

Final Project Deliverable 2

- What are the server hardware specifications (virtual machine settings)? Take a screenshot - don't type it!
 - Screenshot is saved on Blackboard submission page
- What is Ubuntu server log in screen? Take screenshot - do not type it!
 - Screenshot is saved on Blackboard submission page
- What is the IP address of your Ubuntu Server Virtual Machine?
 - Ipv4 address for enp0s3: 192.168.12.242
- How do you enable the Ubuntu Firewall?
 - use command `sudo ufw enable`
- How do you check if the Ubuntu Firewall is running?
 - use command `sudo ufw status`
- How do you disable the Ubuntu Firewall?
 - use command `sudo ufw disable`
- How do you add Apache to the Firewall?
 - an update must be done to the system
 - enable the firewall: `sudo ufw enable`
- What is the command you used to install Apache?
 - install apache: `sudo apt install apache2 -y`
- What is the command you use to check if Apache is running?
 - `systemctl status apache2 --no-pager`
- What is the command you use to stop Apache?
 - `sudo systemctl stop apache2`
- What is the command you use to restart Apache?
 - `sudo systemctl restart apache2`
- What is the command used to test Apache configuration?
 - `sudo ufw allow 'Apache'`
- What is the command used to check the installed version of Apache?

- `sudo apache2 -v`
- What are the most common commands to troubleshoot Apache errors? Provide a brief description of each command.
 - `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.
 - any error tht is received in a browser or other HTTP client will have a corresponding entry in Apache's logs. Apache will also output errors related to configuration, built-in modules, and other debugging information to its log files
 - `/var/log/httpd/error_log`
 - `sudo tail -n 2 /var/log/apache2/error.log`
 - `/var/log/apache2/error.log`
 - `/var/log/apache2/access.log`