd ~/downloads
[root@ip-172-31-91-8 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/ABOUT-NLS
nagios-plugins-2.3.3/configure.ac
nagios-plugins-2.3.3/Makefile.in
nagios-plugins-2.3.3/config.h.in
nagios-plugins-2.3.3/ChangeLog
nagios-plugins-2.3.3/AUTHORS
nagios-plugins-2.3.3/lib/
nagios-plugins-2.3.3/lib/parse_ini.h
nagios-plugins-2.3.3/lib/extra_opts.c
nagios-plugins-2.3.3/lib/Makefile.in
nagios-plugins-2.3.3/lib/utils_cmd.h
nagios-plugins-2.3.3/lib/utils_tcp.h
nagios-plugins-2.3.3/lib/Makefile.am
nagios-plugins-2.3.3/lib/extra_opts.h
nagios-plugins-2.3.3/lib/utils_tcp.c
nagios-plugins-2.3.3/lib/parse_ini.c
nagios-plugins-2.3.3/lib/utils_cmd.c

```

```

[root@ip-172-31-91-8 downloads]# cd nagios-plugins-2.3.3
[root@ip-172-31-91-8 nagios-plugins-2.3.3]#

```

```
[root@ip-172-31-91-8 downloads]# cd nagios-plugins-2.3.3
[root@ip-172-31-91-8 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
checking for string.h... yes
checking for memory.h... yes
checking for strings.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
checking for unistd.h... yes
checking minix/config.h usability... no
checking minix/config.h presence... no
checking for minix/config.h... no
checking whether it is safe to define __EXTENSIONS__... yes
checking whether _XOPEN_SOURCE should be defined... no
checking for special C compiler options needed for large files... no
checking for _FILE_OFFSET_BITS value needed for large files... no
checking whether gcc needs -traditional... no
checking how to print strings... printf
```

```
nagios-plugins-2.3.3/pkg/redhat/requires
[root@ip-172-31-91-8 downloads]# clear
[root@ip-172-31-91-8 downloads]# cd nagios-plugins-2.3.3
[root@ip-172-31-91-8 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
checking for string.h... yes
checking for memory.h... yes
checking for strings.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
checking for unistd.h... yes
checking minix/config.h usability... no
checking minix/config.h presence... no
checking for minix/config.h... no
checking whether it is safe to define __EXTENSIONS__... yes
checking whether _XOPEN_SOURCE should be defined... no
checking for special C compiler options needed for large files... no
checking for _FILE_OFFSET_BITS value needed for large files... no
```

```

config.status: creating po/POTFILES
config.status: creating po/Makefile
[root@ip-172-31-91-8 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 '/^_ifnndef/, $p' \
< ../build-aux/snippet/warn-on-use.h \
> warn-on-use.h-t && \
mv warn-on-use.h-t warn-on-use.h
rm -f arg-nonnull.h-t arg-nonnull.h && \
sed -n -e '/_GL_ARG_NONNULL/, $p' \
< ../build-aux/snippet/arg-nonnull.h \
> arg-nonnull.h-t && \
mv arg-nonnull.h-t arg-nonnull.h
/bin/mkdir -p arpa
rm -f arpa/inet.h-t arpa/inet.h && \
{ echo '/* DO NOT EDIT! GENERATED AUTOMATICALLY! */'; \
sed -e 's|@'GUARD_PREFIX'|@GL|g' \
-e 's|@'INCLUDE_NEXT'|@include_next|g' \
-e 's|@'PRAGMA_SYSTEM_HEADER'|@#pragma GCC system_header|g' \
-e 's|@'PRAGMA_COLUMNS'|@|g' \
-e 's|@'HAVE_FEATURES_H'|@1|g' \
-e 's|@'NEXT_ARPA_INET_H'|@<arpa/inet.h>|g' \
-e 's|@'HAVE_ARPA_INET_H'|@1|g' \
-e 's|@'GNULIB_INET_NTOP'|@1|g' \
-e 's|@'GNULIB_INET_PTON'|@0|g' \
-e 's|@'HAVE_DECL_INET_NTOP'|@1|g' \
-e 's|@'HAVE_DECL_INET_PTON'|@1|g' \
-e 's|@'REPLACE_INET_NTOP'|@0|g' \
-e 's|@'REPLACE_INET_PTON'|@0|g' \
-e '/definitions of _GL_FUNCDECL_RPL/r c++defs.h' \
-e '/definition of _GL_ARG_NONNULL/r arg-nonnull.h' \
-e '/definition of _GL_WARN_ON_USE/r warn-on-use.h' \
< ./arpa/inet.in.h; \

```

```

[root@ip-172-31-91-8 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 ; \
fi
make[4]: Nothing to be done for `install-data-am'.
make[4]: Leaving directory `/root/downloads/nagios-plugins-2.3.3/gl'
make[3]: Leaving directory `/root/downloads/nagios-plugins-2.3.3/gl'
make[2]: Leaving directory `/root/downloads/nagios-plugins-2.3.3/gl'
make[1]: Leaving directory `/root/downloads/nagios-plugins-2.3.3/gl'
Making install in tap
make[1]: Entering directory `/root/downloads/nagios-plugins-2.3.3/tap'
make[2]: Entering directory `/root/downloads/nagios-plugins-2.3.3/tap'
make[2]: Nothing to be done for `install-exec-am'.
test -z "/usr/local/nagios/include" || /bin/mkdir -p "/usr/local/nagios/include"
make[2]: Leaving directory `/root/downloads/nagios-plugins-2.3.3/tap'
make[1]: Leaving directory `/root/downloads/nagios-plugins-2.3.3/tap'
Making install in lib
make[1]: Entering directory `/root/downloads/nagios-plugins-2.3.3/lib'

```

```
[root@ip-172-31-91-8 nagios-plugins-2.3.3]# chkconfig --add nagios
[root@ip-172-31-91-8 nagios-plugins-2.3.3]# chkconfig nagios on
[root@ip-172-31-91-8 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.

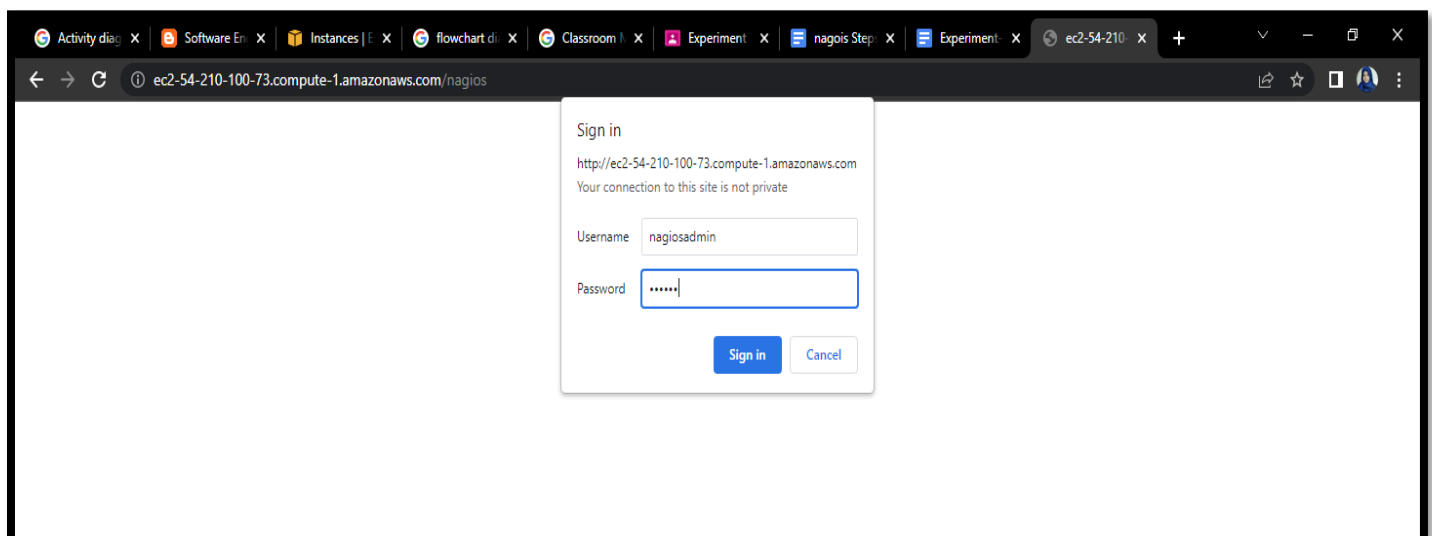
Checking for circular paths ...
  Checked 1 hosts
  Checked 0 service dependencies
  Checked 0 host dependencies
  Checked 5 timeperiods

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-172-31-91-8 nagios-plugins-2.3.3]# service nagios start [ OK ]
Starting nagios (via systemctl):
[root@ip-172-31-91-8 nagios-plugins-2.3.3]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-91-8 nagios-plugins-2.3.3]#
```

**Step 9: Copy the IPV4 address from the EC2 instance details and paste it into a web browser by adding “/nagios.”**  
**Sign in by using**  
**Username→ “nagiosadmin”**  
**Password→ “nagios”**





# Nagios Dashboard will be displayed.

The screenshot shows the Nagios Core 4.0.8 dashboard in a web browser. The browser's address bar shows the URL `ec2-54-210-100-73.compute-1.amazonaws.com/nagios/`. The dashboard has a left sidebar with navigation links: General (Home, Documentation), Current Status (Tactical Overview, Map, Hosts, Services, Host Groups, Summary, Grid, Service Groups, Summary, Grid, Problems, Services (Unhandled), Hosts (Unhandled), Network Outages), Quick Search, Reports (Availability, Trends, Alerts, History, Summary, Histogram, Notifications, Event Log), and System (Comments, Downtime, Process Info, Performance Info, Scheduling Queue, Configuration). The main content area features the Nagios Core logo, a status message "Daemon running with PID 27980", and the version "Nagios® Core™ Version 4.0.8" dated "August 12, 2014" with a "Check for updates" link. A blue banner announces "A new version of Nagios Core is available! Visit nagios.org to download Nagios 4.4.7." Below this are three featured products: Nagios XI (Easy Configuration, Advanced Reporting), Nagios Log Server (Monitor and analyze logs from anywhere), and Nagios Network Analyzer (Real-time netflow and bandwidth analysis), each with a "Download" button. Further down are sections for "Get Started" (a list of steps), "Quick Links" (links to Nagios Library, Nagios Labs, Nagios Exchange, Nagios Support, Nagios.com, and Nagios.org), "Latest News" (updates for Nagios XI 5.6.6, 5.6.5, and 5.6.4), and "Don't Miss..." (links to Nagios Log Data and Nagios Network Analyzer). A "Get started" video player is also visible. The browser's taskbar at the bottom shows the Windows logo, a search bar, and several application icons, with the system clock displaying 12:34 PM on 10/1/2022.

The screenshot displays the Nagios XI Network Status Map dashboard. The top navigation bar includes links for Home, Views, Dashboards, Reports, Configure, Tools, Help, and Admin. The left sidebar contains a "Favorites" section with "My Reports" and "Network Status Map", a "Quick View" section with links to Home Dashboard, Tactical Overview, Birdseye, Operations Center, Operations Screen, Open Service Problems, Open Host Problems, All Service Problems, All Host Problems, and Network Outages, and a "Details" section with links to Service Status, Host Status, Hostgroup Summary, Hostgroup Overview, Hostgroup Grid, Servicegroup Summary, Servicegroup Overview, Servicegroup Grid, BPI, Metrics, Graphs, and Maps. The main content area is titled "Network Status Map" and shows a complex network diagram with various nodes and connections. The nodes are labeled with IP addresses and hostnames, such as "10.10.2.34", "192.168.1.1", "192.168.1.11", "41.223.232.5", "54.159.161.30", "Router", "Nagios Process", "centos-switch.nagios.local", "fedora-switch.nagios.local", "influxdb-switch.nagios.local", "localhost", "mas01.nagios.local", "nagios1.demos.nagios.com", "oncloudhelper.com", "rhel-gateway.nagios.local", "somehost", "test", "windows-switch.nagios.local", "www.google.com", "www.virtmap.org", "ya.ru", "mas01.nagios.local", "mas02.nagios.local", "mas03.nagios.local", "mas04.nagios.local", "mas05.nagios.local", "mas06.nagios.local", "mas07.nagios.local", "mas08.nagios.local", "mas09.nagios.local", "mas10.nagios.local", "mas11.nagios.local", "mas12.nagios.local", "mas13.nagios.local", "mas14.nagios.local", "mas15.nagios.local", "mas16.nagios.local", "mas17.nagios.local", "mas18.nagios.local", "mas19.nagios.local", "mas20.nagios.local", "mas21.nagios.local", "mas22.nagios.local", "mas23.nagios.local", "mas24.nagios.local", "mas25.nagios.local", "mas26.nagios.local", "mas27.nagios.local", "mas28.nagios.local", "mas29.nagios.local", "mas30.nagios.local", "mas31.nagios.local", "mas32.nagios.local", "mas33.nagios.local", "mas34.nagios.local", "mas35.nagios.local", "mas36.nagios.local", "mas37.nagios.local", "mas38.nagios.local", "mas39.nagios.local", "mas40.nagios.local", "mas41.nagios.local", "mas42.nagios.local", "mas43.nagios.local", "mas44.nagios.local", "mas45.nagios.local", "mas46.nagios.local", "mas47.nagios.local", "mas48.nagios.local", "mas49.nagios.local", "mas50.nagios.local", "mas51.nagios.local", "mas52.nagios.local", "mas53.nagios.local", "mas54.nagios.local", "mas55.nagios.local", "mas56.nagios.local", "mas57.nagios.local", "mas58.nagios.local", "mas59.nagios.local", "mas60.nagios.local", "mas61.nagios.local", "mas62.nagios.local", "mas63.nagios.local", "mas64.nagios.local", "mas65.nagios.local", "mas66.nagios.local", "mas67.nagios.local", "mas68.nagios.local", "mas69.nagios.local", "mas70.nagios.local", "mas71.nagios.local", "mas72.nagios.local", "mas73.nagios.local", "mas74.nagios.local", "mas75.nagios.local", "mas76.nagios.local", "mas77.nagios.local", "mas78.nagios.local", "mas79.nagios.local", "mas80.nagios.local", "mas81.nagios.local", "mas82.nagios.local", "mas83.nagios.local", "mas84.nagios.local", "mas85.nagios.local", "mas86.nagios.local", "mas87.nagios.local", "mas88.nagios.local", "mas89.nagios.local", "mas90.nagios.local", "mas91.nagios.local", "mas92.nagios.local", "mas93.nagios.local", "mas94.nagios.local", "mas95.nagios.local", "mas96.nagios.local", "mas97.nagios.local", "mas98.nagios.local", "mas99.nagios.local", "mas100.nagios.local". The dashboard also includes a "Last Updated: Sat Oct 01 12:46:40 2022" timestamp and a "Updated every 10 seconds" refresh rate. The bottom status bar shows "Nagios XI 5.8.9" and a "Check for Updates" link. The footer contains links for "About", "Legal", and "Copyright © 2008-2022 Nagios Enterprises, LLC".



## Nagios Services:

- Network Monitoring
- Server Monitoring
- Application Monitoring
- OS Monitoring
- Host resources Monitoring (like processor load, system log, and disk usage)
- Remote monitoring using SSL and SSH encrypted tunnels

The screenshot displays the Nagios Core web interface. The top navigation bar includes links for Activity, Software, Instances, flowchart, Classroom, Experiment, nagios Step, and Nagios Core. The main content area is titled "Nagios" and shows the "Current Network Status" as "Up" with a green status bar. Below this, the "Host Status Totals" and "Service Status Totals" are displayed. The "Service Status Details For All Hosts" table is shown, listing various services and their status.

Host	Service	Status	Last Check	Duration	Attempt	Status Information
localhost	Current Load	OK	10-01-2022 07:09:10	0d 0h 7m 1s	1/4	OK - load average: 0.00, 0.01, 0.01
localhost	Current Users	OK	10-01-2022 07:09:48	0d 0h 6m 23s	1/4	USERS OK - 1 users currently logged in
localhost	HTTP	WARNING	10-01-2022 07:08:25	0d 0h 5m 46s	4/4	HTTP WARNING: HTTP/1.1 403 Forbidden - 3932 bytes in 0.001 second response time
localhost	PING	OK	10-01-2022 07:06:04	0d 0h 5m 8s	1/4	PING OK - Packet loss = 0%, RTA = 0.04 ms
localhost	Root Partition	OK	10-01-2022 07:06:41	0d 0h 4m 31s	1/4	DISK OK - free space: / 6339 MB (77.50% inode=99%)
localhost	SSH	OK	10-01-2022 07:07:19	0d 0h 3m 53s	1/4	SSH OK - OpenSSH_7.4 (protocol 2.0)
localhost	Swap Usage	CRITICAL	10-01-2022 07:10:55	0d 0h 3m 16s	4/4	SWAP CRITICAL - 0% free (0 MB out of 0 MB) - Swap is either disabled, not present, or of zero size.
localhost	Total Processes	OK	10-01-2022 07:08:34	0d 0h 2m 38s	1/4	PROCS OK: 31 processes with STATE = RSZDT

## Terminate the resource

The screenshot shows the AWS Management Console. A green notification banner at the top states "Successfully terminated i-0f1836492ce34b4f8". Below this, the "Instances (1/1) Info" section is displayed. The instance "Mubashira" (ID: i-0f1836492ce34b4f8) is shown in the "Shutting-down" state. The "Status check" column indicates "2/2 checks passed".

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Mubashira	i-0f1836492ce34b4f8	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-1c