**Lab\_04C**

**Description**: This lab will demonstrate the installation of ssh and vsftp in Linux.

Perform the following activities on the specified virtual machines.  Record your commands and answer any questions in the lab activities.

**Part 1) Ubuntu 18.04.1 Server  
Part 2) Fedora 28-1.1 Server**

PROCEDURE: Use the book and the appropriate man pages to form commands to complete the following tasks.  (Tip: You will need to work with root privileges to perform these commands.)

RESOURCES: [ssh and ftp Resources](https://canvas.highline.edu/courses/1862999/pages/ssh-and-ftp-resources)

**Part 1)**

On Ubuntu Server 18.04.1:

**Install and Enable SSH Server**

sudo apt update

sudo apt upgrade

apt install openssh-server

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Description automatically generated

**Create a Self-Signed SSL Certificate**

sudo openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/ssl/private/apache-selfsigned.key -out /etc/ssl/certs/apache-selfsigned.crt

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**Open an SSH session**

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**Install and Enable a Self-Signed SSL Certificate in Apache**

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default-ssl.conf

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ssl-params-conf

**Navigate to https://<server-ip>/**

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**Install and Configure vsftpd**

A screenshot of a computer

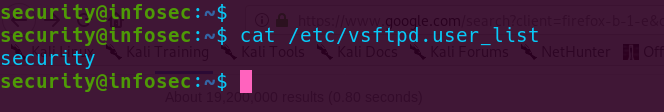
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**Enable a Self-Signed SSL Certificate in vsftpd­**

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Contents of /etc/vsftpd.conf



User that has allowed ftp login

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**Resources**:

https://linuxpropaganda.wordpress.com/2018/07/06/enable-ssl-for-apache2-in-ubuntu-server-18-04/

<https://www.digitalocean.com/community/tutorials/how-to-create-a-self-signed-ssl-certificate-for-apache-in-ubuntu-18-04>

<https://linuxize.com/post/how-to-setup-ftp-server-with-vsftpd-on-ubuntu-18-04/>

https://linuxhint.com/enable\_ssh\_server\_ubuntu\_1804/

**Part 2)**

**On Fedora Server 28.1-1:**

**Install and Enable SSH Server**

sudo dnf install openssh-server

sudo systemctl enable sshd

sudo systemctl start sshd

sudo ss -lt

sudo firewall-cmd --add-service=ssh --permanent

sudo firewall-cmd --reload

**Create a Self-Signed SSL Certificate**

dnf install crypto-utils

dnf install mod\_ssl -y

firewall-cmd --add-service=http

firewall-cmd --add-service=https

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**Open an SSH session with SERVER**

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**Install and Enable a Self-Signed SSL Certificate in Apache**

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Contents of ssl.conf

**Navigate to https://<server-ip>/**

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**Install and Configure vsftpd**

dnf install -y vsftpd

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Description automatically generated

**Generate and enable a Self-Signed SSL Certificate in vsftpd**

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Description automatically generated

**Connect to server through SFTP**

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Description automatically generated

**Resources:**

<https://linuxconfig.org/how-to-install-start-and-connect-to-ssh-server-on-fedora-linux>

<https://www.hiroom2.com/2018/06/28/fedora-28-openssh-server-en/>

<https://fedoraproject.org/wiki/Https#openssl>

<https://docs.fedoraproject.org/en-US/quick-docs/getting-started-with-apache-http-server/index.html#using-mod-ssl>