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CIS-106

Spring 2024

Deliverable 2

1. Server Specifications

2. Log in screen

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

192.168.17.195

4. How do you enable the Ubuntu Firewall?

   sudo ufw enable

5. How do you check if the Ubuntu Firewall is running?

   sudo ufw status

6. How do you disable the Ubuntu Firewall?

   sudo ufw disable

7. How do you add Apache to the Firewall?

   sudo ufw allow 'Apache'

8. What is the command you used to install Apache?

   sudo apt install apache2 -y

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

   sudo systemctl status apache2 --no-pager

10. What is the command you use to stop Apache?

    sudo systemctl stop apache2

11. What is the command you use to restart Apache?

    sudo systemctl restart apache2 ssh

12. What is the command used to test Apache configuration?

    sudo apche2ctl configtest

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

    sudo systemctl status apache2

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

- systemctl - used to control and manage servers
    - apachectl - used to check the Apache config files for error
    - journalctl - used to query and view the logs

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

Apache logs contain records of the web servers. You can use the head, cat, tail, etc- command to view these logs.

```
webmaster@webserver:~$ head -5 /var/log/apache2/error.log
[Sun Apr 14 00:15:11.845737 2024] [mpm_event:notice] [pid 1526:tid 140015906109312] AH(
2.4.52 (Ubuntu) configured -- resuming normal operations
[Sun Apr 14 00:15:11.845807 2024] [core:notice] [pid 1526:tid 140015906109312] AH00094:
 '/usr/sbin/apache2'
[Sun Apr 14 00:18:06.176068 2024] [mpm_event:notice] [pid 1526:tid 140015906109312] AH(
SIGWINCH, shutting down gracefully
[Sun Apr 14 00:18:06.214637 2024] [mpm_event:notice] [pid 2095:tid 140460724029312] AH(
2.4.52 (Ubuntu) configured -- resuming normal operations
[Sun Apr 14 00:18:06.214816 2024] [core:notice] [pid 2095:tid 140460724029312] AH00094:
 '/usr/sbin/apache2'
webmaster@webserver:~$
```