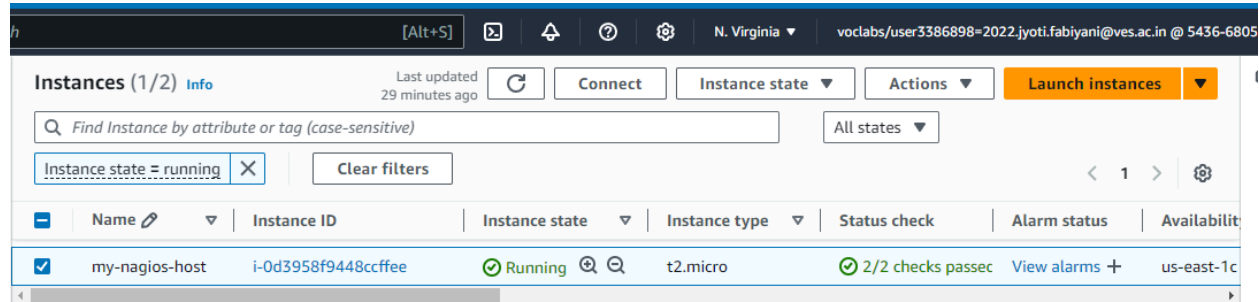


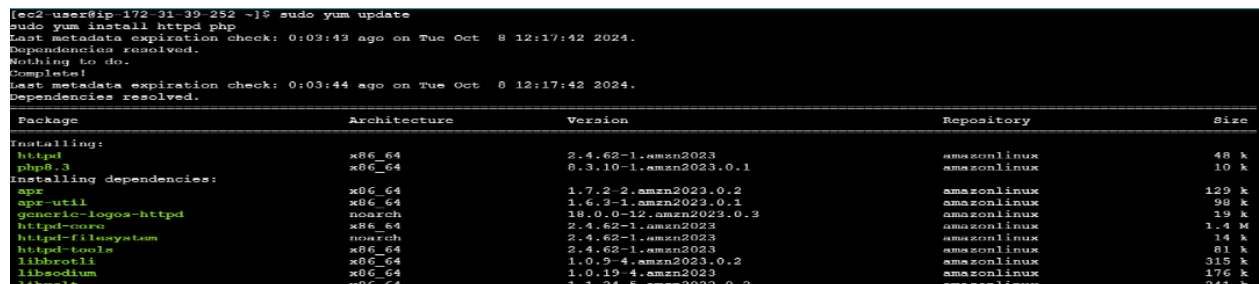
Name: Jyoti Fabiyani  
Class:D15B/14

## AdvDevops-9

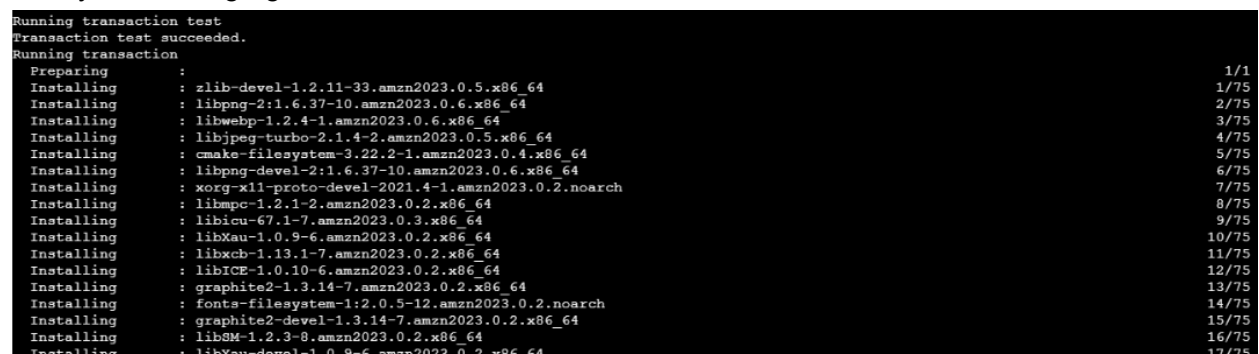
Create an Amazon Linux EC2 Instance in AWS.



Update the package indices and install the following packages using yum  
sudo yum update  
sudo yum install httpd php



sudo yum install gcc glibc glibc-common  
sudo yum install gd gd-devel



Create a new nagios user with password:

sudo adduser -m nagios

sudo passwd nagios

```
[ec2-user@ip-172-31-39-252 ~]$ sudo adduser -m nagios
sudo passwd nagios
Changing password for user nagios.
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic
Retype new password:
passwd: all authentication tokens updated successfully.
```

Create a new user group

sudo groupadd nagcmd

sudo usermod -a -G nagcmd nagios

sudo usermod -a -G nagcmd apache

```
[ec2-user@ip-172-31-39-252 ~]$ sudo groupadd nagcmd
sudo usermod -a -G nagcmd nagios
sudo usermod -a -G nagcmd apache
```

```
[ec2-user@ip-172-31-39-252 ~]$ mkdir ~/downloads
cd ~/downloads
```

Use wget to download the source zip files.

```
[ec2-user@ip-172-31-39-252 downloads]$ wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
wget http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz
--2024-10-08 12:29:06-- 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]
--2024-10-08 12:29:07-- 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://netactuate.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz?viasf=1 [following]
--2024-10-08 12:29:07-- http://netactuate.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz?viasf=1
Resolving netactuate.dl.sourceforge.net (netactuate.dl.sourceforge.net)... 104.225.3.66
Connecting to netactuate.dl.sourceforge.net (netactuate.dl.sourceforge.net)[104.225.3.66]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1805059 (1.7M) [application/x-gzip]
Saving to: 'nagios-4.0.8.tar.gz'

nagios-4.0.8.tar.gz      100%[=====>]  1.72M  --.-KB/s   in 0.09s

2024-10-08 12:29:07 (19.1 MB/s) - 'nagios-4.0.8.tar.gz' saved [1805059/1805059]

--2024-10-08 12:29:07-- http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz
```

```
[ec2-user@ip-172-31-39-252 downloads]$ tar zxvf nagios-4.0.8.tar.gz
cd nagios-4.0.8
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
```

Run the configuration script with the same group name you previously created.

`./configure --with-command-group=nagcmd`

```
[ec2-user@ip-172-31-39-252 nagios-4.0.8]$ ./configure --with-command-group=nagcmd
checking for a BSD-compatible install... /usr/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... /usr/bin/strip
checking how to run the C preprocessor... gcc -E
checking for grep that handles long lines and -e... /usr/bin/grep
checking for egrep... /usr/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
```

```

netutils.c:50:46: note: directive argument in the range [-2147483648, 65535]
 50 |         snprintf(port_str, sizeof(port_str), "%d", port);
    |         ^~~~~
netutils.c:50:9: note: 'snprintf' output between 2 and 12 bytes into a destination of size 6
 50 |         snprintf(port_str, sizeof(port_str), "%d", port);
    |         ^~~~~~
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 'process_check_result_queue':
utils.c:2038:52: warning: 'snprintf' output may be truncated before the last format character [-Wformat-truncation=]
2038 |         snprintf(file, sizeof(file), "%s/%s", dirname, dirfile->d_name);
    |         ^~~~~~
utils.c:2038:17: note: 'snprintf' output 2 or more bytes (assuming 257) into a destination of size 256
2038 |         snprintf(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
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o xobjects-base.o ../xdata/xodtemplate.c

```

Edit the config file and change the email address.

`sudo nano /usr/local/nagios/etc/objects/contacts.cfg`

```

GNU nano 5.8 /usr/local/nagios/etc/objects/c
#####
# CONTACTS.CFG - SAMPLE CONTACT/CONTACTGROUP DEFINITIONS
#
#
# NOTES: This config file provides you with some example contact and contact
#        group definitions that you can reference in host and service
#        definitions.
#
#        You don't need to keep these definitions in a separate file from your
#        other object definitions. This has been done just to make things
#        easier to understand.
#
#####
#####
#####
#
# CONTACTS

```

Configure the web interface.

`sudo make install-webcon`

```

[ec2-user@ip-172-31-46-218 nagios-4.0.8]$ sudo make install-webconf
/usr/bin/install -c -m 644 sample-config/httpd.conf /etc/httpd/conf.d/nagios.conf
*** Nagios/Apache conf file installed ***

```

Create a nagiosadmin account for nagios login along with password. You'll have to specify the password twice.

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

```

[ec2-user@ip-172-31-46-218 nagios-4.0.8]$ sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
[ec2-user@ip-172-31-46-218 nagios-4.0.8]$

```

Go back to the downloads folder and unzip the plugins zip file.

cd ~/downloads

tar zxvf nagios-plugins-2.0.3.tar.gz

```
[ec2-user@ip-172-31-46-218 ~]$ cd ~/downloads/  
[ec2-user@ip-172-31-46-218 downloads]$ tar zxvf nagios-plugins-2.0.3.tar.gz
```

Start Nagios

sudo service nagios start

```
ec2-user@ip-172-31-46-218 ~]$ sudo service nagios start  
Starting nagios (via systemctl): [ OK ]  
ec2-user@ip-172-31-46-218 ~]$ |
```