

Fall Bootcamp Services HW Lab

Common Services + Q&A Week

Initial Set Up

- Connect to the [Global Protect VPN](#)
- Navigate to [kamino.sdc.cpp](#) or [gonk.sdc.cpp](#) and expand the pod that we used for Fall Homework 1 (NOT the one for Homework 2!!)

Lab

Complete the following tasks on the environment

1. Set up Active Directory
 - a. Make the Windows Server a Domain Controller
 - b. Join the Linux VM to the domain you made
 - c. Add at least 3 domain users
2. Set up Remote Access methods
 - a. Install xfreerdp on the Linux VM
 - b. Confirm that you can SSH into Debian from Windows
 - c. Confirm that you can RDP into Windows from Debian
 - d. Configure both services to only allow 1 of the users you made
3. Set up File Shares
 - a. Install vsftpd on Linux and ftp on Windows
 - i. Create a file in the FTP root of both servers
 - ii. Access both FTP servers from the other machine
 - iii. Configure both services to only allow 1 of the users you made
 - b. Create a folder (SMB share) and share it to the network
 - i. Place a simple text file in it
 - ii. Ensure only 1 of the users you made can access this from the Linux VM

4. Set up a Database
 - a. Install mariadb on the Linux VM
 - b. Create a database (leave it empty for now)
 - c. Create a user (should only be accessible by the Windows VM) and grant it ALL permissions
 - d. Ensure the Windows VM can access the database with that user
5. Set up a Wordpress Website on the Windows VM
 - a. Install XAMPP from [apachefriends](http://apachefriends.org) site
 - i. In the wizard, uncheck FileZilla, Mercury, and Tomcat
 - b. Install Wordpress from wordpress.org
 - i. Extract to C:\xampp\htdocs\wordpress
 - ii. Point the config file to your database, user, and password on the Linux VM
 - iii. Start your site and go through the initial configuration steps.
 1. Make sure you end up with a "Welcome to Wordpress" Dashboard!
 - iv. Confirm the database on the Linux VM is populated with wordpress stuff
6. **BONUS:** Configure firewall rules for all of the services via Windows Defender Firewall and iptables
 - a. Adjust the rules you created for Homework 1 as needed

Question

For each type of service (remote access, file share, database, and web), list ways to secure the service.

Deliverables

In a single PDF:

1. Documentation of how you completed the lab tasks
2. List of how to secure the types of services