**Nagios Notes –**

**On cmd – wsl –install (window subsystem for linux)**

**Microsoft store – ubuntu ->click on get**

**If error –**

**Turn windows features on or off**

**Virtual machine platform – checked**

**Window subsystem for linux - checked**

**Install and Configure Nagios Core:**

**Update packages -**

sudo apt update

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**Install all the required packages.**

sudo apt install -y apache2 php gcc curl openssl build-essential libgd-dev libssl-dev libapache2-mod-php php-gd libmcrypt-dev daemon wget unzip

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**Create user and group for nagios and assigns appropriate permissions-**

sudo useradd nagios

sudo groupadd nagcmd

sudo usermod -a -G nagcmd nagios

sudo usermod -a -G nagcmd www-data

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**Download Nagios Core Setup files.**

cd /tmp

wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.14.tar.gz

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**Extract the downloaded files**

sudo tar -zxvf nagios-4.4.14.tar.gz

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**Navigate to the setup directory.**

cd nagios-4.4.14

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**Compile and install nagios and its configuration/web interface**

sudo ./configure –with-command-group=nagcmd

sudo apt install make

sudo make all

sudo make install-commandmode

sudo make install-init

sudo make install-config

sudo make install-webconf

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**Setup the http authentication for web interface –**

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

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**Restart the Apache service.**

sudo systemctl restart apache2

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**Enable apache rewrite mode.**

sudo a2enmod rewrite

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**Enable CGI config.**

sudo a2enmod cgi

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sudo systemctl daemon-reload

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**Start the Nagios service.**

sudo systemctl start nagios

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**Enable Nagios service to run at system startup.**

sudo systemctl enable nagios

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**Access via** – http://<<your server ip>>/nagios

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**Installing Nagios Plugins (eg check\_load)**

sudo apt install -y autoconf gcc libperl-dev make libssl-dev libgd-dev gettext

**Installs build dependencies –**

cd /tmp

wget <https://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz>

tar -xvzf nagios-plugins-2.3.3.tar.gz

cd nagios-plugins-2.3.3

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

Make

Sudo make install

**Compile and installs officials Nagios Plugins including check\_load, check\_disk, check\_http etc.**

**Verify plugin exists –**

ls /usr/local/nagios/libexec/check\_load

**Configuring Nagios Monitoring (CPU Load)**

**How to create or Edit Required Files**

**To edit the file where the service is defined**

sudo nano /usr/local/nagios/etc/objects/localhost.cfg

* If file doesn’t exist, this will create it
* Scroll to bottom or paste the service definition directly.

**To edit the file where the command is defined**

sudo nano /usr/local/nagios/etc/objects/commands.cfg

* Paste the command block at the end
* Save using ctrl+O , press enter, then exit with ctrl+X

Then proceed with the steps below:

**Step1 – define service in localhost.cfg**

define service{

use generic-service

host\_name localhost

service\_description CPU Load

check\_command check\_load!4,8,12!5,10,15

}

**Explanation**-

Check\_load!warn!crit – check CPU load average

4,8,12 (warning),5,10,15(critical) represents thresholds for 1/5/15-minutes average.

**Step2: Define command in command.cfg**

Define command{

command\_name check\_load

command\_line $USER1$/check\_load -w $ARG1$ -c $ARG2$

}

**Explanation**:

* $USER1$ points to /usr/local/nagios/libexec
* $ARG1$ and $ARG2$ are threshold arguments passed from service definition

**Step 3: validate config**

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

**Expected Output-**

Total Warning :0

Total Errors:0

**Step4: Restart Nagios**

sudo systemctl restart nagios

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