

How to Add Linux Host in Zabbix Server for Monitoring

We need to install the Zabbix Agent on the remote host which is going to ship the metrics of the remote system to the Zabbix server for monitoring.

Step 1) Adding the Zabbix repository:

```
#dnf install https://repo.zabbix.com/zabbix/5.0/rhel/8/x86_64/zabbix-agent-5.0.0-1.el8.x86_64.rpm
```

Step 2) Configure zabbix agent:

```
#vim /etc/zabbix/zabbix_agentd.conf
```

Set the Server and hostname directives to match the Zabbix server's parameters as shown:

```
Server=10.128.0.10           Zabbix server IP Address  
  
hostname=zabbix-server      Zabbix server hostname
```

Once done, save & exit the configuration file.

Restart the Zabbix-agent daemon and confirm whether it's running:

```
#systemctl restart zabbix-agent  
  
#systemctl status zabbix-agent
```

Step 3) Configure the firewall rule for zabbix-agent:

To allow Zabbix-agent to establish communication with the Zabbix Server and vice versa , configure the firewall by running the commands as shown:

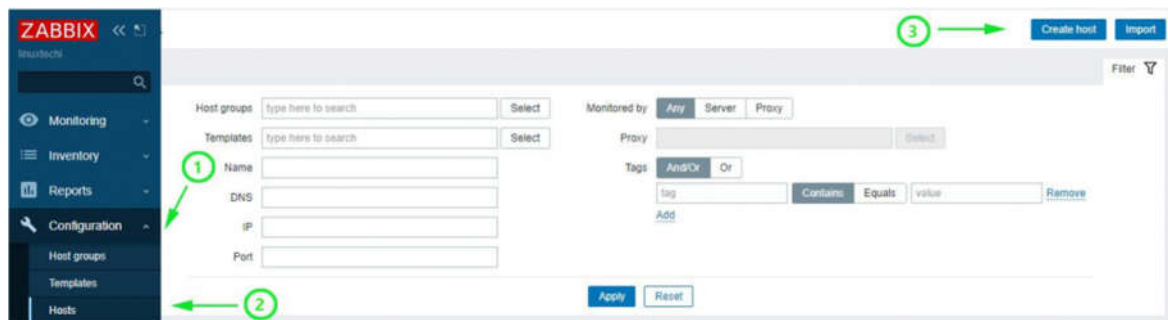
```
#firewall-cmd --zone=public --add-port=10050/tcp --permanent  
  
#firewalld-cmd --reload
```

Adding or Registering Remote Linux Host in Zabbix Server

Login to your Zabbix Server portal using admin user's credentials .

To add a host on the Zabbix server, click on **Configuration** -> **Hosts**.

On the far top- right end, click on the 'Create host' button



← → ↻ ⚠ Not secure 35.222.20.56/zabbix/hosts.php?form=create ☆ 🌐

ZABBIX << 📄

linuxdechi

Monitoring

Inventory

Reports

Configuration

Host groups

Templates

Hosts

Maintenance

Actions

Event correlation

Discovery

Services

Hosts

Host Templates IPMI Tags Macros Inventory Encryption

* Host name ubuntu20-04

Visible name Ubuntu 20.04 LTS

* Groups type here to search Select

* Interfaces	Type	IP address	DNS name	Connect to	Port	Default
Agent	10.128.0.12		IP DNS	10050	<input checked="" type="radio"/> Remove	

Add

Description Ubuntu 20.04 LTS Server

Monitored by proxy (no proxy)

Enabled ☒

Add Cancel

4

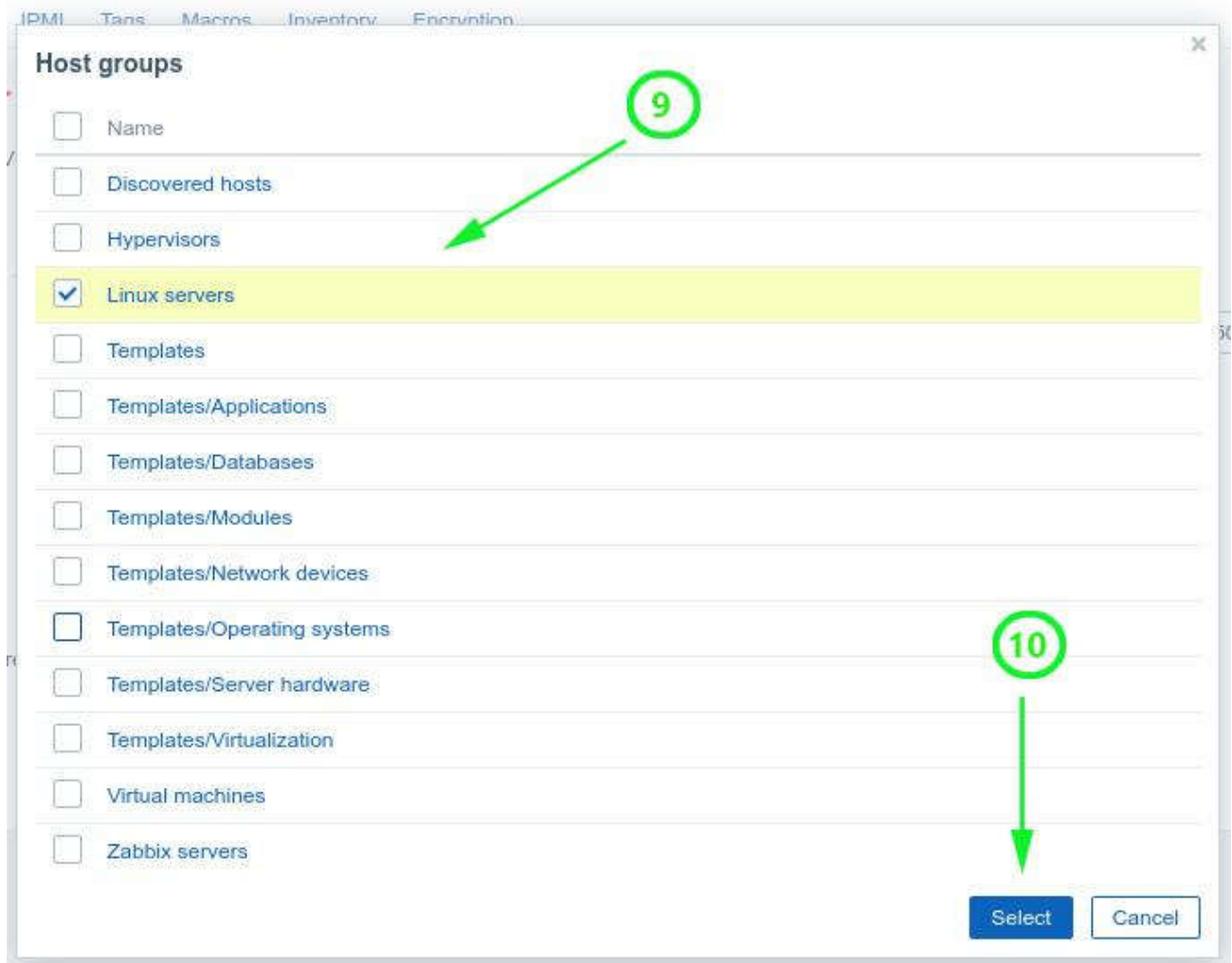
5

8

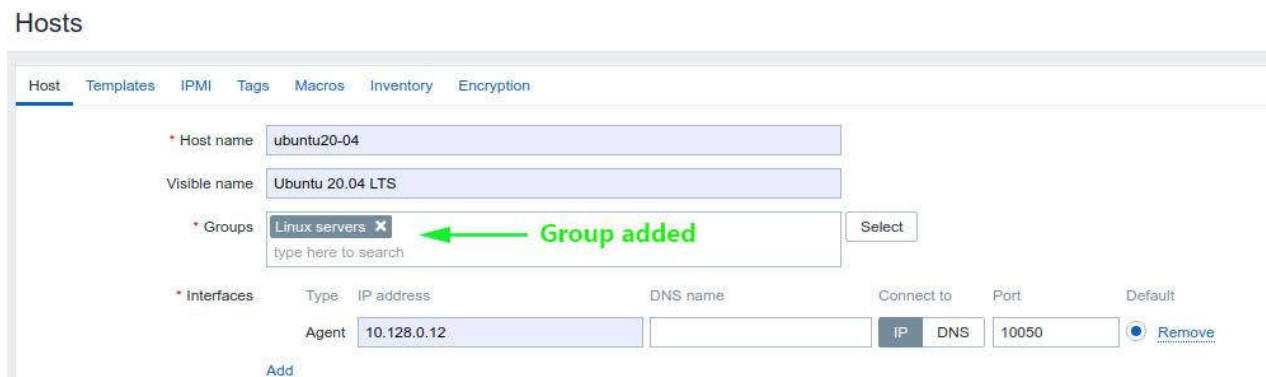
6

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Next, click on the **select** button next to the **Groups** text field. On the **Host groups** list, click on **Linux servers** and then click **Select**.



As you can see, the group has been added.



We also need to add a template for our server. So, click on the **‘Templates’** menu option.



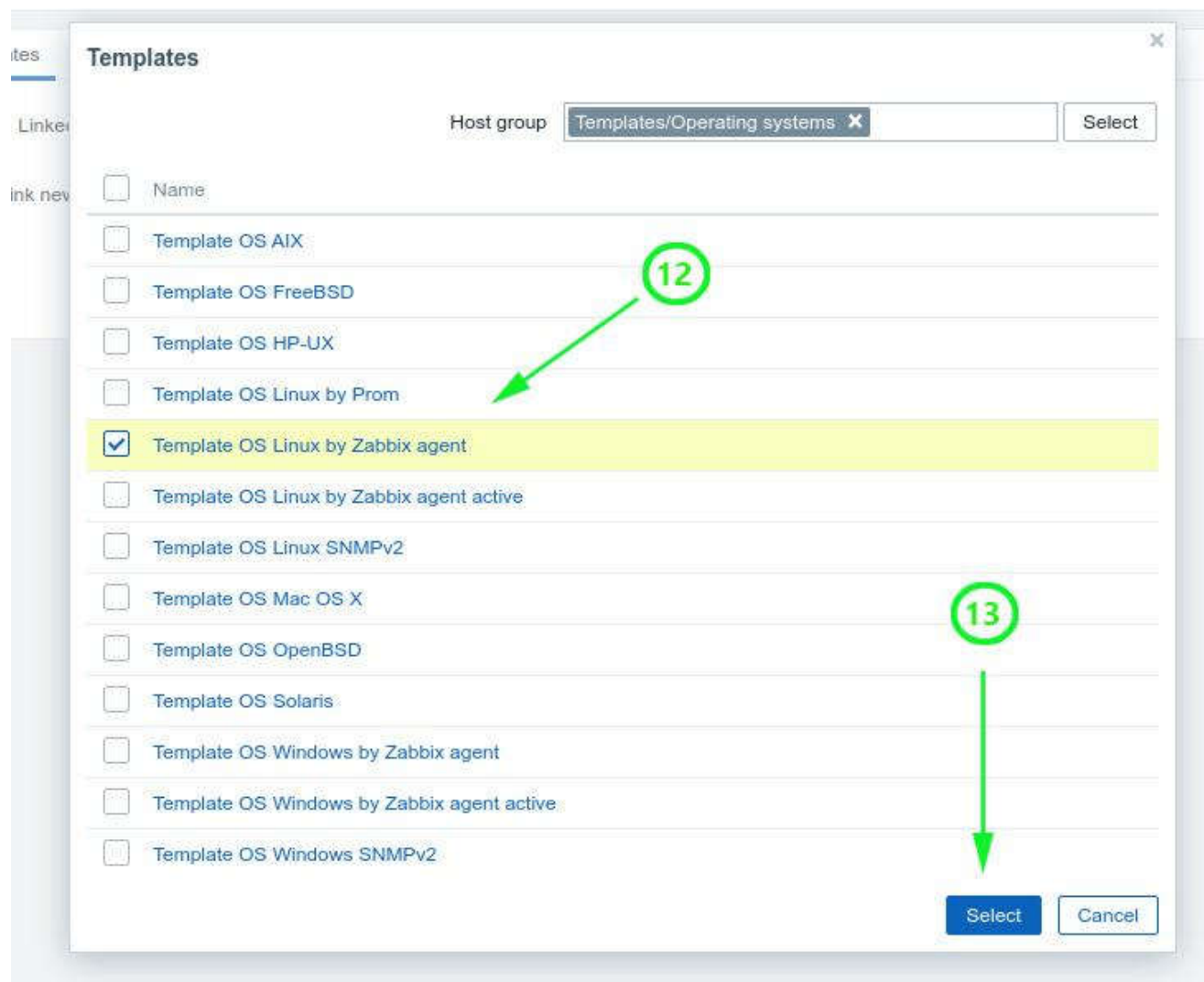
Hosts

Host Templates IPMI Tags Macros Inventory Encryption

* Host name ubuntu20-04

Visible name Ubuntu 20.04 LTS

On the **‘Templates’** list that appears, click on **‘Template OS Linux by Zabbix agent’** and hit the **‘Select’** button.



Templates

Host group Templates/Operating systems X Select

☐ Name

☐ Template OS AIX

☐ Template OS FreeBSD

☐ Template OS HP-UX

☐ Template OS Linux by Prom

☒ Template OS Linux by Zabbix agent

☐ Template OS Linux by Zabbix agent active

☐ Template OS Linux SNMPv2

☐ Template OS Mac OS X

☐ Template OS OpenBSD

☐ Template OS Solaris

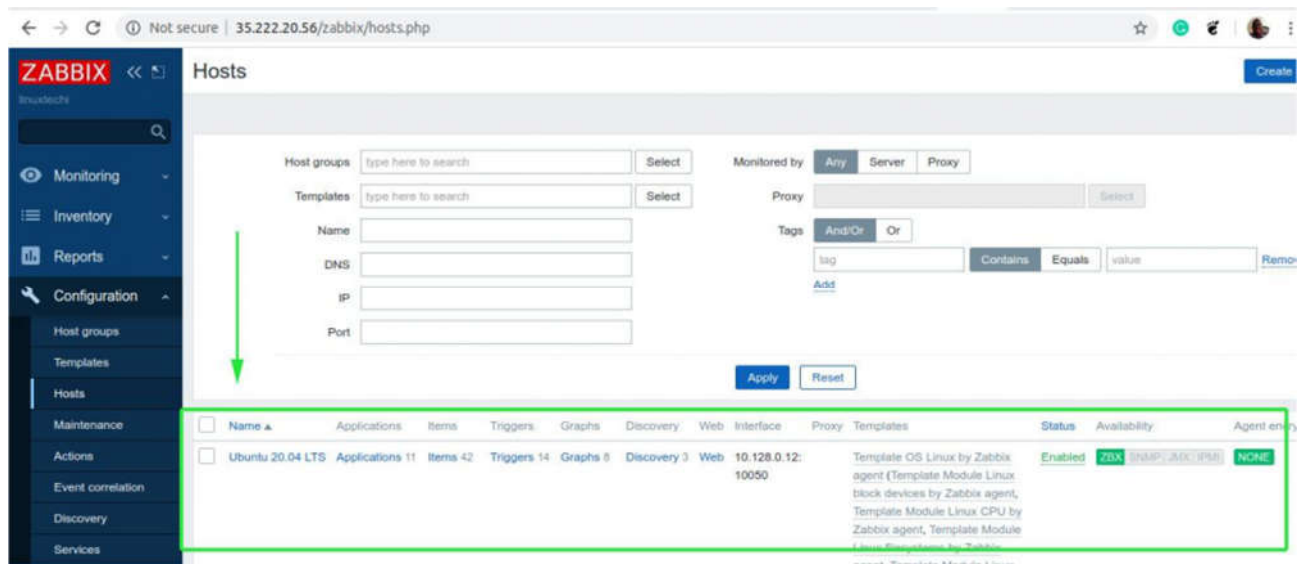
☐ Template OS Windows by Zabbix agent

☐ Template OS Windows by Zabbix agent active

☐ Template OS Windows SNMPv2

Select Cancel

This takes you back to the home screen and there you can see that your new host system has been added.



Graphing statistics of the remote hosts

To represent system metrics in a graphical form, click on 'Monitoring' -> 'Hosts'

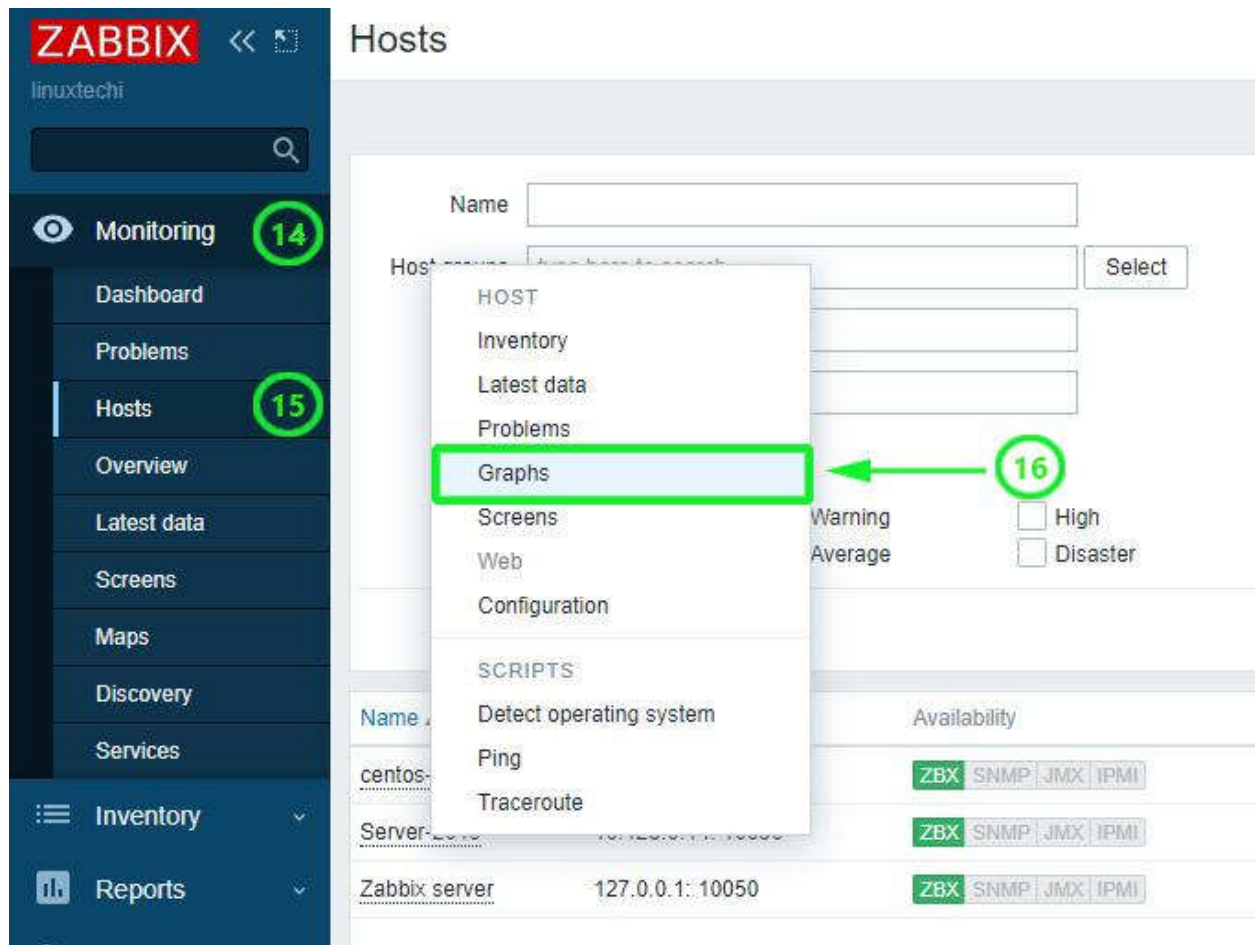
Name	Interface	Availability	Tags	Problems	Status	Latest data	Problems	Graphs	Screens	
zabbix-client	192.168.188.249: 10050	ZBX SNMP JMX IPMI		1	Enabled	Latest data	Problems 1	Graphs 8	Screens 2	V
Zabbix Client	192.168.123.6: 10050	ZBX SNMP JMX IPMI		1	Enabled	Latest data	Problems 1	Graphs 7	Screens 2	V
Zabbix server	127.0.0.1: 10050	ZBX SNMP JMX IPMI		1	Enabled	Latest data	Problems 1	Graphs 25	Screens 3	V

Displaying 3 of 31

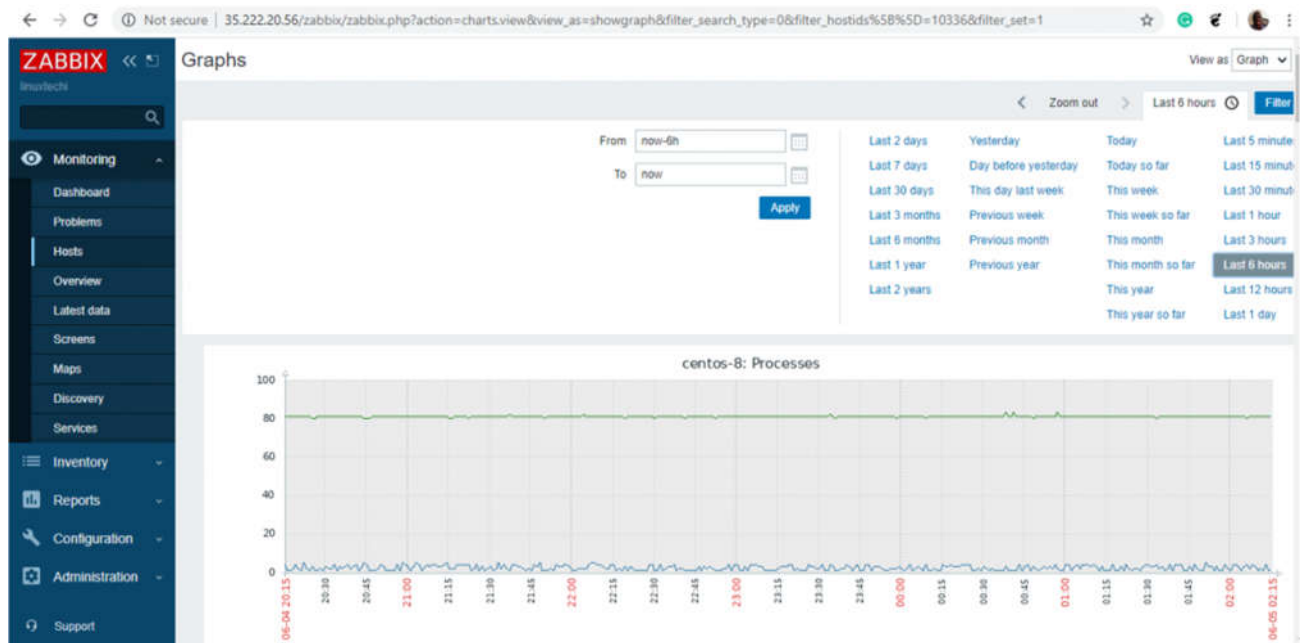
The Availability column contains indicators of host availability per each interface. We have defined a Zabbix agent interface, so we can use the agent availability icon (with 'ZBX' on it) to understand host availability:

- host status has not been established; no metric check has happened yet
- ZBX - host is available, a metric check has been successful
- ZBX - host is unavailable, a metric check has failed (move your mouse cursor over the icon to see the error message). There might be some error with communication, possibly caused by incorrect interface credentials. Check that Zabbix server is running, and try refreshing the page later as well.

Next, click on the host you want to graph and select the 'graph' option from the pull-up menu.



Zabbix server will begin generating various graphs representing various system metrics such as Processes, CPU load, and network traffic statistics to mention a few.



Scroll down to view other graphs displaying various metrics as shown below.

