

Safe & Secure VAPT

Can there be safe & secure VAPT?

How to conduct VAPT?

How do we get the trust of the organisation?



**Mtutuzeli Buwa, CCSA
CEO, Ndalo Risk Management**

Content

1. Intro - CIA
2. Secure Vulnerability Assessment
3. Penetration testing
4. IRM
5. VAPT Types and Strategies

Introduction

- **Confidentiality:**

Confidentiality refers to limiting information access and disclosure to authorized user and preventing access and disclosure from unauthorized ones.

- **Integrity**

Integrity refers to the credibility of information resources. It ensures that data have not been changed inappropriately either by deliberately or inadvertently malign activity.

- **Authorisation:**

Availability refers to the accessibility of the information resources. It ensures that information must be available to authorized user when they accessed

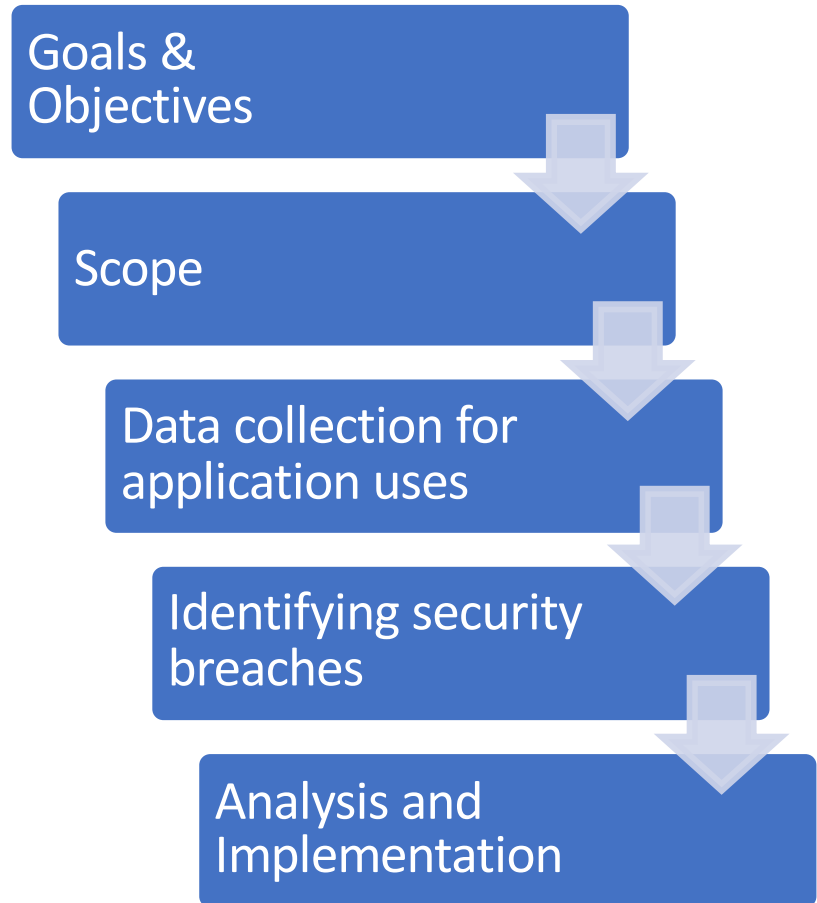


Secure Vulnerability Assessment

- "Vulnerabilities are the doorways via which threats are revealed"
- "**Secure Vulnerability Assessment** is the process of detecting, evaluating and grading the Security vulnerabilities in the system. which threats are revealed"

Steps in Secure Vulnerability Assessments

- Why and What?
- Commerce functions and important system functions – White Box and Black Box Security Assessments
- Data is specifically related to the IT infrastructure
- Needed is security scanning tools and human intelligence to identify breaches
- Data, Code and information analysis and Security measurement implementation



Penetration testing process

Step 1

- Scope Test Plan

Step 2

- Detect Security Issues

Step 3

- Execute a Security Breach

Step 4

- Search for required file

Step 5

- Recommend remedial action



Integrated Risk Management

- Gartner defines IRM as... “a set of practices and processes supported by a risk-aware culture and enabling technologies that improve decision making and performance through an integrated view of how well an organization manages its unique set of risks.”

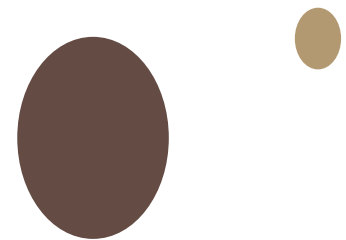


- **Types of Vulnerability Assessments:**
- Host Based, Network Based, and Database based

- **Types of Penetration Tests:**
 - A zero-knowledge Test: Penetration test team has no real information about the target environment.
 - A full knowledge test: The client organization provides full information to test team.
 - A partial knowledge Test: Penetration test team has partial information about the target environment.



VAPT Types and Strategies



Thanks!

Director:

Mtutuzeli Buwa

Contact:

info@ndalo-risk.co.za

(+27) 64 853 1025