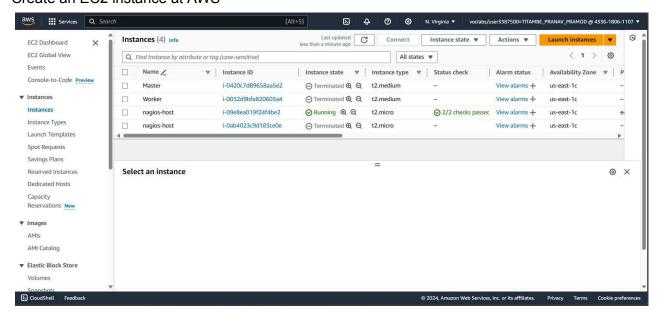
D15A

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Create an EC2 instance at AWS



After this install following commands:-

sudo apt install apache2 libapache2-mod-php php php-gd libgd-dev
gcc make autoconf libssl-dev wget unzip bc gawk dc build-essential
snmp libnet-snmp-perl gettext -y

```
System information as of Sat Sep 28 12:51:58 UTC 2024
  System load: 0.16
Usage of /: 10.6% of 14.46GB
                                         Processes:
                                                                    106
                                         Users logged in: 0
IPv4 address for enX0: 172.31.89.161
   Memory usage: 21%
   Swap usage:
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.
To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.
 ubuntu@ip-172-31-89-161:~$ sudo apt update
```

```
Weading package lists... Done
Reading package lists... Done
Reading state information... Done
Reading state information... Done
The following additional packages will be installed:
apache2-bin apache2-data apache2-utils libapache2-mod-php8.3 libapr164 libaprutil1-dbd-sqlite3 libaprutil1-ldap
libaprutil1t64 liblua5.4-0 php-common php8.3 php8.3-cli php8.3-common php8.3-opcache php8.3-readline ssl-cert
Suggested packages:
apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser php-pear
The following NEW packages will be installed:
apache2-pache2-bin apache2-data apache2-utils libapache2-mod-php8.3 libapr1644 libaprutil1-dbd-sqlite3
libaprutil1-ldap libaprutil1644 liblua5.4-0 php php-common php8.3 php8.3-cli php8.3-common php8.3-opcache
php8.3-readline ssl-cert
0 upgraded, 18 newly installed, 0 to remove and 143 not upgraded.
Need to get 6998 kB of archives.
After this operation, 39.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libaprutil164 amd64 1.6.3-1.1ubuntu7 [91.9 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-dba amd64 1.6.3-1.1ubuntu7 [9116 B]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-dba amd64 1.6.3-1.1ubuntu7 [9116 B]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-dba amd64 1.6.3-1.1ubuntu7 [9116 B]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-main amd64 libaprutil1-dba amd64 1.6.3-1.1ubuntu7 [9116 B]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-main amd64 libaprutil1-dba amd64 2.4.58-1ubuntu8.4 [1329 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2-data all 2.4.58-1ubuntu8.4 [163 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2-data all 2.4.58-1ubuntu8.4 [77. 1 kB]
```

```
Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

binutils binutils-common binutils-x86-64-linux-gnu bzip2 cpp cpp-13 cpp-13-x86-64-linux-gnu cpp-x86-64-linux-gnu

dpkg dpkg-dev fakeroot fontconfig-config fonts-dejavu-core fonts-dejavu-mono g++ g++-13 g++-13-x86-64-linux-gnu

g++-x86-64-linux-gnu gcc-13 gcc-13-base gcc-13-x86-64-linux-gnu gcc-x86-64-linux-gnu libalgorithm-diff-perl

libalgorithm-diff-xs-perl libalgorithm-merge-perl libaom3 libasana Blbatomic1 libbinutils libb22-10 libc-bin

libc-dev-bin libc-devtools libc6 libc6-dev libcc1-0 libcrypt-dev libctf-nobf00 libctf0 libde265-0 libdef1ate0

libbeif-plugin-aomdec libheif-plugin-aomenc libheif-plugin-libde265 libheif1 libhwasan0 libis23 libitm1 libjbig0

libpeg-turbo8 libjpeg8 liblerc4 liblsan0 libmpc3 libquadmath0 libsframe1 libsharpyuv0 libstc4++13-dev libtiff6

libtsan2 libubsan1 libwebp7 libxpm4 linux-libc-dev linux-tools-common locales lto-disabled-list make manpages-dev

rpcsvc-proto

Suggested packages:

binutils-doc gprofng-gui bzip2-doc cpp-doc gcc-13-locales cpp-13-doc debsig-verify debian-keyring g++-multilib

g++-13-multilib gcc-13-doc gcc-multilib autocnf automake libtool flex bison gdb gcc-doc gcc-13-multilib

gdb-x86-64-linux-gnu glibc-doc libnesi-ns libnss-nisplus bzr libgd-tools libheif-plugin-y265

libheif-plugin-ffmpegdec libheif-plugin-jpegdec libheif-plugin-jpegenc libheif-plugin-j2kdec libheif-plugin-j2kenc

libheif-plugin-ravle libheif-plugin-svtenc libstdc++-13-doc make-doc

The following NEW packages will be installed:

binutils binutils-common binutils-x86-64-linux-gnu build-essential bzip2 cpp cpp-13 cpp-13-x86-64-linux-gnu

cpp-x86-64-linux-gnu dpkg-dev fakeroot fontconfig-config fonts-dejavu-core fonts-dejavu-mono g++ g++-13

g++-13-x86-64-linux-gnu dpkg-dev fakeroot fontconfig-config fonts-dejavu-core fonts-dejavu-mono g++ g++-13

g++-13-x86-64-linux-gnu dpkg-dev fakeroot libfonto-figl0 libfoc-13-base gcc-13-x86-64-linux-g
```

```
ubuntu@ip-172-31-89-161:~$ sudo apt install libgd-dev
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libgd-dev is already the newest version (2.3.3-9ubuntu5).
0 upgraded, 0 newly installed, 0 to remove and 119 not upgraded.
ubuntu@ip-172-31-89-161:~$
```

Use this command to setup a new user called as nagios and adding it to nagomd user group

```
sudo useradd nagios
sudo groupadd nagcmd
sudo usermod -aG nagcmd nagios
sudo usermod -aG nagcmd www-data
```

```
Now download and install nagios core
```

```
cd
/tmp
wget
https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.
6. tar.gz
tar -zxvf nagios-*.tar.gz
cd nagios-4.4.6
```

Now compile and install nagios

```
sudo ./configure --with-command-group=nagcmd
sudo make all
sudo make install
sudo make install-init
sudo make install-commandmode
sudo make install-config
sudo make install-webconf
```

Now install Nagios plugins.

```
cd /tmp
wget
https://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz tar
-zxvf nagios-plugins-*.tar.gz
cd nagios-plugins-2.3.3
sudo ./configure --with-nagios-user=nagios --with-nagios-group=nagios
sudo make
sudo make install
```

```
GNU nano 7.2
                                                  /usr/local/nagios/etc/objects/contacts.cfg *
# Just one contact defined by default - the Nagios admin (that's you) # This contact definition inherits a lot of default values from the # 'generic-contact' template which is defined elsewhere.
define contact {
                                                               ; Short name of user
; Inherit default values from generic-contact template (defined abo
     contact_name
                                  nagiosadmin
                                  generic-contact
                                  Nagios Admin ; Full name of user
pranavtitambe04@gmail.com ; <<***** CHANGE THIS TO YOUR EMAIL ADDRESS ******
     alias
# CONTACT GROUPS
# We only have one contact in this simple configuration file, so there is # no need to create more than one contact group.
define contactgroup {
                                     ^W Where Is
^\ Replace
                                                                                                                                M-A Set Mark
M-6 Copy
                                                                                                             M-U Undo
M-E Redo
^G Help
^X Exit
                  ^O Write Out
^R Read File
                                                       ^K Cut
^U Paste
                                                                         ^T Execute
^J Justify
                                                                                           ^C Location
^/ Go To Line
```

Here by executing this command you need to set the password for 'nagiosadmin'

sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin

Set proper permissions for the configuration:

```
sudo a2enmod rewrite
sudo a2enmod cgi
sudo systemctl restart apache2
```

```
ubuntu@ip-172-31-89-161:~$ sudo a2enmod rewrite
sudo a2enmod cgi
sudo systemctl restart apache2
Module rewrite already enabled
Module cgi already enabled
ubuntu@ip-172-31-89-161:~$
```

Ensure your firewall allows HTTP traffic (port 80):

```
sudo ufw allow Apache
sudo ufw reload
```

```
ubuntu@ip-172-31-89-161:~$ sudo ufw allow Apache
sudo ufw reload
Skipping adding existing rule
Skipping adding existing rule (v6)
Firewall not enabled (skipping reload)
ubuntu@ip-172-31-89-161:~$
```

Starting the nagios services

```
sudo systemctl enable nagios
sudo systemctl start nagios
sudo systemctl status nagios
```

Here it will prompt to enter the username and password provide that we set earlier. Go to your AWS EC2 dashboard and copy the public ip address. The url should look like this

'http://<public-ip-address>/nagios'

