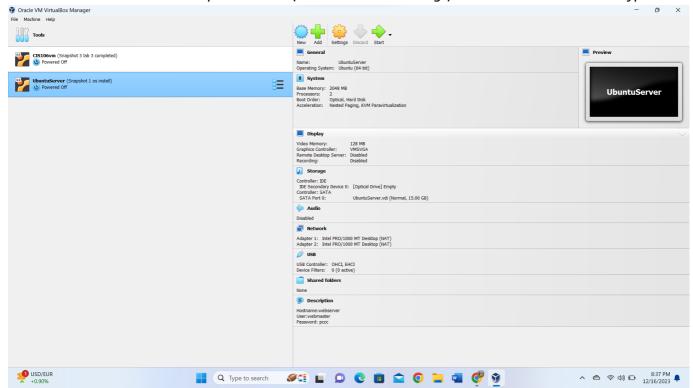
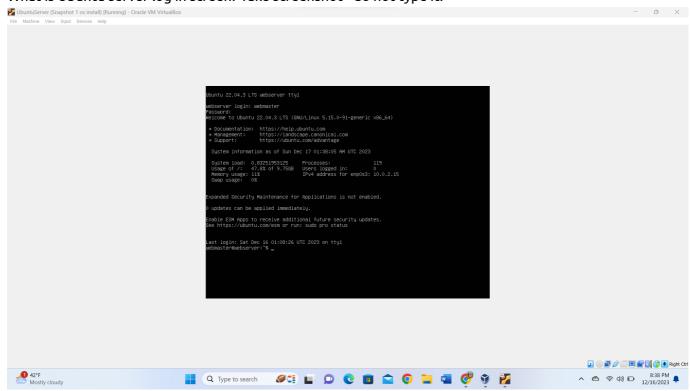
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What are the server hardware specifications (virtual machine settings)? Take a screenshot - don't type it!



What is Ubuntu server log in screen? Take screenshot - do not type it!



What is the IP address of your Ubuntu Server Virtual Machine?

10.0.2.15

How do you enable the Ubuntu Firewall?

sudo ufw enable

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How do you check if the Ubuntu Firewall is running?

sudo ufw status

How do you disable the Ubuntu Firewall?

sudo ufw disable

How do you add Apache to the Firewall?

sudo ufw allow 'Apache'

What is the command you used to install Apache?

sudo apt install apache2 -y

What is the command you use to check if Apache is running?

sudo systemctl status apache2 --no-pager

What is the command you use to stop Apache?

sudo systemctl stop apache2 --no-pager

What is the command you use to restart Apache?

sudo systemctl restart apache2 --no-pager

What is the command used to test Apache configuration?

sudo apache2ctl configtest

What is the command used to check the installed version of Apache?

apache2 -v

What are the most common commands to troubleshoot Apache errors? Provide a brief description of each command.

To inspect the state of the Apache processes on your system *sudo systemctl status apache2.service -l -- no-pager*

To inspect the systemd logs for Apache, you can use the journalctl command **sudo journalctl -u apache2.service --since today --no-pager**

test your Apache configuration using the apachectl configtest command. sudo apachectl configtest

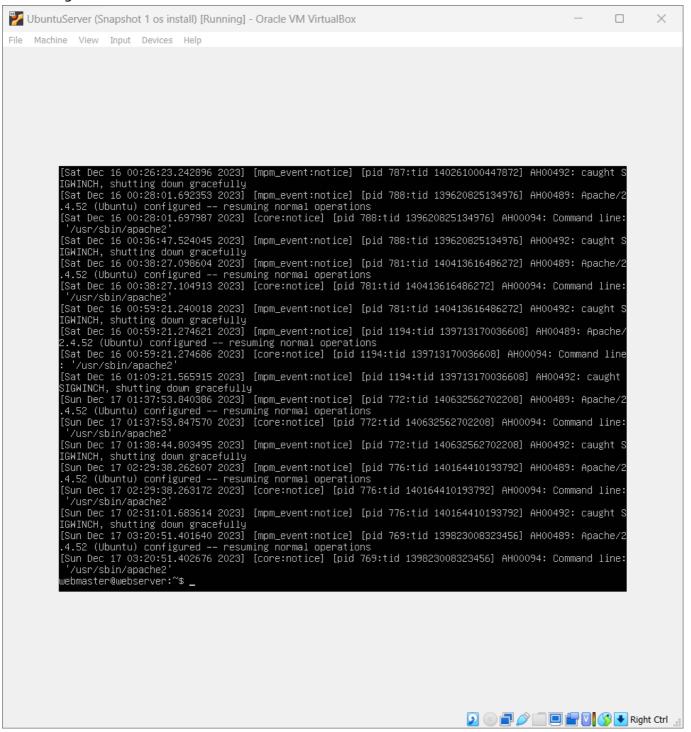
To examine log files for errors

sudo tail -n 2 /var/log/apache2/error.log

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Which are Apache Log Files, and what are they used for? Provide examples and screenshots.

sudo tail -n 2 /var/log/apache2/error.log Error Log: This includes server faults, script errors, and requests for missing files.



sudo tail -n 2 /var/log/apache2/access.log Access Log: records all requests received by the server. Each entry includes details like the client's IP address, request date/time, requested page, HTTP code, and more.

```
webmaster@webserver:~$ sudo cat /var/log/apache2/access.log
10.0.2.2 - - [16/Dec/2023:01:04:14 +0000] "GET / HTTP/1.1" 200 451 "-" "Mozilla/5.0 (Windows NT 10.0
; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/120.0.0.0 Safari/537.36"
10.0.2.2 - - [16/Dec/2023:01:04:14 +0000] "GET /favicon.ico HTTP/1.1" 404 489 "http://127.0.0.1:8080
/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/120.0.0.
0 Safari/537.36"
10.0.2.2 - - [16/Dec/2023:01:05:06 +0000] "-" 408 0 "-" "-"
webmaster@webserver:~$
```