Deliverable 2
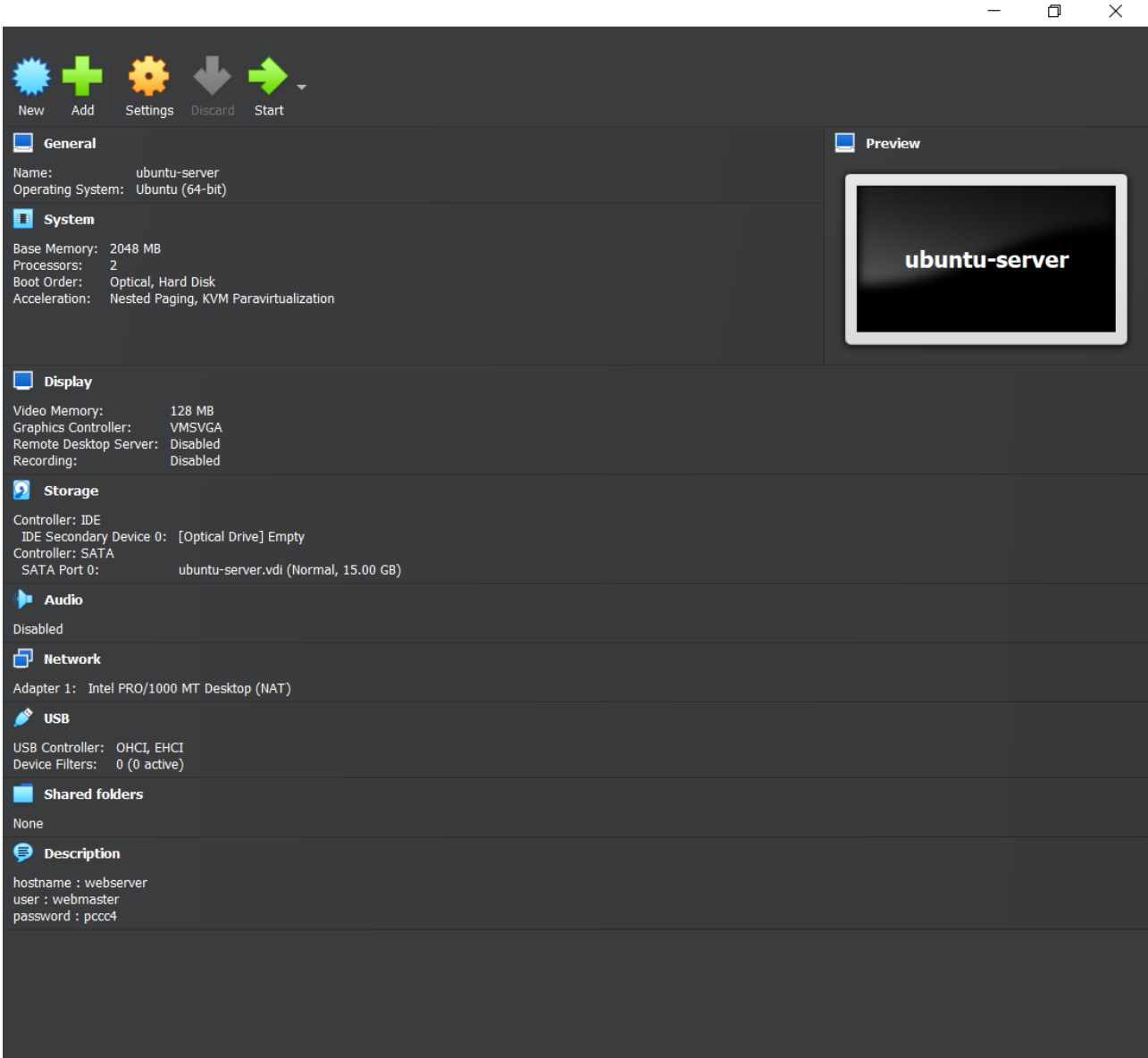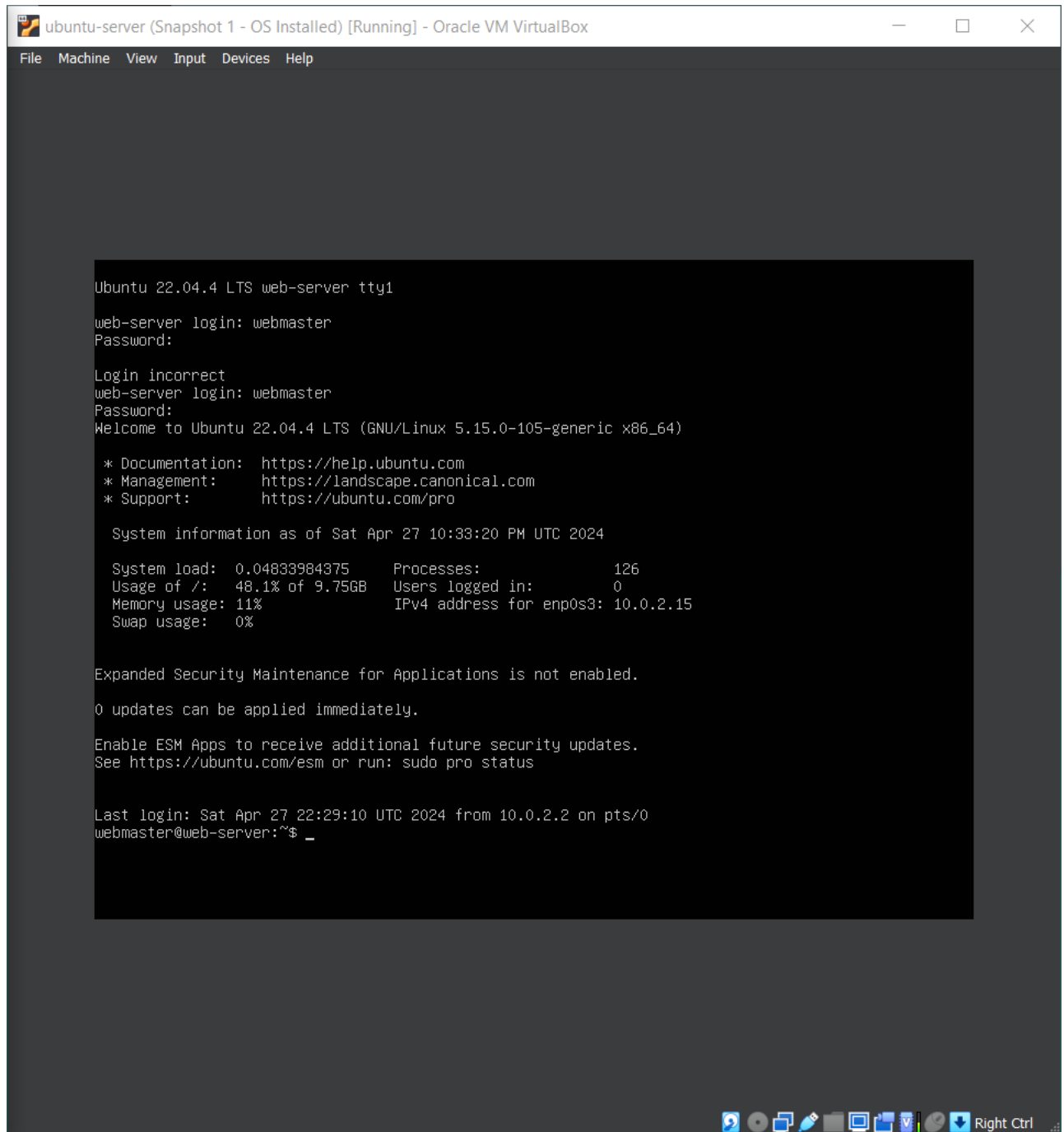
Server Hardware Specs

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

Ubuntu Server Log In

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

Additional Questions

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

  - The IP address of my Ubuntu Server is 10.0.2.15.

- How do you enable the Ubuntu Firewall?

  - You enable the Ubuntu Firewall by running the command "sudo ufw enable" .

- How do you check if the Ubuntu Firewall is running?

  - You can check the status of the Ubuntu Firewall by running the command "sudo ufw enable" .

- How do you disable the Ubuntu Firewall?

- You enable the Ubuntu Firewall by running the command "sudo ufw disable" .

- How do you add Apache to the Firewall?

  - To add Apache to the Firewall by running the command "sudo ufw allow "Apache" " .

- What is the command you used to install Apache?

  - The command to install Apache is "sudo apt install apache2 -y" .

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

  - The command to check if Apache is running is "systemctl status apache2 --no-pager" .

- What is the command you use to stop Apache?

  - The command you used to stop Apache is "sudo systemctl stop apache2" .

- What is the command you use to restart Apache?

  - The command to restart Apache is "sudo systemctl restart apache2" .

- What is the command used to test Apache configuration?

  - The command to test Apache configuration is "sudo apachectl -t" .

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

  - The command used to check the installed version of Apache is "sudo apache2 -v" .

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

  - The most common commands to troubleshoot Apache errors are:
    - systemctl - Used to control and interact with Linux services via the systemd service manager.
    - journalctl - Used to query and view the logs that are generated by systemd.
    - apachectl - When troubleshooting, this command is used to check Apache's configuration.

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

  - Apache log files are a very helpful resource for troubleshooting, any error that you receive in a browser or other HTTP client will have a corresponding entry in Apache's logs.
    - Example:
      - Showing Apache2 Log Files using tail and head

- Showing Apache2 Log Files using cut and delimeters

```
webmaster@web-server:~$ cut -d']' -f1 /var/log/apache2/error.log
[Sat Apr 27 18:46:52.440139 2024
[Sat Apr 27 18:46:52.440317 2024
[Sat Apr 27 18:52:17.895009 2024
[Sat Apr 27 19:05:45.229260 2024
[Sat Apr 27 19:05:45.229999 2024
[Sat Apr 27 20:12:27.617434 2024
[Sat Apr 27 20:12:27.666090 2024
[Sat Apr 27 20:12:27.666284 2024
[Sat Apr 27 22:30:11.689141 2024
[Sat Apr 27 22:30:18.676031 2024
[Sat Apr 27 22:30:18.681653 2024
[Sat Apr 27 22:34:00.337196 2024
[Wed May 01 05:43:54.466833 2024
[Wed May 01 05:43:54.468850 2024
```

- Showing Apache2 Log Files using cut and delimeters