**Project Portfolio Management**

**Weekly Project Time Sheet**

**Student Name:** Jacob Brown

**Project Name:** Locked LAMP

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| **Activity** | **Task Description** | **Start Time** | **End Time** | **Total Time** | **Date** |
| **Communicate with Digital Ocean** | | | | | |
| 1.2.1.1.  Create Basic Ansible Playbook | Created a playbook YAML file to Identified the Digital Ocean and Droplets hosts. Identified the variables and the remote user name of “root.” | 0800 | 0815 | .25 hr | July 13, 2021 |
| 1.2.1.2.  Upload SSH Keys | Used the Digital Ocean (DO) API token to transfer the CentOS Virtual Machine’s (VM) public key to DO for creating the droplets. | 0815 | 0830 | .25 hr | July 13, 2021 |
| 1.2.1.3.  Create Droplet | Using the DO API token, I created two CentOS 8 droplets with 1 core, 1 GB memory, and 25GB of storage in the New York 1 region. | 0830 | 0845 | .25 hr | July 13, 2021 |
| 1.2.1.4.  Add Droplet Public IP Address to Memory | Added the newly created droplet public IP addresses to memory to execute the “hosts: droplet” integrated playbook. | 0845 | 0900 | .25 hr | July 13, 2021 |
| **DISA STIGs Playbook** | | | | | |
| 1.2.2.1.  Update and Upgrade OS | This task takes over six minutes to perform with an overall run time of 15 minutes. So that is the minimum length of the client presentation. | 0900 | 0915 | .25 hr | July 13, 2021 |
| **Install Packages** | | | | | |
| 1.2.2.2.1.  Install EPEL RPM | This step is needed for the install of the REMI RPM. This task can be removed when EPEL has PHP version 7.4. | 0915 | 0930 | .25 hr | July 13, 2021 |
| 1.2.2.2.2.  Install REMI RPM | The REMI RPM is need for the current 7.4 version of PHP. This task can be removed when EPEL has PHP version 7.4. | 0930 | 0945 | .25 hr | July 13, 2021 |
| 1.2.2.2.3.  Install PHP 7.4 | This is a dependency of both Apache version 2.4 and MariaDB version 10.3. | 0945 | 1000 | .25 hr | July 13, 2021 |
| 1.2.2.2.4.  Install MariaDB 10.3 | The most current version of MariaDB for Rapid Digital Marketing webservers. | 1000 | 1015 | .25 hr | July 13, 2021 |
| 1.2.2.2.5.  Install Apache 2.4 | The most current version of Apache for Rapid Digital Marketing webservers. | 1015 | 1030 | .25 hr | July 13, 2021 |
| 1.2.2.2.6.  Install php-mysqlnd | PHP and SQL dependency. | 1045 | 1045 | .25 hr | July 13, 2021 |
| 1.2.2.2.7.  Install php-fpm | PHP and SQL dependency. | 1100 | 1100 | .25 hr | July 13, 2021 |
| 1.2.2.2.8.  Install git | Required for CI/CD pulls/clone | 1200 | 1200 | .25 hr | July 13, 2021 |
| 1.2.2.2.9.  Install Firewalld | Ensure the firewall is there and current. The OS firewall is often not installed with some cloud providers. | 1215 | 1215 | .25 hr | July 13, 2021 |
| 1.2.2.2.10.  Install pymysql with pip | Required for MariaDB, but it is installed using pip and not the standard CentOS 8 package manager. | 1030 | 1230 | .25 hr | July 13, 2021 |
| **MariaDB** | | | | | |
| 1.2.2.3.1.  Start MariaDB Service | Start MariaDB service and enabled it on restart. | 1230 | 1245 | .25 hr | July 13, 2021 |
| 1.2.2.3.2.  Create Root Password | The “root” password is blank by default. This step gives the password defined in the variable (vars:) section of the playbook. | 1245 | 1300 | .25 hr | July 13, 2021 |
| 1.2.2.3.3.  Remove Anonymous DB Users | Anonymous users are often added by default but are a security risk that must be removed. | 1300 | 1315 | .25 hr | July 13, 2021 |
| 1.2.2.3.4.  Remove Test Databases | Test databases are often added by default but are a security risk that must be removed. | 1315 | 1330 | .25 hr | July 13, 2021 |
| **Configure Firewall Ports** | | | | | |
| 1.2.2.4.1.  Start Firewall Service | Start the firewall service and enable it on restart. | 1330 | 1345 | .25 hr | July 13, 2021 |
| 1.2.2.4.2.  Open Port 80 for HTTP | Open port 80 for HTTP web traffic. | 1345 | 1400 | .25 hr | July 13, 2021 |
| 1.2.2.4.3.  Open Port 22 for SSH | Open port 22 for SSH access | 1400 | 1415 | .25 hr | July 13, 2021 |
| **Apache** | | | | | |
| 1.2.2.5.1.  Start Apache | Start the Apache service and enable it on restart | 1415 | 1430 | .25 hr | July 13, 2021 |
| **Configure Cat 1 STIGs** | | | | | |
| 1.2.2.6.1.  Enforce Local Packages Certificate Signature  ID: V-230265 | Checks the locally installed packages certificates for validity before using. | 1430 | 1445 | .25 hr | July 13, 2021 |
| 1.2.2.6.2.  Remove All “shosts.equiv” files  ID: V-230283 | The “shosts.equiv” is used for SSH authentication but does not require interactive identification and authentication of a connection request. Two parts in script find and remove. | 1445 | 1500 | .25 hr | July 13, 2021 |
| 1.2.2.6.3.  Remove All “.shosts” files  ID: V-230284 | The “.shosts” is also used for SSH authentication but does not require interactive identification and authentication of a connection request. Two parts in script find and remove. | 1500 | 0800 | .25 hr | July 13, 2021 |
| 1.2.2.6.4.  Remove Telnet-Server Packages  ID: V-230487 | Not installed by default; however, it could be added to the base image by a cloud provider. | 0800 | 0815 | .25 hr | July 14, 2021 |
| 1.2.2.6.5.  Remove RSH-Server Package  ID: V-230492 | Not installed by default; however, it could be added to the base image by a cloud provider. | 0815 | 0830 | .25 hr | July 14, 2021 |
| 1.2.2.6.6.  Block “ctrl-alt-del” Reboot  ID: V-230529 | From the Command Line Interface (CLI), you can reboot a server using “ctrl-alt-del” and then access safe mode with administrator access. | 0830 | 0845 | .25 hr | July 14, 2021 |
| 1.2.2.6.7.  Block “ctrl-alt-del” Burst Reboot  ID: V-230531 | From the CLI, you can reboot a server using “ctrl-alt-del” seven times in two seconds and then access safe mode with administrator access. | 0845 | 0900 | .25 hr | July 14, 2021 |
| 1.2.2.6.8.  Remove TFTP server  ID: V-230533 | The Trivial File Transfer Protocol (TFTP) can transmit files to and from a remote server; however, there are no login or access control measures for the protocol. | 0900 | 0915 | .25 hr | July 14, 2021 |
| 1.2.2.6.9.  Remove FTP server  ID: V-230558 | The File Transfer Protocol (FTP) is used to transmit files to and from remote servers. It does have a username and password for authentication; however, it transmits all data without encrypting it. | 0915 | 0930 | .25 hr | July 14, 2021 |
| **Configure Cat 2 STIGs** | | | | | |
| 1.2.2.7.1.  Install rsyslog Remote System Log  ID: V-230228 | This is a remote system log that logs the security events and can be configured to send the security and system logs to a remote server. | 0930 | 0945 | .25 hr | July 14, 2021 |
| 1.2.2.7.2.  Encrypt All Stored Passwords  ID: V-230231 | Ensures all passwords are encrypted with SHA512. | 0945 | 1000 | .25 hr | July 14, 2021 |
| 1.2.2.7.3.  Valid Root Authentication for Rescue/Emergency Mode  ID: V-230236 | Request authentication for accessing the safe or recovery mode. | 1000 | 1015 | .25 hr | July 14, 2021 |
| 1.2.2.7.4.  Enable and Enforce Secure Enhanced Linux (SELinux)  ID: V-230240 | SELinux isolates permissions for a process. Here we allowed Apache to edit all the subdirectories in the /var/www/html and serve web content. | 1015 | 1030 | .25 hr | July 14, 2021 |
| 1.2.2.7.5.  SSH Connection Timeout  ID: V-230244 | We programmed to terminate the SSH connection after 10 minutes and only one connection to the server at a time. | 1030 | 1045 | .25 hr | July 14, 2021 |
| 1.2.2.7.6.  Force The Use of TLSv1.2  ID: V-230255 | The encryption most trusted is the Transport Layer Security (TLS) version 1.2 or higher. All previous encryption versions have been deemed insecure. | 1045 | 1100 | .25 hr | July 14, 2021 |
| 1.2.2.7.7.  Change System Commands Permissions  ID: V-230257 | This blocks the ability of groups and other users from modifying the system commands. Root only edit. | 1200 | 1215 | .25 hr | July 14, 2021 |
| 1.2.2.7.8.  Change System Commands Owner  ID: V-230258 | This changes the owner to root. | 1215 | 1230 | .25 hr | July 14, 2021 |
| 1.2.2.7.9.  Change System Commands Group  ID: V-230259 | This changes the group to root. | 1230 | 1245 | .25 hr | July 14, 2021 |
| 1.2.2.7.10.  Change Library File Permissions  ID: V-230260 | This blocks the ability of groups and other users from modifying the system library. Root only edit. | 1245 | 1300 | .25 hr | July 14, 2021 |
| 1.2.2.7.11.  Change Library File Owner  ID: V-230261 | This changes the owner to root. | 1300 | 1315 | .25 hr | July 14, 2021 |
| 1.2.2.7.12.  Change Library File Group  ID: V-230262 | This changes the owner to root. | 1315 | 1330 | .25 hr | July 14, 2021 |
| **Project Administration** | | | | | |
| 1.2.3.1.  Status Report Upload | Listed the task completed this milestone and set the list of tasks to accomplish for the next milestone. | 0800 | 0900 | 1 hr | July 16, 2021 |
| 1.2.3.2.  Time Sheet Upload | Listed out the tasks with details of the task need or use. | 0900 | 1100 | 2 hrs | July 16, 2021 |
| 1.2.3.3.  Prep Gantt Chart Upload | Added the task numbers and activities with people assigned to work the tasks. Added start and completion dates with their dependencies. | 1200 | 1500 | 3 hrs | July 16, 2021 |
| 1.2.3.4.  Ansible Script Upload | Created the Ansible script and prepped it for upload to FSO. | 1500 | 1600 | 1 hr | July 16, 2021 |
|  | **Total hours:** |  |  | 18 hrs |  |

**Instructions:** Document the length of time (hours) it takes you to complete each activity you work on, and tally the total hours at the bottom. Submit the time sheet to your instructor by end-of-day of every Friday of the week.