

Deliverable 2 - Installing Ubuntu Server and Apache

What are the server hardware specifications?

General

Name:

Ubuntu Server

Operating System:

Ubuntu (64-bit)

System

Base Memory:

2048 MB

Processors:

2

Boot Order:

Optical, Hard Disk

Acceleration:

Nested Paging, KVM Paravirtualization

Display

Video Memory:

128 MB

Graphics Controller:

VMSVGA

Remote Desktop Server:

Disabled

Recording:

Disabled

Storage

Controller:

IDE

IDE Secondary Device 0:

[Optical Drive] Empty

Controller:

SATA

SATA Port 0:

Ubuntu Server.vdi (Normal, 15.00 GB)

Audio

Disabled

Network

Adapter 1:

Intel PRO/1000 MT Desktop (NAT)

USB

USB Controller:

OHCI, EHCI

Device Filters:

0 (0 active)

Shared folders

None

Description

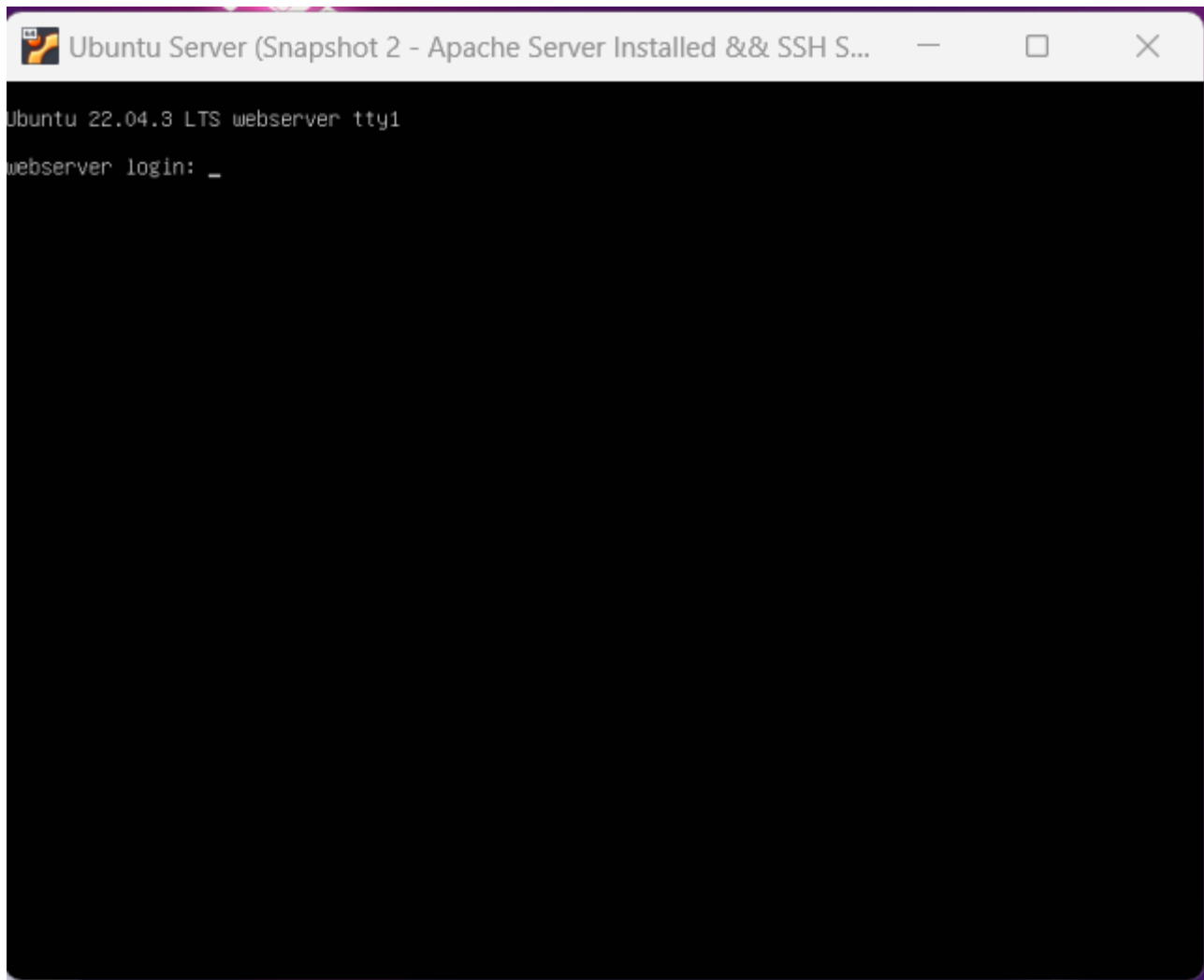
hostname:

webserver

user:

closer

What is Ubuntu server log in screen?



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

- The ip address of my Ubuntu Server Virtual Machine is 127.0.0.1

How do you enable the Ubuntu Firewall?

- you enable firewall with the command `sudo ufw enable`

How do you check if the Ubuntu Firewall is running?

- you check if the Ubuntu Firewall is running with the command `sudo ufw status`

How do you disable the Ubuntu Firewall?

- you disable firewall with the command `sudo ufw disable`

How do you add Apache to the Firewall?

- you add Apache to the firewall with the command `sudo ufw allow 'Apache'`

What is the command you used to install Apache?

- you install Apache with the command `sudo apt install apache2`

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

- you check if Apache is running with the command `sudo systemctl status apache2 --no-pager`

What is the command you use to stop Apache?

- you can stop Apache with the command `sudo systemctl stop apache2`

What is the command you use to restart Apache?

- you can restart Apache with the command `sudo systemctl restart apache2`

What is the command used to test Apache configuration?

- you can test the Apache configuration with the command `sudo apachectl -t`

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

- you can check the installed version of Apache with the command `sudo apache2 -v`

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

- some of the most common commands to troubleshoot Apache errors are:
 - `systemctl`
 - interacts with the systemd manager, controls services
 - `journalctl`
 - used to view logs
 - `apachectl`
 - is used to check apache configurations

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

```

[loser@webserver:~]$ sudo cat /var/log/apache2/error.log
[Sat Dec 23 02:35:31.248654 2023] [mpm_event:notice] [pid 1593:tid 140687262799744] AH00489: Apache/2.4.52 (Ubuntu) configured -- resuming normal operations
[Sat Dec 23 02:35:31.248726 2023] [core:notice] [pid 1593:tid 140687262799744] AH00094: Command line: '/usr/sbin/apache2'
[Sat Dec 23 02:39:45.144035 2023] [mpm_event:notice] [pid 1593:tid 140687262799744] AH00492: caught SIGWINCH, shutting down gracefully
[Sat Dec 23 02:39:45.184557 2023] [mpm_event:notice] [pid 2166:tid 139913140889472] AH00489: Apache/2.4.52 (Ubuntu) configured -- resuming normal operations
[Sat Dec 23 02:39:45.184609 2023] [core:notice] [pid 2166:tid 139913140889472] AH00094: Command line: '/usr/sbin/apache2'
[Sat Dec 23 02:39:45.184680 2023] [mpm_event:notice] [pid 2166:tid 139913140889472] AH00492: caught SIGWINCH, shutting down gracefully
[Sat Dec 23 02:40:05.756707 2023] [mpm_event:notice] [pid 2241:tid 139749758695296] AH00489: Apache/2.4.52 (Ubuntu) configured -- resuming normal operations
[Sat Dec 23 02:40:05.756762 2023] [core:notice] [pid 2241:tid 139749758695296] AH00094: Command line: '/usr/sbin/apache2'
[Sat Dec 23 02:41:30.360365 2023] [mpm_event:notice] [pid 2241:tid 139749758695296] AH00492: caught SIGWINCH, shutting down gracefully
[Sat Dec 23 02:48:27.382842 2023] [mpm_event:notice] [pid 779:tid 139985753786240] AH00489: Apache/2.4.52 (Ubuntu) configured -- resuming normal operations
[Sat Dec 23 02:48:27.477828 2023] [core:notice] [pid 779:tid 139985753786240] AH00094: Command line: '/usr/sbin/apache2'
[Sat Dec 23 03:05:38.023139 2023] [mpm_event:notice] [pid 779:tid 139985753786240] AH00493: SIGUSR1 received. Doing graceful restart
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress this message
[Sat Dec 23 03:05:38.026855 2023] [mpm_event:notice] [pid 779:tid 139985753786240] AH00489: Apache/2.4.52 (Ubuntu) configured -- resuming normal operations
[Sat Dec 23 03:05:38.026861 2023] [core:notice] [pid 779:tid 139985753786240] AH00094: Command line: '/usr/sbin/apache2'
[Sat Dec 23 03:10:10.176868 2023] [mpm_event:notice] [pid 779:tid 139985753786240] AH00492: caught SIGWINCH, shutting down gracefully
[Sat Dec 23 03:10:10.223497 2023] [mpm_event:notice] [pid 1329:tid 140614881884032] AH00489: Apache/2.4.52 (Ubuntu) configured -- resuming normal operations
[Sat Dec 23 03:10:10.223568 2023] [core:notice] [pid 1329:tid 140614881884032] AH00094: Command line: '/usr/sbin/apache2'
[Sat Dec 23 03:29:56.242941 2023] [mpm_event:notice] [pid 1329:tid 140614881884032] AH00492: caught SIGWINCH, shutting down gracefully
[Sat Dec 23 03:35:02.955974 2023] [mpm_event:notice] [pid 782:tid 140533805062016] AH00489: Apache/2.4.52 (Ubuntu) configured -- resuming normal operations
[Sat Dec 23 03:35:02.957207 2023] [core:notice] [pid 782:tid 140533805062016] AH00094: Command line: '/usr/sbin/apache2'
[loser@webserver:~]$

```

- Apache log files are entries that contain information about apache processes. If there is an error, these logs will help in identifying the problem and implementing a solution.