ISEC2700 – Introduction to information security practices

Install / Change Log

Date \_\_\_\_\_\_\_\_\_\_09/24/24\_\_\_\_\_\_\_\_\_

Name \_\_\_\_\_\_\_\_\_\_\_ Pod 5-6\_\_\_\_\_\_\_\_\_\_

W#\_\_\_\_\_\_\_\_\_\_\_\_0263439\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Install Log** | | | | | |
| **Project:** Ubuntu Web Server | | | | | **Date:** 09/24/24 |
| **Activity ID No.** | **Activity Name** | **Description of Work** | | | **Responsibility** |
| A001 | Documentation required for install and configuration. | [Ubuntu CLI Cheatsheet](https://ubuntu.com/download/server/thank-you?version=24.04.1&architecture=amd64&lts=true)  Naming Convention Document v1.3.24  ISEC2700\_Assign 2 v9.17.24 | | |  |
| A002 | Resources required for install. | Ubuntu Server 24.04.1 LTS  (ubuntu-24.04.1-live-server-amd64.iso) | | |  |
| A003 | Documentation of object names required for implementation. | **Specify object names in preparation for implementation** | | |  |
| **VM** Folder: | E:\2024 Semester 3\ISEC2700\ISEC2700-WB01 | |
| **VM** Name: | ISEC2700-WS01 | |
| **VM** OS (selected during VM build): | Ubuntu Server | |
| **System** Hardware Configuration: | Primary HD | 60GB |
| Additional HDs |  |
| RAM | 4GB |
| Processors/Cores | 2 / 1 |
| Network | IP Address (Static/DHCP) | DHCP  (192.168.208.132) |
| Subnet Mask |  |
| G/W Address |  |
| DNS Server Addresses (2) | *Primary*  *Secondary* |
| Installation Mode | New Installation | |
| Time Zone: | AST | |
| Server Type | Web Server | |
| **Server** “Administrator” Password: | Sysop\_pod5  Passw0rd | |
| **Server** Host Name: | WS01C1U30 | |
| Domain Name: | isec2700.pod5.ca | |
| **Additional** User: | Only if required. | |
| Additional User Password: | Only if required. | |
| DSRM Password: | Only if required. | |
|  | | |
| *Name and description of each snapshot to be taken during install.*  *Create a schedule of regular rollback points of the server and take regular snapshots of your server in shutdown state.* |  | |
| A004 | Required configurations or settings applied during initial install. | Accept all defaults during installation, except to enable DHCP. Do not proceed without a network. | | |  |
| A005 | “Backup” information: Regular rollback points, snapshots, etc. | Snapshots to be taken before and after each assignment following the “PostA1”, “PreA1” naming conventions. | | |  |
| A006 | “Gold” Copy information: Rollback or restore options for the system. | Backups located at E:\2024 Semester 3\ISEC2700\GoldCopies | | |  |
| A007 | Install OpenSSH Server | Do not add any additional snap-ins, do not import an SSH identity, leave as default. | | |  |
| A008 | Update Time Zone | Use command “timedatectl1” to set time zone to Halifax (AST) | | |  |

**Change Log**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Change No.** | **Change Type** | **Description of Change** | **Date Completed** | **Status** | **Comments / Troubleshooting notes** |
| CR001 | Timezone Configuration | “timedatectl set-timezone “America/Halifax” | 09/24/24 | Completed | Confirmed via standalone “timedatectl” command, showing Halifax. |
| CR002 | IP Configuration | “ip addr show && ip route show” | 09/24/24 | Completed |  |
| CR003 | Apache Daemon Installation | Installed Web Server via “tasksel” | 09/24/24 | Completed | “sudo apt install tasksel”  “sudo tasksel”  Selected Web Server from list, installed |
| CR004 | PHP Installation | “sudo apt install php php-cli”  “sudo apt install libapache2-mod-php”  “sudo systemctl restart apache2” | 09/24/24 | Completed | Installs both PHP, PHP Command Line and PHP libraries, followed by a restart of the Apache service. |
| CR005 | Enable SSH | “sudo systemctl status ssh” | 09/24/24 | Complete | SSH is usually enabled and active by default, if it is not (dead), enable it with this command. |
| CR006 | Server Hardening | Added lines to /etc/apache2/apache2.conf | 09/24/24 | Complete | Added:  “TraceEnable off  ServerTokens Prod  ServerSignature Off  <IfModule mod\_headers.c> (underscore between mod and headers)  Header unset Server  Header unset X-powered-By  </IfModule> |
| CR007 | Added User and Group | Created group “apachegroup” with user “apacheuser” | 09/24/24 | Complete | Added said group and user to /etc/apache2/envvars under “APACHE\_RUN\_USER” and “…GROUP” respectively. |
| CR008 | Users Added, SSH Permissions Modified | Added user “test” and “remotetest”, edited /etc/ssh/ssh\_config permissions | 09/24/24 | Complete | Added default user (sysop\_pod5) and “remoteuser” to AllowUsers line,  Added “test” user to DenyUsers line  (both new users passwords are “student@2024”) |

A screenshot of a computer

Description automatically generated*Gold Copy Properties*

**Testing Plan**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Project (Activity) for testing:** | | Ubuntu Web Server | | |  |  |  |
| **Date:** |  | 09/24/24 | |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Test ID** | **Description** | **Action** | **Expected result** | **Tech** | **Status** | **Repeat test** | **Notes:** |
| A001 | Test Apache Installation | Enter “apachectl -v” | The correct version of Apache should be displayed | KW | Complete | 1 | Current Version Installed |
| A002 | Test Network Connectivity | Ping “8.8.8.8” | All pings should return | KW | Complete | 1 | Network connectivity established |
| A003 | Confirm server configuration | Use command “hostname” and command “ip” | Hostname should match documentation as well as network settings | KW | Complete | 1 | System configured as per install log |