

1) Login to aws and create 2 instances named as nagios and remote_server

2) In nagios server install nagios

```
vi nagios.sh
yum -y install httpd php gcc glibc glibc-common wget perl gd gd-devel unzip zip
useradd nagios
groupadd nagcmd
usermod -a -G nagcmd nagios
usermod -a -G nagcmd apache
cd /tmp/
wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.3.2.tar.gz
tar -zxvf nagios-4.3.2.tar.gz
cd /tmp/nagios-4.3.2
./configure --with-nagios-group=nagios --with-command-group=nagcmd
make all
make install
make install-init
make install-config
make install-commandmode
make install-webconf
make install-exfoliation
systemctl restart httpd
systemctl enable httpd
htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
sh.nagios.sh
enter the new password and re-enter the password again
```

3) copy the public-ip of nagios instance and paste in the new tab with /nagios it will ask for username and password

```
username:nagiosadmin
```

```
password:
```

we can see the nagios GUI but you cannot access other things to access entire nagios

4) we have to install nagios plugins in the nagios_server

```
vi nagios-plugin.sh
cd /tmp
wget https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz
tar -zxvf nagios-plugins-2.2.1.tar.gz
cd /tmp/nagios-plugins-2.2.1/
./configure --with-nagios-user=nagios --with-nagios-group=nagios
make
make install
/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
service nagios start
chkconfig nagios on
sh nagios-plugin.sh
now refresh the nagios website we will see that nagios is running and working fine
```

-----In remote server-----

1)In remote server nagios plugins

```
vi nagios-plugin.sh
```

```
cd /tmp
```

```
wget https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz
```

```
tar -zxvf nagios-plugins-2.2.1.tar.gz
```

```
cd /tmp/nagios-plugins-2.2.1/
```

```
./configure --with-nagios-user=nagios --with-nagios-group=nagios
```

```
make
```

```
make install
```

```
/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

```
service nagios start
```

```
chkconfig nagios on
```

```
sh nagios-plugin.sh
```

2)Install NRPE plugins

```
rpm -ivh
```

```
https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
```

```
yum install -y nrpe nagios-plugins-all
```

3)Go to the “nrpe.cfg” file and add the Public_IP in the sectioned called allowed hosts

```
vi /etc/nagios/nrpe.cfg
```

in this file go to allowed host and remove and add the IP-address of the nagios-server

4)Start the NRPE service

```
systemctl start nrpe
```

5)Enable the NRPE service

```
systemctl enable nrpe
```

-----in Nagios-server-----

5)Install NRPE plugins

```
rpm -ivh
```

```
https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
```

```
yum install -y nrpe nagios-plugins-all
```

6)vi /usr/local/nagios/etc/nagios.cfg

in this path got to the particular file and comment that file by adding # at the start the that line

```
cfg_dir=/usr/local/nagios/etc/servers
```

7)Create one folder called servers in the below mentioned path

```
mkdir /usr/local/nagios/etc/servers
```

8)Go to commands.cfg file and add the following Nagios command definition to the file

```
vi /usr/local/nagios/etc/objects/commands.cfg
```

scroll untill we get notify-host-by-email and paste

```
define command {
```

```
command_name check_nrpe
command_line /usr/lib64/nagios/plugins/check_nrpe -H $HOSTADDRESS$ -t 30 -c $ARG1$
}
```

9)cd /usr/local/nagios/etc/servers

```
10)vi hosts.cfg
in this file paste the following
define host{
use linux-server
host_name SkillRary
alias SkillRary
address 13.233.64.134
}
define hostgroup{
hostgroup_name linux-server
alias Linux Servers
members SkillRary
}
define service{
use local-service
host_name SkillRary
service_description SWAP Uasge
check_command check_nrpe!check_swap
}
define service{
use local-service
host_name SkillRary
service_description Root / Partition
check_command check_nrpe!check_root
}
define service{
use local-service
host_name SkillRary
service_description Current Users
check_command check_nrpe!check_users
}
define service{
use local-service
host_name SkillRary
service_description Total Processes
check_command check_nrpe!check_total_procs
}
define service{
use local-service
host_name SkillRary
service_description Current Load
check_command check_nrpe!check_load
}
```

after pasting change the address at first with remote-server ip-address and change the name SkillRary with any other name

11) To check is there any errors in the nagios server

```
/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

12) Restart the Nagios

```
systemctl restart nagios
```

13) Now go and check in Nagios website your host will be added but it will be down so we have to add the ping security group in the nagios_server and remote_hosting server security groups

>ALL ICMP - IPV4