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| VAPT Report – {{ conn.info.name }}  Vulnerability Assessment | |
| 31 October 2022 | Document Version 0.02 | |
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Contribution (C) and distribution (D) list

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# About This Design Document

## Document Purpose

The purpose of this document is to provide in detail the recommended findings and remediations for the network. This document provides details on the findings and remediations that can be implemented to have a better overall security posture.

## Intended Audience

The intended audience of this document are {{ conn.info.name }} / Dimension Data technical staff who will be implementing and operating the new network.

## Document Usage Guidelines

The document should be used as a guideline for deriving the necessary information to ultimately remediate the findings that were discovered during the external assessment.

* This document comprises the following components: -
* In Scope URL’s
* Findings
* Remediations
* Vulnerability References
* Evidence

# Executive Summary

## Introduction

We have the pleasure of presenting the main findings on our security review of as enumerated and documented in the monthly scope. We also want to express our appreciation to for the support given by the respective staff during this review.

## Scope

The following IP addresses were in scope for the vulnerability Assessment:

|  |  |
| --- | --- |
| IPs | {{ conn.info.targets }} |

## **Risk Summary**

{{risk\_summary}}

## **Risk Break down**

{{ risk\_breakdown }}

## **Host Breakdown**

{{host\_risk\_summary}}

## **Common Vulnerabilities**

{{ name\_synopsis }}

## **Critical Vulnerabilities**

{{critical\_synopsis}}

## Risk Rating Matrix

Risks are classified as Critical, High, Moderate or Low as per the matrix defined below.

| Rating | Description |
| --- | --- |
| Critical | Loss of [confidentiality | integrity | availability] is proven and is currently being exploited in the wild.  Countermeasures recommended to mitigate these risks should be implemented as soon as possible and the environment should be reviewed for any signs of  compromise. |
| High | Loss of [confidentiality | integrity | availability] is likely to have a serious adverse effect on the organization or individuals associated with the organization (e.g.,  employees, customers).  Countermeasures recommended to mitigate these risks should be implemented as soon as possible |
| Medium | Loss of [confidentiality | integrity | availability] is likely to have a moderately adverse effect on the organization or individuals associated with the organization (e.g.,  employees, customers).  Countermeasure implementation should be planned for the near future |
| Low | Loss of [confidentiality | integrity | availability] is likely to have only a limited to little adverse effect on the organization or individuals associated with the organization (e.g., employees, customers).  Countermeasure implementation will enhance security and  is of less urgency than the above risks. |

Table 1: Risk Rating Matrix

## Vulnerability Assessment Review

### Vulnerability Assessment Summary Findings

This section details the summary findings of the vulnerability Assessment conducted on the IPs in scope.

**NB: The detailed findings have been shared as an addendum to this report. It serves as the remediation tracker**

### Vulnerability Count

| IP Address | Critical | High | Medium | Low |
| --- | --- | --- | --- | --- |
| {%tr for item, item\_group in conn.hosts|groupby(‘hostname’) %} | | | | |
| {{ item }} | {{ item\_group|sum(attribute='critical') }} | {{ item\_group|sum(attribute='high') }} | {{ item\_group|sum(attribute='medium') }} | {{ item\_group|sum(attribute='low') }} |
| {%tr endfor %} | | | | |
| Total | {{hosts|sum(attribute='critical')}} | {{hosts|sum(attribute='high')}} | {{hosts|sum(attribute='medium')}} | {{hosts|sum(attribute='low')}} |

Table 2: Vulnerability Count Per Host

### Summary of Key Findings

This section defines the Vulnerabilities found as well as their risks.

| Vulnerability | Count | Severity |
| --- | --- | --- |
| {%tr for a in conn.vulnerabilities%} | | |
| {%tr if a. score!= None %} | | |
| {{ a. plugin\_name}} | {{ a.count }} | {% if a.score >= “9.0” %} Critical {% elif a.score >= “7.0” < “9.0” %} High {% elif a.score >= “4.0” < “7.0” %} Medium {% elif a.score >= ”1.0” < “4.0” %} Low {% endif %} |
| {%tr endif %} | | |
| {%tr endfor %} | | |

Table 3: Summary of Key Findings

### Prioritizations

This section indicates which vulnerabilities on which asset poses the greatest risk to {{ conn.info.name }} We recommend that they are addressed first to address the highest risks.

|  |  |  |
| --- | --- | --- |
| {%tr for a in conn.prioritization.plugins%} |  |  |
| **Vulnerability Title** | **{{ a.pluginname }}** | |
| Risk Profile | CVSS3 Score | {{ a.pluginattributes.risk\_information.cvss\_base\_score }} |
|  | {%tr if a.pluginattributes.risk\_information.risk\_factor == ‘High’ %} |
| Risk Factor | {{ a.pluginattributes.risk\_information.risk\_factor }} |
|  | {%tr endif%} |
|  | {%tr if a.pluginattributes.risk\_information.risk\_factor == ‘Critical’ %} |
| Risk Factor | {{ a.pluginattributes.risk\_information.risk\_factor }} |
|  | {%tr endif%} |
|  | {%tr if a.pluginattributes.risk\_information.risk\_factor == ‘Medium’ %} |
| Risk Factor | {{ a.pluginattributes.risk\_information.risk\_factor }} |
|  | {%tr endif%} |
|  | {%tr if a.pluginattributes.risk\_information.risk\_factor == ‘Low’ %} |
| Risk Factor | {{ a.pluginattributes.risk\_information.risk\_factor }} |
|  | {%tr endif%} |
| Exploitability | Ease | {{ a.pluginattributes.vuln\_information.exploitability\_ease }} |
| Exploit Available | {{ a.pluginattributes. vuln\_information.exploit\_available }}  Exploited by malware: **{{ a.pluginattributes.exploited\_by\_malware }}** |
| IP | {% for item in a.hosts %} {{ item.hostname }} {% endfor %} | |
| Synopsis | {{ a.pluginattributes.synopsis }} | |
| Solution | {{ a.pluginattributes.solution }} | |
| Reference | CVE | {{ a.pluginattributes.cvss\_score\_source }} |
| Links | {% for url in a.pluginattributes.see\_also %} {{ url }} {% endfor %} |
| {%tr endfor %} |  |  |

Table 4: Prioritizations

### Strategic Recommendations

To continuously map out and manage the attack surface, have a patch management process in place to:

* + - 1. Remove unused dependencies, unnecessary features, components, files, and documentation.
      2. Continuously inventory the versions of both client-side and server-side components (e.g., frameworks, libraries) and their dependencies
      3. Monitor for libraries and components that are unmaintained or do not create security patches for older versions. If patching is not possible, consider deploying a virtual patch to monitor, detect, or protect against the discovered issue.
      4. A penetration test should be done when considerable change has been introduced to the system.

1. VAPT Report acceptance

I hereby confirm acceptance and agreement of VAPT Report document for the Internet Banking Penetration Testing and Vulnerability Assessment for and the contents contained within, excluding the exceptions described in the notes below.

Notes:

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should send this signed VAPT Report Acceptance Sheet to ayub.mwangi@dimensiondata.com