Assignment: 9

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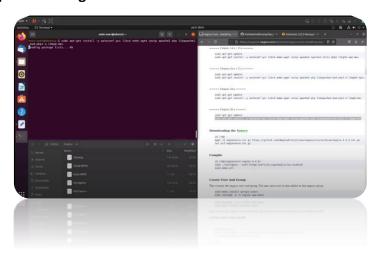
Aim: Installation of Nagios on Ubuntu system.

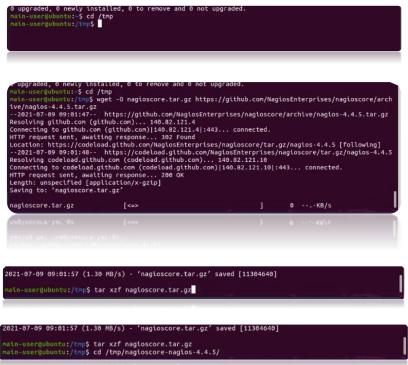
LO mapped: LO1, LO5

Theory:

Nagios: Open-source monitoring tool for real-time IT infrastructure health checks and alerts, helping ensure system reliability.

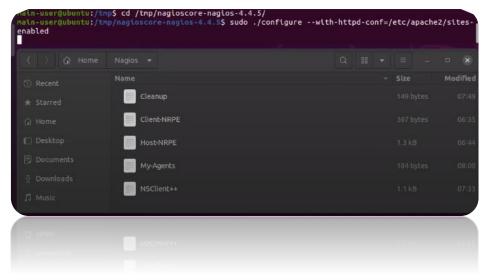
1. Update System Packages:





2. Install Prerequisites:





```
main-user@ubuntu:/tmp/nagioscore-nagios-4.4.5$ sudo make all

main-user@ubuntu:/tmp/nagioscore-nagios-4.4.5$ sudo make install-groups-users
Group nagios already exists
User nagios already exists
main-user@ubuntu:/tmp/nagioscore-nagios-4.4.5$
```

3. Create Nagios User and Group:

```
main-user@ubuntu:/tmp/nagloscore-naglos-4.4.5$ sudo usermod -a -G naglos www-data
main-user@ubuntu:/tmp/nagloscore-naglos-4.4.5$

main-user@ubuntu:/tmp/nagloscore-naglos-4.4.5$ sudo make install
```

4. Download Nagios Core:

```
make[1]: Leaving directory '/tmp/nagloscore-naglos-4.4.5'
main-user@ubuntu:/tmp/nagloscore-naglos-4.4.5$ sudo make install-daemoninit
/usr/bin/install -c -m 755 -d -o root -g root /lib/systemd/system
/usr/bin/install -c -m 755 -o root -g root startup/default-service /lib/systemd/system/naglos.service

main-user@ubuntu:/tmp/nagloscore-naglos-4.4.5$ sudo make install-commandmode
/usr/bin/install -c -m 775 -o naglos -g naglos -d /usr/local/naglos/var/rw
chmod g+s /usr/local/naglos/var/rw

*** External command directory configured ***

main-user@ubuntu:/tmp/nagloscore-naglos-4.4.5$

main-user@ubuntu:/tmp/nagloscore-naglos-4.4.5$
```

5. Compile and Install Nagios Core:



6. Configure Nagios Web Interface:

```
main-user@ubuntu:/tmp/nagioscore-nagios-4.4.5$ sudo a2enmod rewrite
Module rewrite already enabled
main-user@ubuntu:/tmp/nagioscore-nagios-4.4.5$ 

Module rewrite already enabled
main-user@ubuntu:/tmp/nagioscore-nagios-4.4.5$ sudo a2enmod cgi
Module cgi already enabled
main-user@ubuntu:/tmp/nagioscore-nagios-4.4.5$
```

7. Create a Nagios Admin User:

```
Adding password for user naglosadmin
nain-user@ubuntu:/tmp/nagloscore-naglos-4.4.5$ sudo htpasswd -c /usr/local/naglos/etc/htpasswd.users
naglosadmin
New password:
Adding password for user naglosadmin
nain-user@ubuntu:/tmp/nagloscore-naglos-4.4.5$

Adding password for user naglos-4.4.5$

Adding password for user na
```

8. Start Apache Web Server:



```
un-usergubuntu:/tmp/magloscore-maglos-4.4.35 sudo systemctl restart apache2.service
main-usergubuntu:/tmp/magloscore-maglos-4.4.35 sudo systemctl start maglos.service
main-usergubuntu:/tmp/magloscore-maglos-4.4.35 sudo systemctl start maglos.service
main-usergubuntu:/tmp/magloscore-maglos-4.4.35 sudo systemctl start maglos.service
ev make libssl-dev wget be gawk de build-essential snmp libnet-snmp-perl gettext
evading state information... Done
multion is already the meest version (2.69-11.1).
do to salready the meest version (2.67.4-bbuildi).
do ts already the newest version (1.67.4-bbuildi).
gavk is already the newest version (1.67.4-bbuildi).
get salready the newest version (1.67.4-bbuildi).
make is already the newest version (1.69.3-1.0-bubuntu).
gettext is already the newest version (2.69.8-1.1-bbuildi).
make is already the newest version (2.69.8-1.1-bbuildi).
libnergyt-dev is already the newest version (2.58.3-4).
libnet-snmp-perl is already the newest version (2.58.3-4).
libnet-snmp-perl is already the newest version (2.5.8-6).
build-essential is already the newest version (2.51-0bubuntu).
libscl os already the newest version (2.31-0bubuntu).
libscl os already the newest version (2.31-0bubuntu).
libscl os already the newest version (2.31-0bubuntu).
libscl-dev la already the newest version (3.34-0bubuntu).
libscl-dev la alr
```

9. Start Nagios Service:

```
main-user@ubuntu:/tmp$ tar zxf nagios-plugins.tar.gz
main-user@ubuntu:/tmp$ cd /tmp/nagios-plugins-release-2.2.1/
main-user@ubuntu:/tmp/nagios-plugins-release-2.2.1$ sudo ./tools/setup
Found GNU Make at /usr/bin/make ... good.
```

10. Check Nagios Configuration:

```
make[2]: Leaving directory '/tmp/nagios-plugins-release-2.2.1'
make[1]: Leaving directory '/tmp/nagios-plugins-release-2.2.1'
make[1]: Leaving directory '/tmp/nagios-plugins-release-2.2.1'
main-user@ubuntu:/tmp/nagios-plugins-release-2.2.1$ sudo make install
```

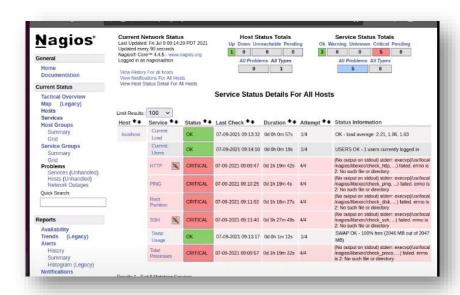
11. Restart Apache and Nagios:



```
main-user@ubuntu:/tmp/nagios-plugins-release-2.2.1$ sudo systemctl restart nagios.service
```

12. Access the Nagios Web Interface:





Open a web browser and go to http://localhost/nagios (or the IP address of your Ubuntu server) and log in with the nagiosadmin credentials you created.

You've successfully installed and configured Nagios on your Ubuntu system. You can now begin adding hosts, services, and configuring monitoring checks through the web interface.

Conclusion: We installed Nagios on Ubuntu System successfully.

