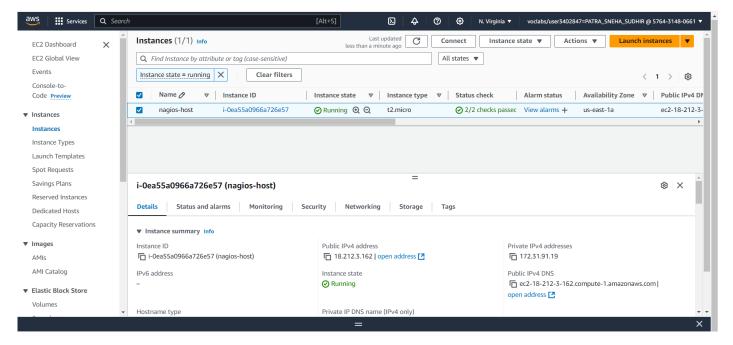
Sneha Patra D15A 41

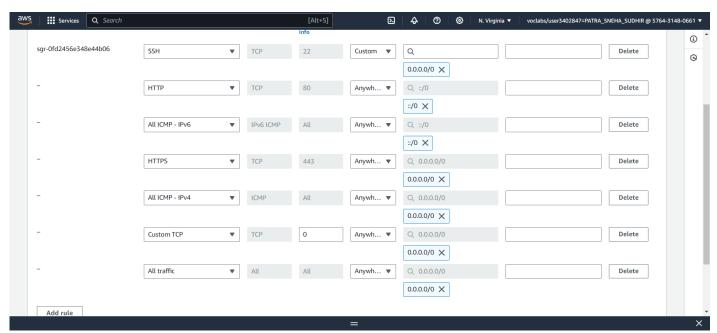
Experiment 9

Aim: To Understand Continuous monitoring and Installation and configuration of Nagios Core, Nagios Plugins and NRPE (Nagios Remote Plugin Executor) on Linux Machine.

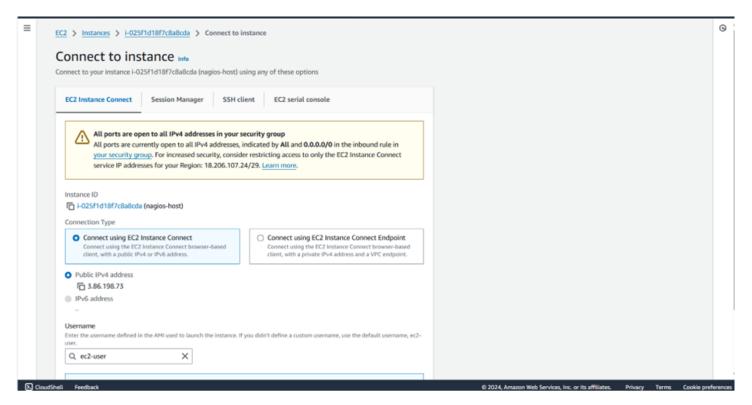
Step 1: Create an EC2 Instance and name it as nagios-host



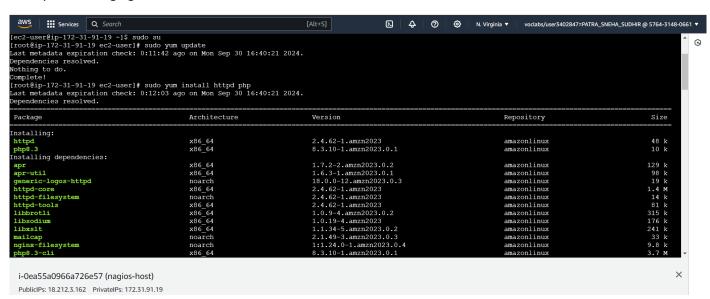
Step 2: Under the security groups, click on edit inbound rules and set as shown in the figure below

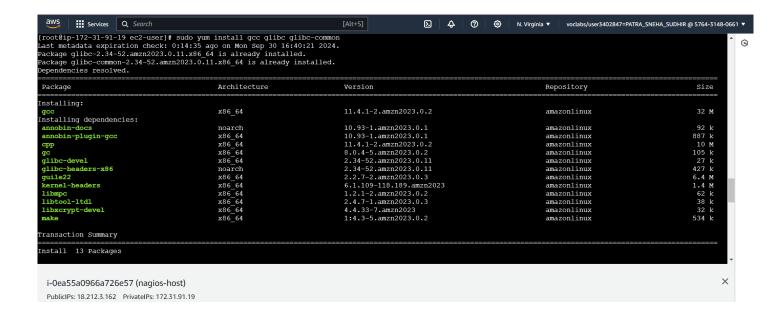


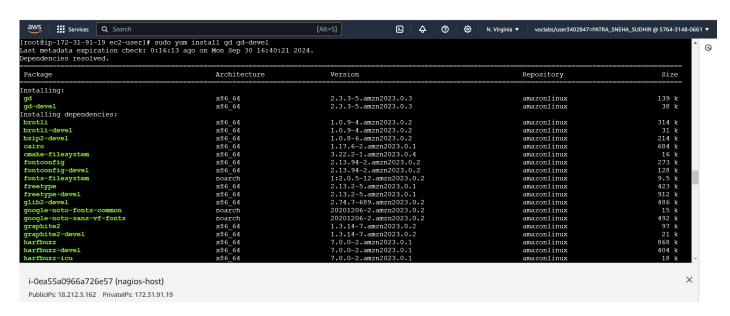
Step 3: Then select the instance nagios-host and then connect the instance.



Step 3: Now, run the following commands sudo su sudo yum update sudo yum install httpd php sudo yum install gcc glibc glibc-common sudo yum install gd gd-devel







Step 4: Create a new nagios user with its password. sudo adduser -m nagios sudo passwd nagios sudo groupadd nagcmd sudo usermod -a -G nagcmd nagios sudo usermod -a -G nagcmd apache

```
|root@ip-172-31-93-157 ec2-user| | sudo adduser -m nagios | root@ip-172-31-93-157 ec2-user| | sudo passwd nagios | thanging password for user nagios. | the password: | the pa
```

Step 5: Now, run the following commands - 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-2.0.3.tar.gz tar zxvf nagios-4.0.8.tar.gz

To resolve the error run the following commands - 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 tar zxvf nagios-4.0.8.tar.gz cd nagios-4.0.8

```
root@ip-172-31-93-157 downloads]# wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz

gget http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz

-2024-09-30 17:03:04-- http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz

esolving prdownloads.sourceforge.net (prdownloads.sourceforge.net)... 204.68.111.105

connecting to prdownloads.sourceforge.net (prdownloads.sourceforge.net)|204.68.111.105|:80... connected.

TTP request sent, avaiting response... 301 Moved Permanently

coation: http://downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8.tar.gz [following]

-2024-09-30 17:03:04-- http://downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz

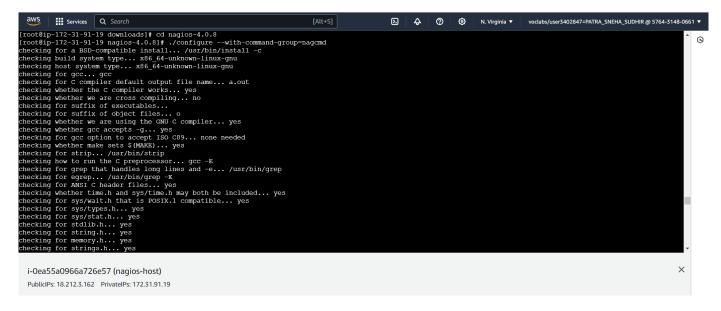
esolving downloads.sourceforge.net (downloads.sourceforge.net)... 204.68.111.105

TTP request sent, avaiting response... 302 Found

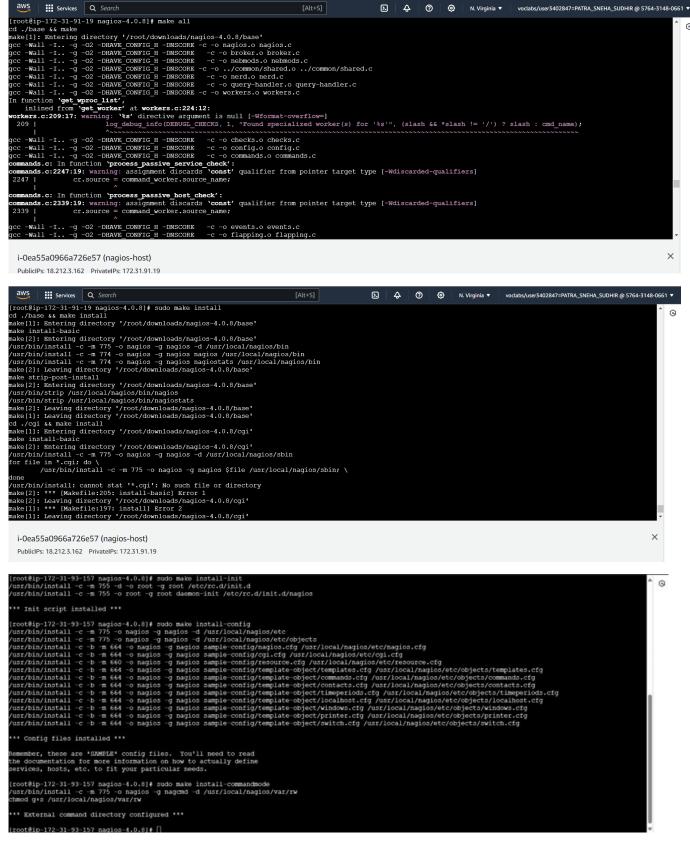
coation: http://versaweb.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8.tar.gz?viasf-1 [following]

-2024-09-30 17:03:04-- http://versaweb.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagios-4.0.8/nagio
           gios-4.0.8.tar.gz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      --->] 1.72M 2.21MB/s
         024-09-30 17:03:05 (2.21 MB/s) - 'nagios-4.0.8.tar.gz' saved [1805059/1805059]
        -2024-09-30 17:03:05-- http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz esolving nagios-plugins.org (nagios-plugins.org)... 45.56.123.251 onnecting to nagios-plugins.org (nagios-plugins.org)|45.56.123.251|:80... connected. TTP request sent, awaiting response... 200 OK ength: 2659772 (2.5M) [application/x-gzip] aving to: 'nagios-plugins-2.0.3.tar.gz.1'
         agios-plugins-2.0.3.tar.gz.1
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      024-09-30 17:03:05 (7.26 MB/s) - 'nagios-plugins-2.0.3.tar.gz.1' saved [2659772/2659772]
agios-plugins-2.0.3/plugins-scripts/check_rpc.pl
nagios-plugins-2.0.3/plugins-scripts/check_rpc.pl
nagios-plugins-2.0.3/plugins-scripts/check_oracle.sh
nagios-plugins-2.0.3/plugins-scripts/t/scheck_oracle.sh
nagios-plugins-2.0.3/plugins-scripts/t/check_disk_smb.pl
nagios-plugins-2.0.3/plugins-scripts/t/check_disk_smb.pl
nagios-plugins-2.0.3/plugins-scripts/t/check_fioperstatus.t
nagios-plugins-2.0.3/plugins-scripts/t/check_file_age.t
nagios-plugins-2.0.3/plugins-scripts/t/check_file_age.t
nagios-plugins-2.0.3/plugins-scripts/t/check_fistatus.t
nagios-plugins-2.0.3/plugins-scripts/t/check_mailq.pl
nagios-plugins-2.0.3/plugins-scripts/check_wave.pl
nagios-plugins-2.0.3/plugins-scripts/check_ird.pl
nagios-plugins-2.0.3/plugins-scripts/check_ird.pl
nagios-plugins-2.0.3/plugins-scripts/check_ifstatus.pl
nagios-plugins-2.0.3/plugins-scripts/check_ifstatus.pl
nagios-plugins-2.0.3/pkg/fedora/
nagios-plugins-2.0.3/pkg/fedora/
nagios-plugins-2.0.3/pkg/solaris/
nagios-plugins-2.0.3/pkg/solaris/
nagios-plugins-2.0.3/pkg/solaris/
nagios-plugins-2.0.3/pkg/solaris/pkginfo.in
nagios-plugins-2.0.3/pkg/solaris/pkginfo
nagios-plugins-2.0.3/pkg/redhat/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         voclabs/user3402847=PATRA_SNEHA_SUDHIR @ 5764-3148-0661 ▼
           i-0ea55a0966a726e57 (nagios-host)
           PublicIPs: 18.212.3.162 PrivateIPs: 172.31.91.19
```

Step 6: Now to run the configuration script run the following command. ./configure --with-command-group=nagcmd



Step 7: Now, to compile the source code run the following command - make all



To resolve the errors run the following commands - sudo yum install -y gcc glibc glibc-common gd gd-devel make net-snmp openssl-devel rm -rf nagios-4.0.8 cd ~/downloads/nagios-4.4.6 ./configure --with-command-group=nagcmd make all sudo make install

```
make install-classicui

This installs the classic theme for the Nagios web interface

Support Notes

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

Look at the sample config files

Read the documentation on the Nagios Library at:
https://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

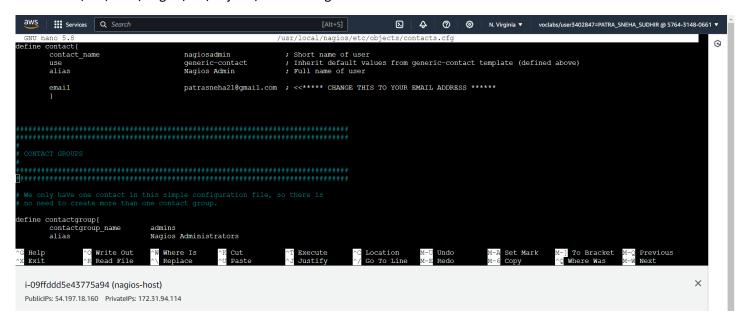
Relevant snippets from your config files

Relevant snippets from your config files

Relevant on one of the Nagios log file

For more information on obtaining support for Nagios, visit:
https://support.nagios.com
```

Step 8: Edit the config file and change the email address. sudo nano /usr/local/nagios/etc/objects/contacts.cfg



Step 9: Now run the following commands – sudo make install-webconf sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin sudo service httpd restart cd ~/downloads tar zxvf nagios-plugins-2.0.3.tar.gz

```
t the documentation on the Nagios Library at:
https://library.nagios.com
    efore you post a question to one of the mailing lists.
lso make sure to include pertinent information that co
elp 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
      or more information on obtaining support for Nagios, visit:
                            https://support.nagios.com
     njoy.
   ** Nagios/Apache conf file installed ***
    root@ip-172-31-93-157 nagios-4.4.6] # sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
     e-type new password:
dding password for user nagiosadmin
| Troot@ip-172-31-93-157 nagios-4.4.6] | sudo service httpd restart Redirecting to /bin/systemctl restart httpd.service [root@ip-172-31-93-157 nagios-4.4.6] | cd ~/downloads tar zxvf nagios-plugins-2.0.3/tar.gz nagios-plugins-2.0.3/perlmods/config-Tiny-2.14.tar.gz nagios-plugins-2.0.3/perlmods/config-Tiny-2.14.tar.gz nagios-plugins-2.0.3/perlmods/parent-0.226.tar.gz nagios-plugins-2.0.3/perlmods/Pest-Simple-0.98.tar.gz nagios-plugins-2.0.3/perlmods/Wakefile.in nagios-plugins-2.0.3/perlmods/Wakefile.in nagios-plugins-2.0.3/perlmods/Wakefile.am nagios-plugins-2.0.3/perlmods/Makefile.am nagios-plugins-2.0.3/perlmods/Makefile.am nagios-plugins-2.0.3/perlmods/Module-Metadata-1.000014.tar.gz nagios-plugins-2.0.3/perlmods/Farams-Validate-1.08.tar.gz nagios-plugins-2.0.3/perlmods/Fry-Tiny-0.18.tar.gz nagios-plugins-2.0.3/perlmods/Fry-Tiny-0.18.tar.gz nagios-plugins-2.0.3/perlmods/Module-Implementation-0.07.tar.gz nagios-plugins-2.0.3/perlmods/Module-Tmplementation-0.07.tar.gz nagios-plugins-2.0.3/perlmods/Makefile nagios-plugins-2.0.3/perlmods/Makefile nagios-plugins-2.0.3/perlmods/Makefile nagios-plugins-2.0.3/perlmods/Makefile nagios-plugins-2.0.3/perlmods/Makefile nagios-plugins-2.0.3/perlmods/Makefile nagios-plugins-2.0.3/perlmods/Makefile.in nagios-plugins-2.0.3/perlmods/Makefile.in nagios-plugins-2.0.3/configure.ac nagios-plugins-2.0.3/configure.ac nagios-plugins-2.0.3/configure.ac nagios-plugins-2.0.3/Amkefile.in nagios-plugins-2.0.3/Amkefile.in nagios-plugins-2.0.3/Albfbors nagios-plugins-2.0.3/lib/parse_ini.h nagios-plugins-2.0.3/lib/parse_ini.h nagios-plugins-2.0.3/lib/parse_ini.h nagios-plugins-2.0.3/lib/parse_ini.h nagios-plugins-2.0.3/lib/parse_ini.h nagios-plugins-2.0.3/lib/parse_ini.h nagios-plugins-2.0.3/lib/parse_ini.h nagios-plugins-2.0.3/lib/parse_ini.h nagios-plugins-2.0.3/lib/makefile.in
```

Step 10: Compile and install plugins cd nagios-plugins-2.0.3

 $./configure \ --with-nagios-user=nagios \ --with-nagios-group=nagios \ make$

sudo make install

```
/usr/Din/install -c -o nagios -g nagios check dhcp /usr/local/nagios/libexec/check dhcp
chown root /usr/local/nagios/libexec/check dhcp
chown root /usr/local/nagios/libexec/check dhcp
chown root /usr/local/nagios/libexec/check dhcp
chown root /usr/local/nagios/libexec/check icmp
chown root /usr/local/nagios/libexec/check icmp
chown root /usr/local/nagios/libexec/check icmp
chown root /usr/local/nagios/libexec/check icmp
ake[2]: Leaving directory '/root/downloads/nagios-plugins-2.0.3/plugins-root'
ake[2]: Leaving directory '/root/downloads/nagios-plugins-2.0.3/plugins-root'
ake[1]: Leaving directory '/root/downloads/nagios-plugins-2.0.3/plugins-root'
ake[1]: Leaving directory '/root/downloads/nagios-plugins-2.0.3/po'
usr/bin/mkdir -p /usr/local/nagios/share/locale/fr/LC_MESSACES/nagios-plugins.mo
intalling de.gmo as /usr/local/nagios/share/locale/de/LC_MESSACES/nagios-plugins.mo
intalling de.gmo as /usr/local/nagios/share/gettext/po;
for file in Makerie.in remove-perciate.sin Makevars.template; do \
    /usr/Din/mkdir -p /usr/local/nagios/share/gettext/po;
for file in Makerie.in remove-perciate.sin Makevars.template;
done; /usr/local/nagios/share/gettext/po;
for file in Makerie.in remove-perciate.sin Makevars.template;
done; /usr/local/nagios/share/gettext/po;
iise \
    ': '
    ilise \
    il
```

Step 11: To start nagios run the following commands – sudo chkconfig --add nagios

sudo chkconfig nagios on

Verify using the following command - sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

```
Iroot8ip-172-31-93-157 nagios-plugins-2.0.3| # sudo chkconfig --add nagios
sudo chkconfig nagios on
[root8ip-172-31-93-157 nagios-plugins-2.0.3| # sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

(agios Core 4.4.6
Copyright (c) 2009-present Nagios Core Development Team and Community Contributors
Copyright (c) 1999-2009 Rthan Galstad
Last Wodified: 2020-04-28
License: GPL

Rebaiter https://www.nagios.org
Rebaiter https://
```

If there are no errors run the following command – sudo service nagios start

```
MARNING: The retry_check_interval attribute is deprecated and will be removed in future versions. Please use retry_interval instead.

MARNING: The normal_check_interval attribute is deprecated and will be removed in future versions. Please use check_interval instead.

Read object config files okay...

Sunning pre-flight check on configuration data...

Checked 3 services.

Checked 1 hosts.

Checked 1 host groups.

Checked 1 host groups.

Checked 1 host groups.

Checked 1 contacts cups.

Checked 2 commands.

Checked 2 commands.

Checked 3 service groups.

Checked 5 time periods.

Checked 0 host secalations.

Checked 0 host secalations.

Checked 0 service escalations.

Checked 1 obsts.

Checked 1 service escalations.

Checked 3 service escalations.

Checked 1 hosts.

Checked 3 service escalations.

Checked 3 service escalations.

Checked 1 hosts.

Checked 1 hosts.

Checked 3 service escalations.

Checked 1 hosts.

Checked 3 service escalations.

Checked 4 hosts.

Checked 5 timeperiods.

Checked 5 timeperiods.

Checked 5 timeperiods.

Checked 6 service escalations.

Checked 6 service escalations.

Checked 7 service escalations.

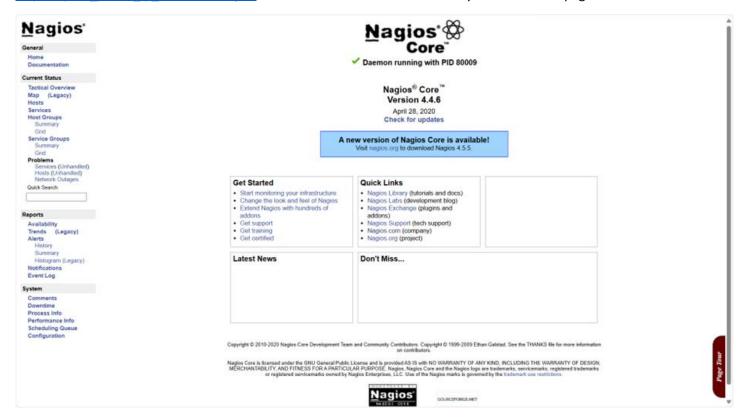
Checked 8 service escalations.

Checked 9 service escalations.

Checked
```

Check status using the following command - sudo systemctl status nagios

Step 12: Go to EC2 instance and copy the public IP address of the instance. Now visit <a href="http://<your public ip address>/nagios">http://<your public ip address>/nagios Enter correct credentials and then you will see this page.



Conclusion: Nagios Core, Nagios Plugins and NRPE (Nagios Remote Plugin Executor) was installed and configured.