Assignment 3:

Configure Monitoring to Enable Health Checks

Student Information

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* **Date (dd/mm/yy):** \_\_9/30/2024\_

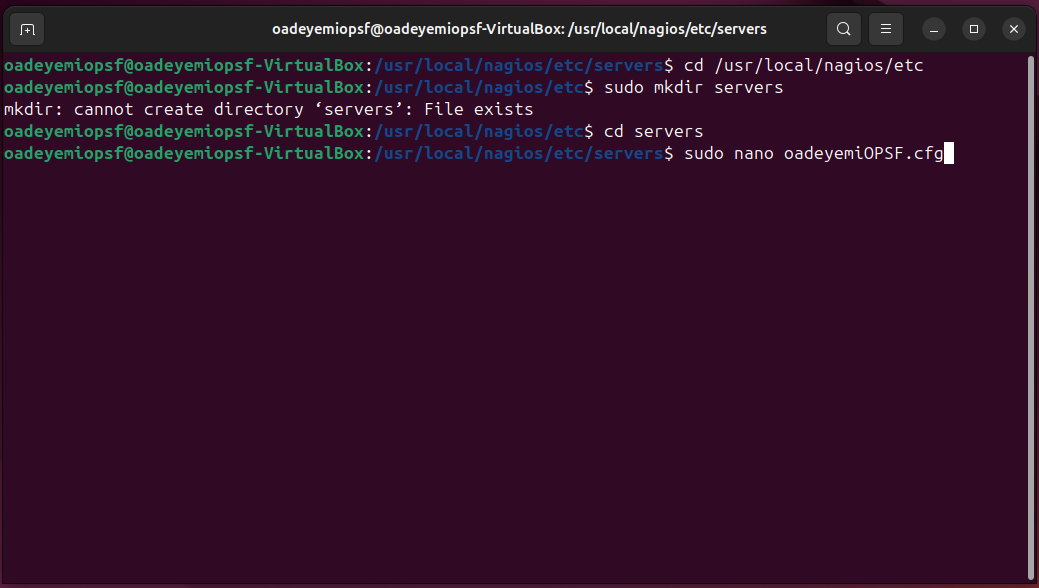
**Configuration Guide**

Follow the instructions to enable health checks on a new host using Nagios:

(The name TestHost in these instructions can be replaced by any other valid name for the host)

1. Open the Terminal on the Linux machine on which Nagios is setup by pressing **Ctrl+Alt+T** and give the following commands:
   1. *cd /usr/local/nagios/etc*
   2. *mkdir servers ( the directory was already created previously.)*
   3. *cd servers*
   4. *sudo nano TestHost.cfg*

After entering your password, TestHost.cfg will be opened in the Nano text editor. Here we will define the host we want to monitor and the health checks that need to be performed.



1. Type the following in the text editor:

*define host {*

*use linux-server ; Name of host template to use*

*host\_name TestHost*

*alias TestHost*

*address 127.0.0.1*

*}*

*define service {*

*use local-service ; Name of service template to use*

*host\_name TestHost*

*service\_description Disk Space Usage*

*check\_command check\_local\_disk!15%!10%/*

*}*

*define service {*

*use local-service ; Name of service template to use*

*host\_name TestHost*

*service\_description Memory Usage*

*check\_command check\_local\_swap!15%!10%/*

*}*

*define service {*

*use local-service ; Name of service template to use*

*host\_name TestHost*

*service\_description PING*

*check\_command check\_ping!100.0,20%!500,60%*

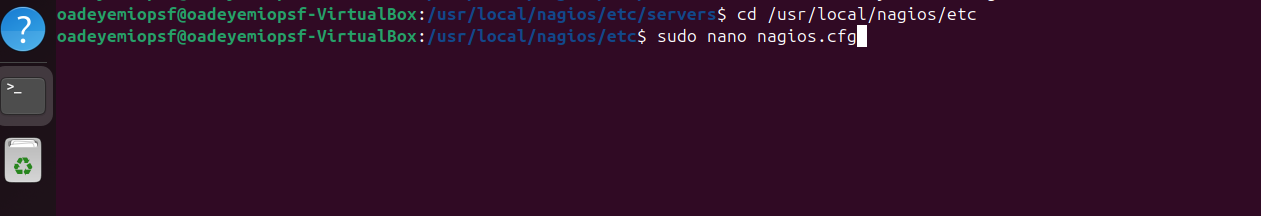
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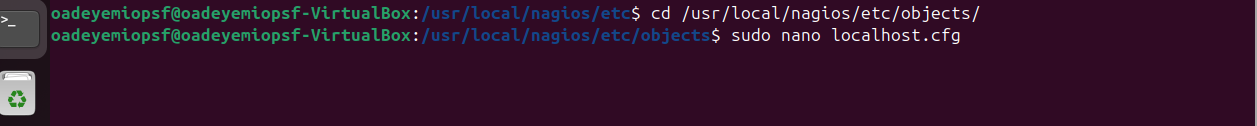
1. Use Ctrl + X key combination, then press ‘Y’ followed by Enter to save the file and exit the editor.
2. In the terminal, give the following commands:
   1. *cd /usr/local/nagios/etc*
   2. *sudo nano nagios.cfg*



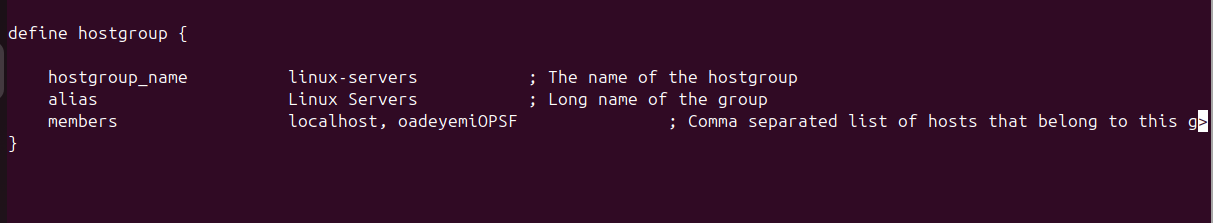
1. Here, scroll down and find “*#cfg\_dir=/usr/local/nagios/etc/servers”* and remove the # in front of the line.



1. Use Ctrl + X key combination, then press ‘Y’ followed by Enter to save the file and exit the editor.
2. In the terminal give the following commands:
   1. *cd /usr/local/nagios/etc/objects*
   2. *sudo nano localhost.cfg*

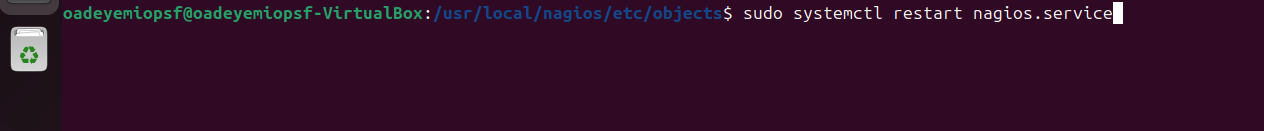


1. Here, scroll down and find the *“define hostgroup” piece of code and against the “members” attribute, change the text from “localhost” to “localhost, TestHost”.*

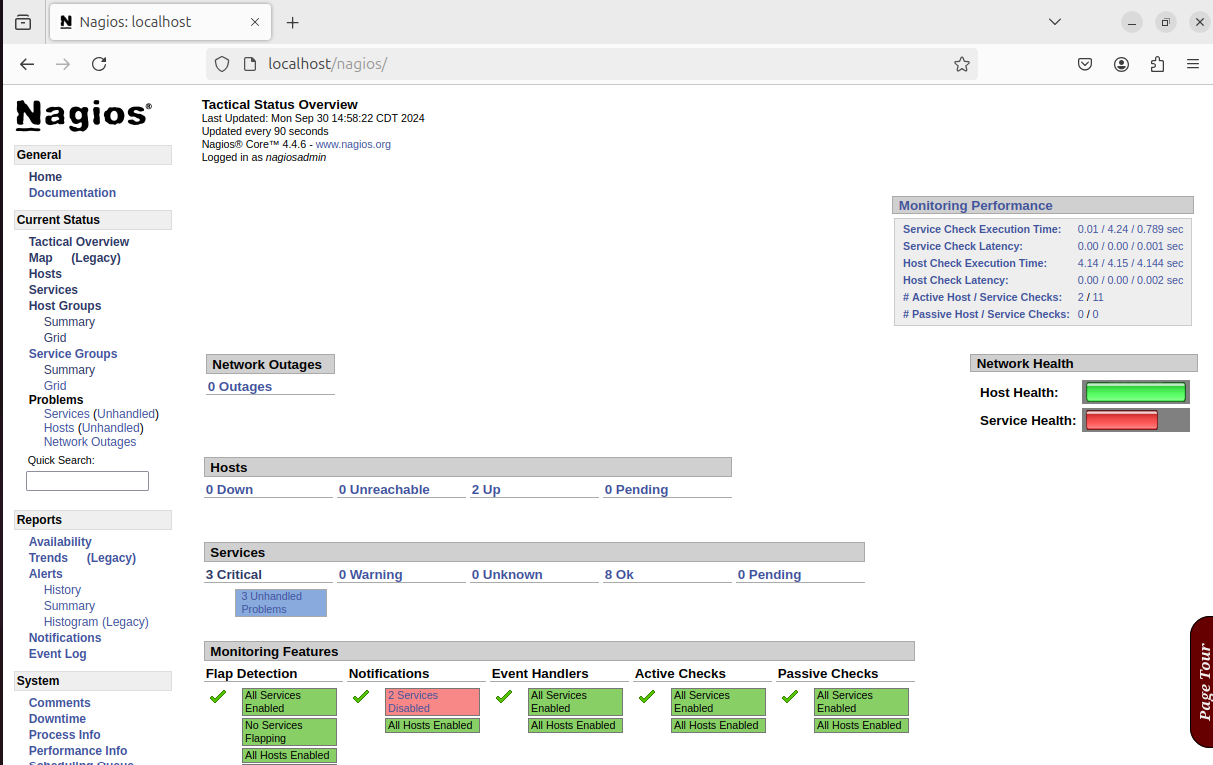


1. Use Ctrl + X key combination, then press ‘Y’ followed by Enter to save the file and exit the editor.
2. In the terminal, give the following command:

*sudo systemctl restart nagios.service*

**

1. The required checks are now configured and can be checked on the Nagios Web GUI:
   1. Open your web browser and go to <http://localhost/nagios>.
   2. Open Tactical Overview by clicking the text on column. You should see a value of 2 in the UP column in Host section.
   3. Click on this number 2. You will find the TestHost along with the localhost in a list.
   4. Click on the magnifying glass next TestHost label. Service Status Details will be opened for TestHost. Here, you can observe the status of the 3 health checks.



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Resource

Documentation | Nagios Open Source. (n.d.). Nagios Open Source. <https://www.nagios.org/documentation/>

CloudCoachingMentor. (2022, August 4). *Nagios Monitoring Tool | Case Study | Adding Host and Service in Nagios Core |mymt15* [Video]. YouTube. <https://www.youtube.com/watch?v=FsWac47RSNc>

Scaleway Documentation ([*Configuring a Nagios Monitoring System on Scaleway*](https://www.scaleway.com/en/docs/tutorials/configure-nagios-monitoring/#:~:text=make%20install-config.%20Installing%20Apache.%20In%20this%20tutorial,%20we%20use%20Apache), (n.d.)