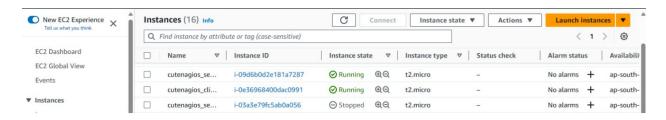
Screenshots for Experiment 10

```
e nagios.service - Nagios Core 4.4.14
Loaded: loaded (/lib/systemd/system/nagios.service; enabled; vendor preset: enabled)
Active: active (running) since Sat 2023-09-30 08:54:01 UTC; 20s ago
Docs: https://www.nagios.org/documentation
Process: 55285 ExecStartPre-/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)
Process: 55286 ExecStart=/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)
Main PID: 55287 (nagios)
Tasks: 6 (limit: 1141)
Memory: 5.3M
CPU: 252ms
CGroup: /system.slice/nagios.service
-55287 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
-55288 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-55289 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-55290 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-55291 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-55292 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
```

Monitoring a Linux machine, create an Ubuntu 20.04 server EC2 Instance in AWS.



sudo apt update -y sudo apt install gcc -y sudo apt install -y nagios-nrpe-server nagios-plugins

```
Last login: Sat Sep 30 08:31:30 2023 from 13.233.177.3 abuntu@ip-172-31-44-151:~$ sudo apt install gcc -y
 eading package lists... Done
 cc is already the newest version (4:11.2.0-lubuntul).
 cc set to manually installed.
 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
  oot@ip-172-31-44-151:/home/ubuntu# sudo apt install nagios-nrpe-server nagios-plugins
 eading package lists... Done
 uilding dependency tree... Done
 eading state information... Done
 ote, selecting 'monitoring-plugins' instead of 'nagios-plugins'
 onitoring-plugins is already the newest version (2.3.1-lubuntu4).
   t:4 http://security.ubuntu.com/ub
 etched 229 kB in 1s (290 kB/s)
eading package lists... Done
 teading package lists... Done
uullding dependency tree... Done
teading state information... Done
packages can be upgraded. Run 'apt list --upgradable' to see them.
toote(§p-17-2-31-44-151:/home/ubuntu# sudo apt install gcc -y
teading package lists... Done
 Building dependency tree... Done
Reading state information... Done
  upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
oot@ip-172-31-44-151:/home/ubuntu# sudo apt install -y nagios-nrpe-server nagios-plugins
 eading package lists... Done uilding dependency tree... Done
 unlisting dependency tree... Done adding take information... Done ote, selecting 'monitoring-plugins' instead of 'nagios-plugins' onitoring-plugins is already the newest version (2.3.1-lubuntu4). agios-nrpe-server is already the newest version (4.0.3-lubuntu2). upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
```

sudo nano /etc/nagios/nrpe.cfg

```
GNU nano 6.2

/etc/nagios/nrpe.cfg

SERVER ADDRESS
Address that nrpe should bind to in case there are more than one interface
and you do not want mape to bind on all interfaces.
NOTE: This option is ignored if NRPE is running under either inetd or xinetd

Server_address=127.0.0.1

LISTEN QUEUE SIZE
Listen queue size (backlog) for serving incoming connections.
You may want to increase this value under high load.

Slisten_queue_size=5

AG Help
AG Write Out
AG Where IS
AG Help
AG Write Out
AG Where IS
AG Help
AG Write Out
AG Replace
AD Paste
AJ Justify
AG To Line
AG To Copy

YOURSESSERVER ADDRESS
AG TO COPY

YOURSESSERVER ADDRESS
AG TO COPY

YOURSESS
AG TO COPY

YOURSE
AG TO COPY

YOURSESS
AG TO COPY

YOURSESS
AG TO COPY

YOURSESS
```

sudo systemctl restart nagios-nrpe-server

```
Restarting services...

Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemct1 restart settyettyl.service
systemct1 restart systemd-logind.service
systemct1 restart systemd-logind.service
systemct1 restart unattended-upgrades.service
systemct1 restart unattended-upgrades.service
systemct1 restart unattended-upgrades.service
systemct1 restart unattended-upgrades.service
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-41-41:/home/ubuntu# sudo nano /etc/nagios/nrpe.cfg
root@ip-172-31-41-41:/home/ubuntu# sudo anano /etc/nagios/nrpe.cfg
root@ip-172-31-41-41:/home/ubuntu# sudo systemct1 restart nagios-nrpe-server
root@ip-172-31-41-41:/home/ubuntu# sudo systemct1 status nagios-nrpe-server
root@ip-172-31-41-41:/home/ubuntu# sudo systemct1 status nagios-nrpe-server
nagios-nrpe-server.service - Magios Remote Plugin Executor
```

```
coot@ip-172-31-41-41:/home/ubuntu# sudo systemctl status nagios-nrpe-server
 nagios-nrpe-server.service - Nagios Remote Plugin Executor
    Loaded: loaded (/lib/systemd/system/nagios-nrpe-server.service; enabled; vendor preset: enabled)
    Active: active (running) since Sat 2023-09-30 09:27:17 UTC; 6s ago
      Docs: http://www.nagios.org/documentation
  Main PID: 7349 (nrpe)
     Tasks: 1 (limit: 1141)
    Memory: 1.5M
       CPU: 9ms
    CGroup: /system.slice/nagios-nrpe-server.service
             L-7349 /usr/sbin/nrpe -c /etc/nagios/nrpe.cfg -f
Sep 30 09:27:17 ip-172-31-41-41 systemd[1]: nagios-nrpe-server.service: Deactivated successfully.
Sep 30 09:27:17 ip-172-31-41-41 systemd[1]: Stopped Nagios Remote Plugin Executor.
Sep 30 09:27:17 ip-172-31-41-41 systemd[1]: Started Nagios Remote Plugin Executor.
Sep 30 09:27:17 ip-172-31-41-41 nrpe[7349]: Starting up daemon
Sep 30 09:27:17 ip-172-31-41-41 nrpe[7349]: Server listening on 0.0.0.0 port 5666.
Sep 30 09:27:17 ip-172-31-41-41 nrpe[7349]: Listening for connections on port 5666
Sep 30 09:27:17 ip-172-31-41-41 nrpe[7349]: Allowing connections from: 127.0.0.1,::1,13.235.0.144
```

ps -ef | grep nagios

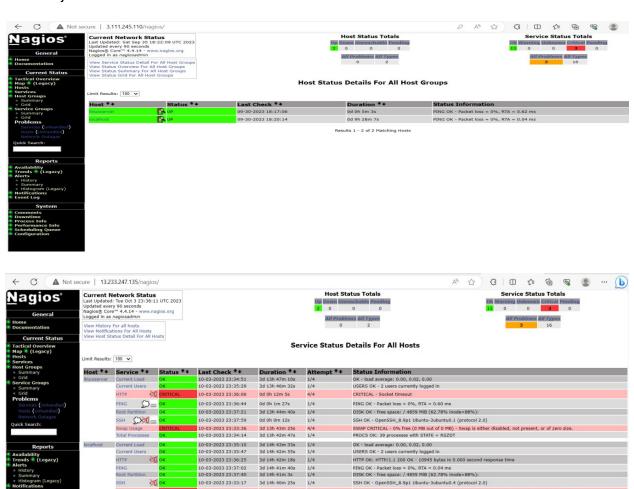
```
root@ip-172-31-44-151:/home/ubuntu# ps -ef | grep nagios
nagios 55287 1 0 08:54 ? 00:00:00 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
nagios 55288 55287 0 08:54 ? 00:00:00 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
nagios 55289 55287 0 08:54 ? 00:00:00 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
nagios 55291 55287 0 08:54 ? 00:00:00 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
nagios 55291 55287 0 08:54 ? 00:00:00 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
nagios 55292 55287 0 08:54 ? 00:00:00 /usr/local/nagios/bin/nagios -d /usr/local/nagios/var/rw/nagios.qh
nagios 56327 1 00:058 ? 00:00:00 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
nagios 56327 1 00:588 ? 00:00:00 /usr/sbin/nrpe -c /etc/nagios/nrpe.cfg -f
root 60903 60158 0 09:32 pts/1 00:00:00 grep --color=auto nagios
root@ip-172-31-44-151:/home/ubuntu# sudo su
root@ip-172-31-44-151:/home/ubuntu# mkdir /usr/local/nagios/etc/objects/monitorhosts
root@ip-172-31-44-151:/home/ubuntu# mkdir /usr/local/nagios/etc/objects/monitorhosts/linuxhosts
```

1.sudo su 2.mkdir /usr/local/nagios/etc/objects/monitorhosts 3.mkdir

/usr/local/nagios/etc/objects/monitorhosts/linuxhosts Copy the sample localhost.cfg file to linuxhost folder 4.cp /usr/local/nagios/etc/objects/localhost.cfg /usr/local/nagios/etc/objects/monitorhosts/linuxhosts/linuxserver.cfg

```
Checked 1 contacts.
Checked 2 commands.
Checked 24 commands.
Checked 5 time periods.
Checked 0 host escalations.
Checked 0 service escalations.
Checking for circular paths...
Checked 1 hosts
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
```

Sudo systemctl status nagios



Results 1 - 16 of 16 Matching Services

SWAP CRITICAL - 0% free (0 MB out of 0 MB) - Swap is either disabled, not present, or of zero size.

PROCS OK: 40 processes with STATE = RSZDT

10-03-2023 23:33:55 3d 14h 36m 48s 4/4 10-03-2023 23:33:24 3d 14h 39m 10s 1/4