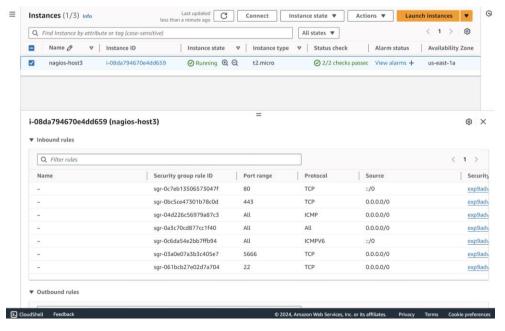
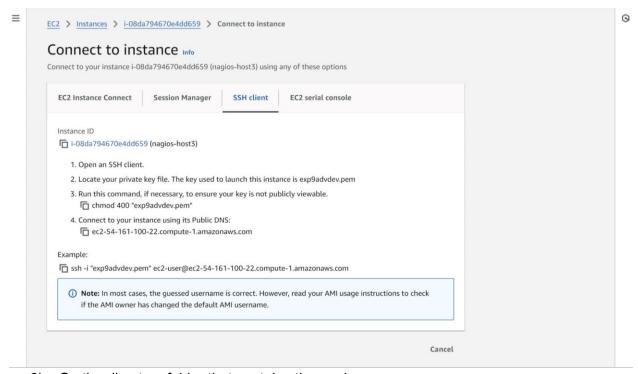
Steps

1) Create Amazon linux EC2 instance with rsa key pair and security group with all inbound rules as shown below





- 2) Go the directory folder that contains the rsa key
- 3) ssh -i "exp9advdev.pem" ec2-user@ec2-54-161-100-22.compute-1.amazonaws.com

```
ASUS@LAPTOP-038NG844 MINGW64 ~
$ cd C:\keyAdvDevOpsExp9
ASUS@LAPTOP-038NG844 MINGW64 /c/keyAdvDevOpsExp9
$ ec2-54-161-100-22.compute-1.amazonaws.com
bash: ec2-54-161-100-22.compute-1.amazonaws.com: command not found
ASUS@LAPTOP-038NG844 MINGW64 /c/keyAdvDevOpsExp9
$ ssh -i "exp9advdev.pem" ec2-user@ec2-54-161-100-22.compute-1.amazonaws.com The authenticity of host 'ec2-54-161-100-22.compute-1.amazonaws.com (54.161.100.
22)' can't be established.
ED25519 key fingerprint is SHA256:fe9wxWksYueYFsT/W6vuiXHc4Y9/oebau6COCKO6qfk.
This host key is known by the following other names/addresses:
    ~/.ssh/known_hosts:6: 54.161.100.22
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-54-161-100-22.compute-1.amazonaws.com' (ED25519)
 to the list of known hosts.
         #_
####
                       Amazon Linux 2023
         #####
                       https://aws.amazon.com/linux/amazon-linux-2023
```

- 4) sudo yum update
- 5) sudo yum install httpd php
- 6) sudo yum install gcc glibc glibc-common
- 7) sudo yum install gd gd-devel

```
[ec2-user@ip-172-31-39-112 ~]$ sudo yum update
Last metadata expiration check: 0:29:10 ago on Wed Oct 2 06:24:18 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-39-112 ~]$ sudo yum install httpd php
Last metadata expiration check: 0:29:24 ago on Wed Oct 2 06:24:18 2024.
Dependencies resolved.
 Package
                       Arch
                                Version
                                                             Repository
                                                                            size
Installing:
                                2.4.62-1.amzn2023
httpd
                       x86_64
                                                             amazonlinux
                                                                            48 k
php8.3
                       x86_64
                                8.3.10-1.amzn2023.0.1
                                                             amazonlinux
                                                                            10 k
Installing dependencies:
                       x86_64 1.7.2-2.amzn2023.0.2
                                                             amazonlinux
                                                                           129 k
```

```
[ec2-user@ip-172-31-39-112 ~]$ sudo yum install gcc glibc glibc-common Last metadata expiration check: 0:29:53 ago on Wed Oct 2 06:24:18 2024. Package glibc-2.34-52.amzn2023.0.11.x86_64 is already installed.
Package glibc-common-2.34-52.amzn2023.0.11.x86_64 is already installed.
Dependencies resolved.
 Package
Installing:
                                                                             amazonlinux
 gcc
                            x86 64
                                        11.4.1-2.amzn2023.0.2
                                                                                                 32 M
Installing dependencies:
[ec2-user@ip-172-31-39-112 ~]$ sudo yum install gd gd-devel
Last metadata expiration check: 0:30:18 ago on Wed Oct 2 06:24:18 2024.
Dependencies resolved.
 Package
                                            Version
                                   Arch
                                                                                Repository
                                                                                                 Size
Installing:
                                   x86_64 2.3.3-5.amzn2023.0.3
                                                                                amazonlinux 139 k
```

- 8) sudo adduser -m nagios
- 9) sudo passwd nagios
- 10) sudo groupadd nagcmd
- 11) sudo usermod -a -G nagcmd nagios
- 12) sudo usermod -a -G nagcmd apache
- 13) mkdir downloads
- 14) cd downloads
- 15) wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
- 16) wget http://nagios-p1ugins.org/down10ad/nagios-p1ugins-2.0.3.tar.gz
- 17) tar zxvf nagios-4.0.8.tar.gz

```
[ec2-user@ip-172-31-39-112 ~]$ sudo adduser -m nagios
[ec2-user@ip-172-31-39-112 ~]$ sudo passwd nagios
Changing password for user nagios.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[ec2-user@ip-172-31-39-112 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-39-112 ~]$ sudo usermod -a -G nagcmd nagios
[ec2-user@ip-172-31-39-112 ~]$ sudo usermod -a -G nagcmd apache
[ec2-user@ip-172-31-39-112 ~]$ mkdir downloads
ec2-user@ip-172-31-39-112 ~]$ cd downloads
[ec2-user@ip-172-31-39-112 downloads]$ wget http://prdownloads.sourceforge.net/s
ourceforge/nagios/nagios-4.0.8.tar.gz
--2024-10-02 06:58:59-- http://prdownloads.sourceforge.net/sourceforge/nagios/n
[ec2-user@ip-172-31-39-112 downloads]$ wget http://nagios-plugins.org/download/n
agios-plugins-2.0.3.tar.gz
~2024-10-02 07:00:47-- http://nagios-plugins.org/download/nagios-plugins-2.0.3
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... conne
cted.
```

- 18) cd nagios-4.0.3
- 19). /configure --with-command-group=nagcmd

```
[ec2-user@ip-172-31-39-112 downloads]$ cd nagios-4.0.8
[ec2-user@ip-172-31-39-112 nagios-4.0.8]$ ./configure
--with-command-group=nagcmd
checking for a BSD-compatible install... /usr/bin/install -c
```

20) make all

```
[ec2-user@ip-172-31-39-112 nagios-4.0.8]$ make all cd ./base && make make make[1]: Entering directory '/home/ec2-user/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
```

- 21) sudo make install
- 22) sudo make install-init
- 23) sudo make install-config
- 24) sudo make install-commandmode

```
@ip-172-31-39-112 nagios-4.0.8]$ sudo make install

&& make install

Entering directory '/home/ec2-user/downloads/nagios-4.0.8/base

all-basic
```

```
[ec2-user@ip-172-31-39-112 nagios-4.0.8]$ sudo make install-init
/usr/bin/install -c -m 755 -d -o root -g root /etc/rc.d/init.d
/usr/bin/install -c -m 755 -o root -g root daemon-init /etc/rc.d/init.d/nagios

*** Init script installed ***

[ec2-user@ip-172-31-39-112 nagios-4.0.8]$ sudo make install-config
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc/objects
[ec2-user@ip-172-31-39-112 nagios-4.0.8]$ sudo make install-commandmode
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var/rw
chmod g+s /usr/local/nagios/var/rw

*** External command directory configured ***

[ec2-user@ip-172-31-39-112 nagios-4.0.8]$ sudo nano /usr/local/nagios/etc/object
s/contacts.cfg
[ec2-user@ip-172-31-39-112 nagios-4.0.8]$ sudo make install-webconf
/usr/bin/install -c -m 644 sample-config/httpd.conf /etc/httpd/conf.d/nagios.con
```

- 25) sudo nano /usr/local/nagios/etc/objects/contacts.cfg
 After running this command add your email address in define contact function
- 26) sudo make install-webconf
- 27) sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
- 28) sudo service httpd restart

- 29) cd ~/downloads/
- 30) tar zxvf nagios-plugins-2.e.3.tar.gz

```
[ec2-user@ip-172-31-39-112 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-172-31-39-112 nagios-4.0.8]$ sudo service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[ec2-user@ip-172-31-39-112 nagios-4.0.8]$ cd ~/downloads/
[ec2-user@ip-172-31-39-112 downloads]$ tar zxvf nagios-plugins-2.0.3.tar.gz
nagios-plugins-2.0.3/
nagios-plugins-2.0.3/perlmods/
```

- 32) cd nagios-plugins-2.0.3
- 33) ./configure --with-nagios-user=nagios --with-nagios-group=nagios

```
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ ./configure --with-nagios-user
=nagios --with-nagios-group=nagios
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
checking for a thread-safe mkdir -p... /usr/bin/mkdir -p
checking for gawk... gawk
```

34) sudo make install

```
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo make install
> alloca.h-t &&
```

- 35) sudo chkconfig --add nagios
- 36) sudo chkconfig nagios on
- 37) sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

```
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo chkconfig --add nagios
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo chkconfig nagios on
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo /usr/local/nagios/bin/nagios -v /us
gios/etc/nagios.cfg
Nagios Core 4.0.8
```

- 38) sudo nano /usr/local/nagios/etc/nagios.c
- 39) sudo chown -R nagios:nagios /usr/local/n

```
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo nano /usr/local/nagios/etc/nagios.c
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo chown -R nagios:nagios /usr/local/nspool/checkresults
```

40) Is /usr/local/nagios/bin/

- 41) sudo /usr/local/nagios/bin/nagios /usr/local/nagios/etc/nagios.cfg
- 42) sudo nano /etc/systemd/system/nagios.service

After this command add below code in the blank window

```
[Unit]

Description=Nagios Service

After=network.target

[Service]

User=nagios

Group=nagios

ExecStart=/usr/local/nagios/bin/nagios /usr/local/nagios/etc/nagios.cfg

[Install]

WantedBy=multi-user.target
```

```
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ ls /usr/local/nagios/bin/
nagios nagiostats
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo /usr/local/nagios/bin/nagios /usr/l
s/etc/nagios.cfg
```

[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]\$ sudo nano /etc/systemd/system/nagios.service [ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]\$

- 43) sudo yum update
- 44) sudo yum install httpd php

```
[ec2-user@ip-172-31-39-112 ~]$ sudo yum update
_ast metadata expiration check: 0:29:10 ago on Wed Oct 2 06:24:18 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-39-112 ~]$ sudo yum install httpd php
_ast metadata expiration check: 0:29:24 ago on Wed Oct 2 06:24:18 2024.
Dependencies resolved.
```

- 45) sudo systemctl daemon-reload
- 46) sudo systemctl start nagios
- 47) sudo systemctl enable nagios
- 48) sudo service nagios start

```
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo systemctl start nagios
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo systemctl enable nagios
synchronizing state of nagios.service with SysV service script with /usr/lib/systemd/syste
stall.
Executing: /usr/lib/systemd/systemd-sysv-install enable nagios
Created symlink /etc/systemd/system/multi-user.target.wants/nagios.service → /etc/systemd/
ios.service.
[ec2-user@ip-172-31-39-112 nagios-plugins-2.0.3]$ sudo service nagios start
starting nagios (via systemctl):

[OK]
```