Lab - Using Log Files in Linux

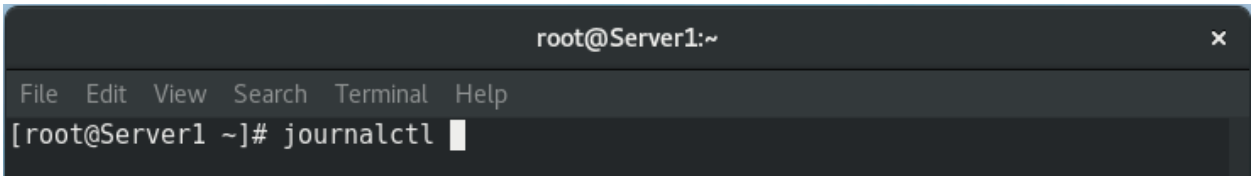
Overview

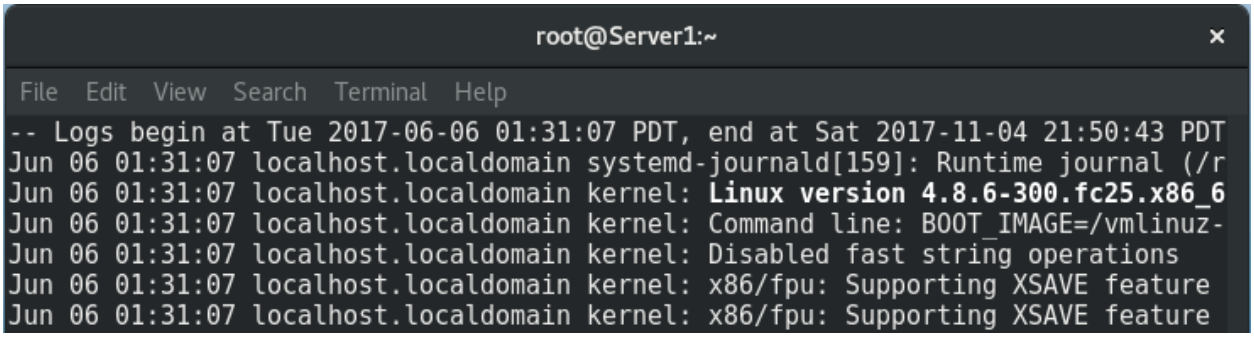
In this lab, you will learn to troubleshoot errors in a Linux system using the log files. The **Journald** is the new system for managing logs. We can use **journald** to view and determine when a service failed to start.

Requirements:

- Log in to the server VM operating system as root
- Open a terminal shell.

Type: **journalctl** (to view every log entry in the system)

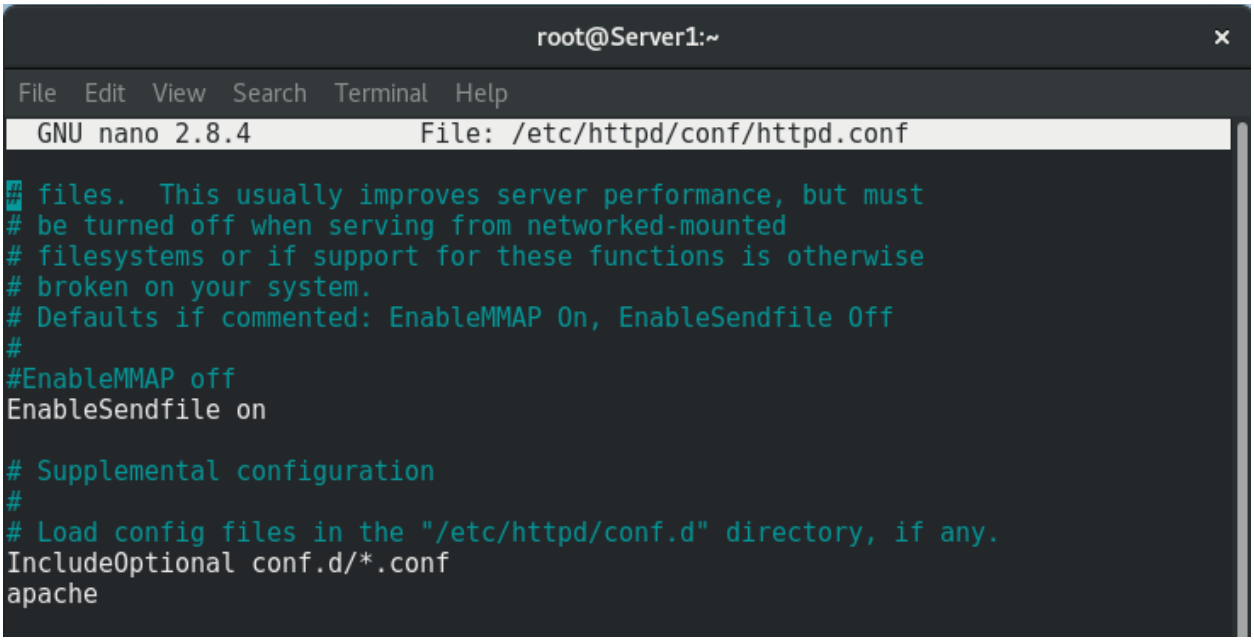




Type: `nano /etc/httpd/conf/httpd.conf`

`Tip: Use your page down key to scroll through the file one page at a time until you reach the bottom.`

Type: Hit the **End** key on the keyboard and type any word (**apache**) at the bottom of the file.

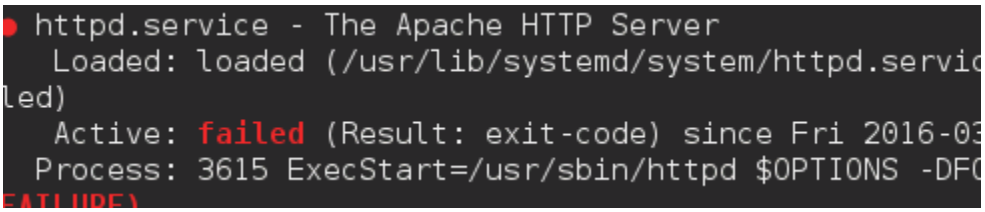


Type: Ctrl + X to Exit. Type 'y' to save the changes. Hit enter to close the editor.

Type: **systemctl stop httpd** (stops the Apache server)

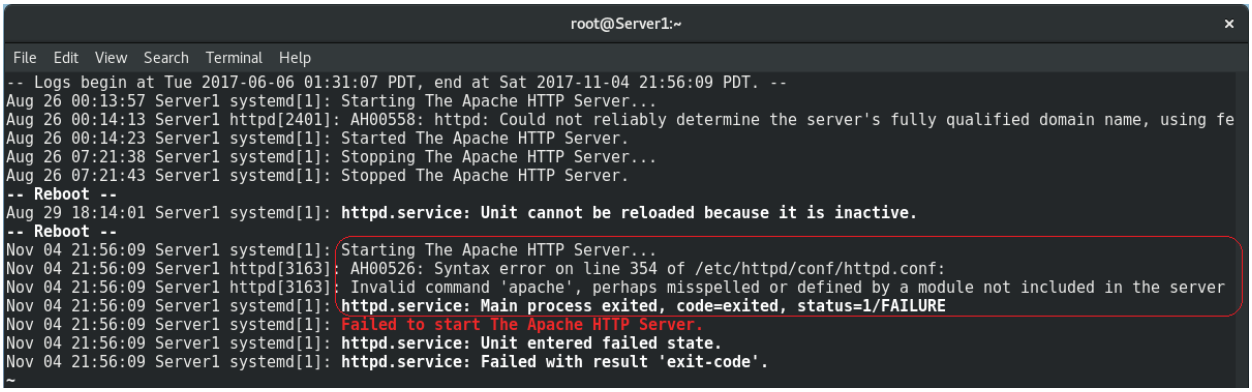
Type: **systemctl start httpd** (attempts to start the Apache Server)

Type: **systemctl status httpd** (See that the Apache did not start)



Type: **journalctl -u httpd** and hit the **End key** on the keyboard**.**

(View error messages generated by the Apache server & see that it tell you there is an error on line 354 in the configuration file)

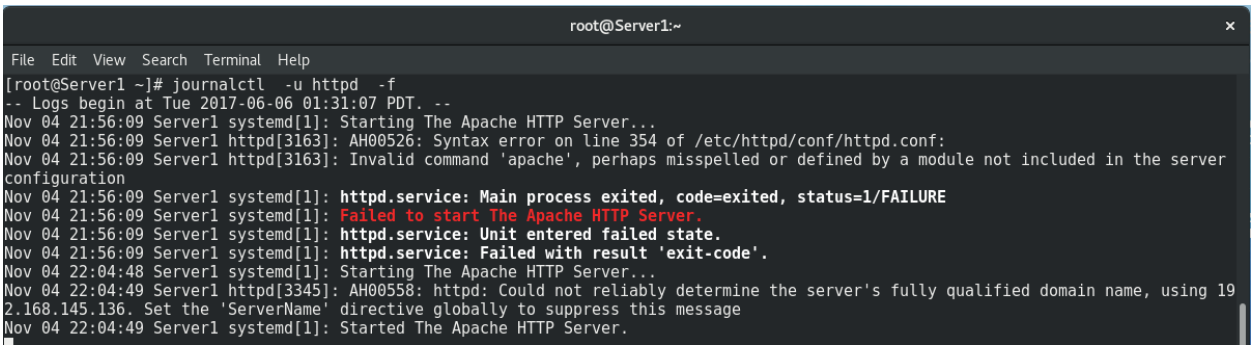


Type the letter **q** or Ctrl+c on the keyboard to return to the CLI.

Go back and remove the word added to the `/etc/httpd/conf/httpd.conf` **file** and re-save the file (Steps 5-7).

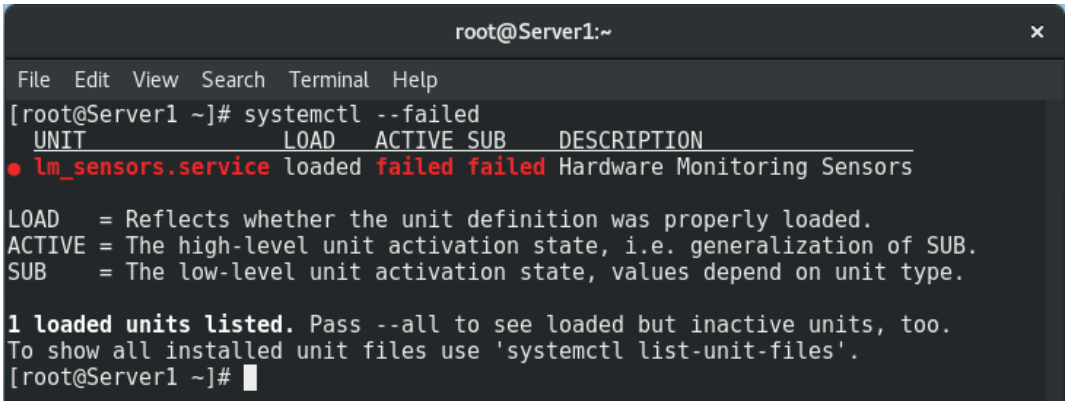
Type: **clear** on the terminal window.

Type: **journalctl -u httpd -f**



(to go to the bottom of the journal log)

Type: **systemctl --failed** (to see any failed (for each service that failed above)

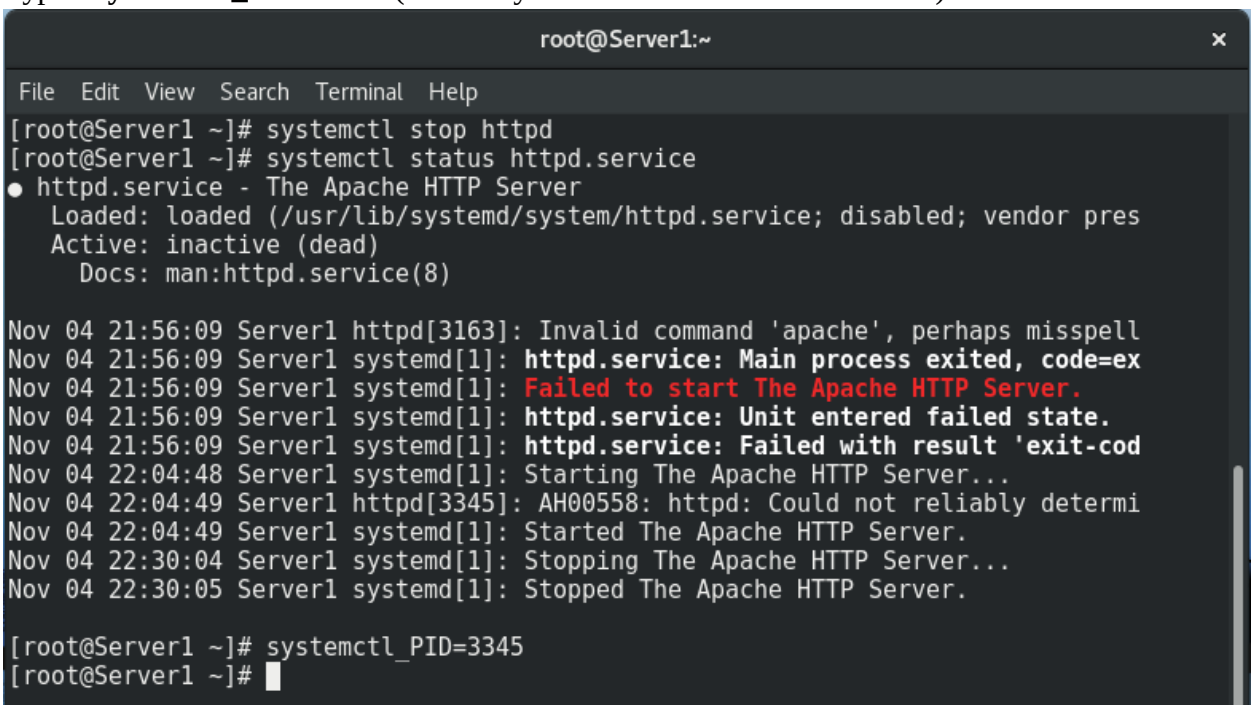


Stop the httpd using the systemctl command.

To see any errors related to the process ID of a failed service, we can use the run the

`Systemctl status httpd.service to capture the process id.`

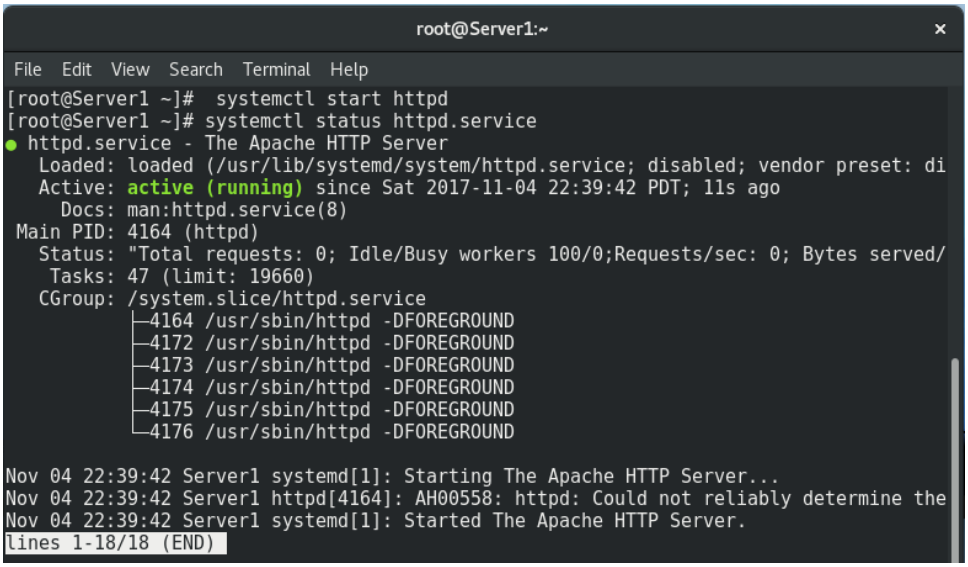
Type: **systemctl _PID=3615** (to see any errors related to the Process ID)



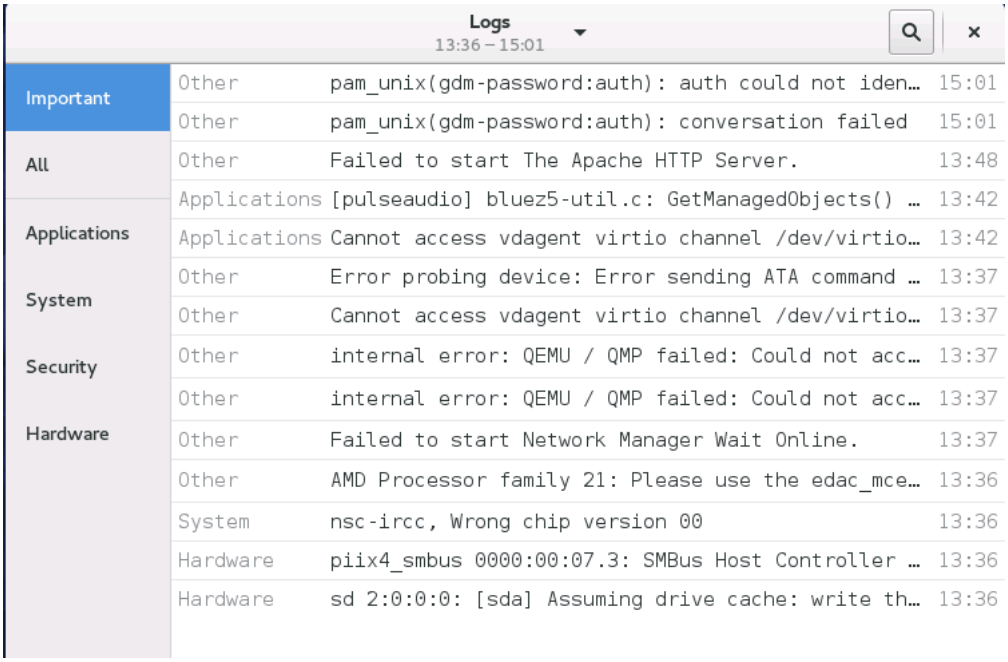
Go to the **httpd.conf** file and remove /fix the error.

Retry to start the. **systemctl start httpd**

Check the status of the service to see if it starts correctly. **systemctl status httpd**



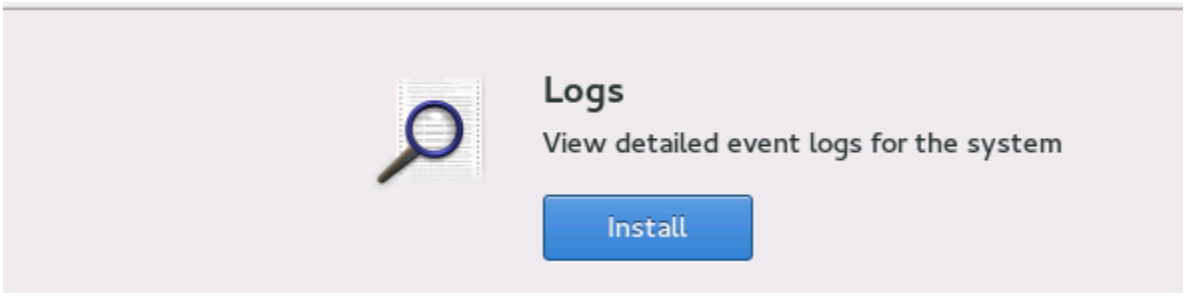
There is a GUI interface for the Logs utility in Linux.



It must be installed to use – minimize any open windows.

Click on **Activities** and enter to word **logs** in the search window**.**

Click on the icon for Logs and if it says Install, click the install button.



End of the lab!