**EQUIPMENT TEST PLAN**

**Wireshark - Windows 2022 AD Server**

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| Project Title: | **AWS CyberShift Initiative** |  | Date Prepared: | 23rd of June, 2023 |

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| **Overall project scope and objectives** |
| The AWS CyberShift Initiative project will secure OzCazual's cloud infrastructure and enable a safe and secure migration from their existing local server to Amazon AWS.  The primary goal is to address the sudden 200% increase in online sales and staff, create a scalable infrastructure that can meet future business demands, and ensure the confidentiality, integrity, and availability of the systems and customer data.  The project will Implementing various security controls, and upgrade the systems and tools currently used at OzCazual |
| **Test objectives and success criteria** |
| The objective of this unit test plan is to verify the successful installation of Wireshark on a Windows Active Directory (AD) Server 2022. |
| **Test resources required (people, hardware, software, test tools)** |
| The test environment should consist of the following:   * Windows AD Server 2022 * Wireshark installer for Windows * Test user account with administrative privileges * Virtual or physical machine for conducting the tests  Table - Software Version to Be Tested  |  |  | | --- | --- | | **Wireshark Version** | **Description** | | **Version 4.0.6** | Running on 64-bit Windows Server 2022 |  Table - People, Roles, and Time Allocation  |  |  |  | | --- | --- | --- | | **Role** | **Name** | **Resource Allocation** | | *Program Manager* | *Pep* | *As required* | | *Test Lead* | *Mark Byrne* | *100%* | |
| **Test schedule** |
| *The below test schedule outlines the key milestones to successfully complete the Wireshark unit test:*  **Table 4-5. Test Schedule**   |  |  |  | | --- | --- | --- | | **Date** | **Milestones** | **Resource Allocation** | | *26/6/2023* | *Test Plan Start* | *High-level test case review with customer and account team* | | *26/6/2023* | *Test Plan—Review & Approval* | *Test Plan document review with customer and account team* | | *27/6/2023* | *Test Start* | *Dependent on test entrance criteria documented in EC* | | *27/6/2023* | *Test Complete* | *Completion of all test cases* | | *27/6/2023* | *Test Result Report Complete* | *Final test results report complete* | |
| **Test Scenario** |
| *The below test scenario is a unit test to confirm the successful installation and operation of Wireshark on a Windows 2022 AD server*   |  |  | | --- | --- | | **Test ID:** | Test 001 | | **Node List:** | N/A | | **Test Description:** |  | | **Test Phase:** | Baseline test | | **Test Steps:** | | | **Installation Process**:   * Verify that the installer is compatible with Windows AD Server 2022. * Execute the installer with administrative privileges. * Confirm that the installation process completes without any errors or warnings. * Check that Wireshark shortcuts are created in the Start menu and desktop.   **Application Launch:**   * Launch Wireshark from the Start menu or desktop shortcut. * Ensure that Wireshark opens without any issues and displays the main interface. * Verify that all menu options and toolbar buttons are functional. * Confirm that the application does not crash or produce any error messages.   **Capture and Analysis:**   * Select a network interface from the available options within Wireshark. * Start a capture and confirm that Wireshark is able to capture network traffic. * Analyze the captured packets by applying filters, sorting, and examining protocol details. * Validate that Wireshark accurately interprets and decodes network protocols.   **File Export:**   * Export captured packets to a file using the desired file format (e.g., PCAP, CSV). * Verify that the exported file is generated successfully and contains the captured data. * Attempt to open the exported file using Wireshark or other compatible tools to ensure it is readable and usable.   **Error Handling:**   * Introduce specific error scenarios during the installation process, such as insufficient disk space or interrupted installation. * Verify that appropriate error messages are displayed, guiding the user on how to resolve the issue. * Test error handling in scenarios like capturing packets on unsupported network interfaces or encountering corrupted capture files. | | | **Expected Results:** | | | * Confirm that the installation process completes without any errors or warnings. * Confirm that the application does not crash or produce any error messages. * Validate that Wireshark accurately interprets and decodes network protocols. * Verify that the exported file is generated successfully and contains the captured data. * Verify that appropriate error messages are displayed, guiding the user on how to resolve the issue. | | | **Observed Results:** | | | * Confirm that the installation process completes without any errors or warnings.      * Confirm that the application does not crash or produce any error messages.      * Validate that Wireshark accurately interprets and decodes network protocols.      * Verify that the exported file is generated successfully and contains the captured data.      * Verify that appropriate error messages are displayed, guiding the user on how to resolve the issue.   Not tested. | | | **Pass/Fail:** | **Pass** | |