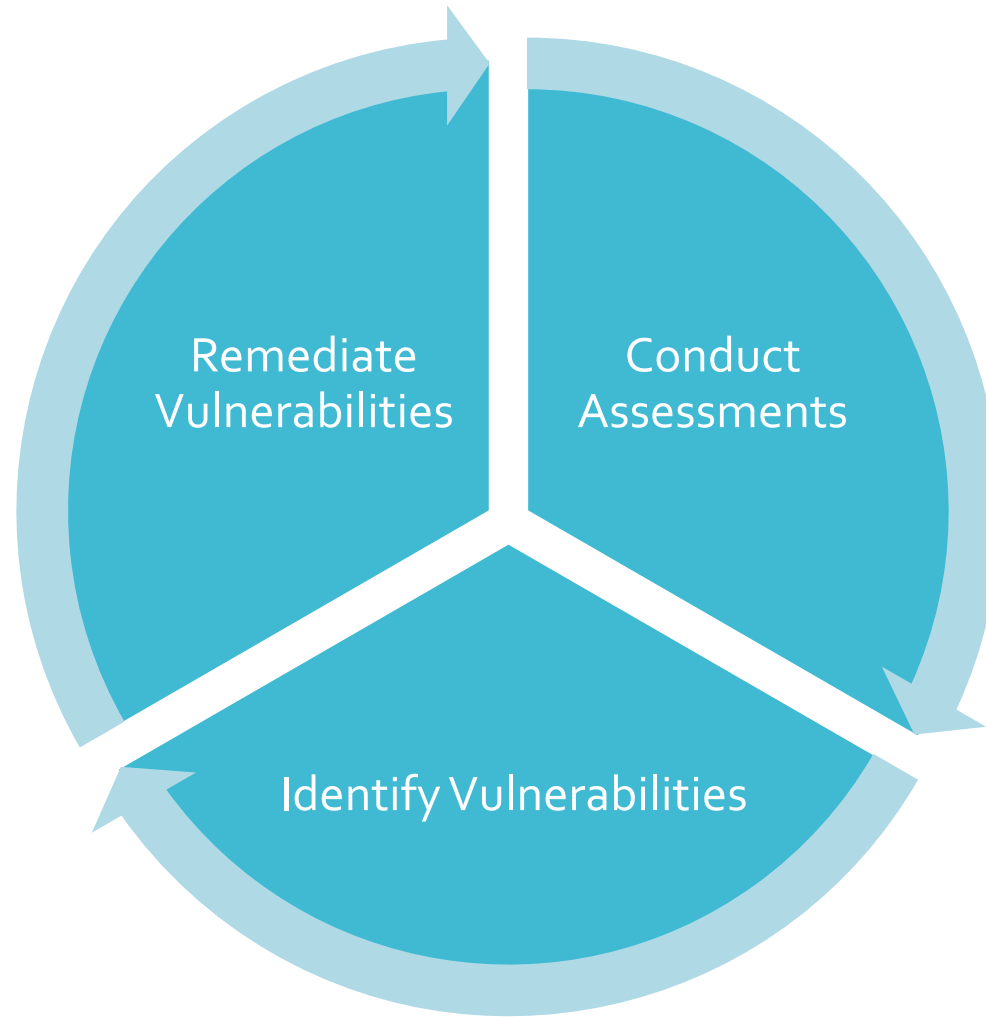


# Process of VA & DF

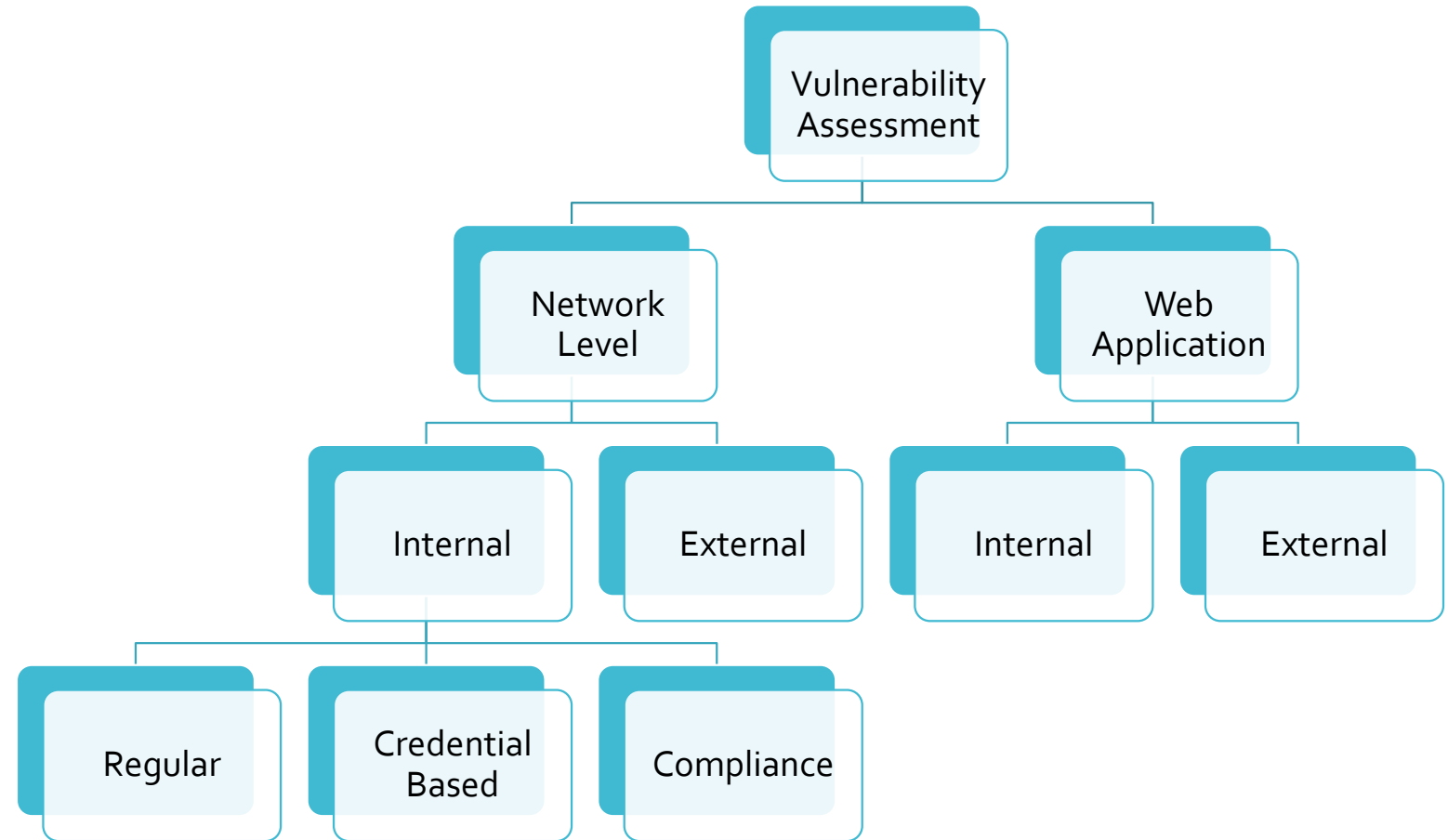
Presented by Isuru Tharanga Malawige



# Vulnerability Management Process



# Vulnerability Assessment Types



# Assessment Plan

Bi-annual



Quarterly



Monthly



# Credential Based Vulnerability Assessments

## Regular VA

- Reconnaissance done via network
- Vulnerabilities identify depend on the port enumeration
- Might be **False Positive**

## Credential Based VA

- Reconnaissance done on the Host (No disruption on the network)
- Identify list of missing patched
- Identify client-side installed software vulnerabilities (AV Software included)
- Tests for default credentials on the system/services
- More **Accurate**

# Compliance Assessments

- Filesystem Configuration
- Password Policy
- User Account Policy
- Access Control
- Audit Policy
- Logging
- Network Configuration
- Firewall Configuration

**Security Configuration checks may vary based on the services running on the system**

## Operating Systems

- Windows
- Linux
- Unix

## Network Devices

- Palo Alto
- Cisco

## Server Software

- Microsoft IIS
- Vmware
- Apache
- IBM DB2
- BIND
- Docker
- MySQL

## Desktop Software

- Microsoft Office
- Google Chrome
- Mozilla Firefox
- Microsoft Exchange

## Mobile Devices

- Apple IOS
- Google Android

# Web Application Security Assessments



- SQLi (Blind/Boolean)
- XSS (Blind/DOM Based)
- CSRF
- Command Injection (Blind)
- File Intrusion (Local/Remote)
- HTTP/Email Header Injection
- RCE (Remote Code Evaluation)



# Tools

## Vulnerability

- Nessus
- Qualys
- Nexpose
- OpenVAS
- Nikto

## Web Application

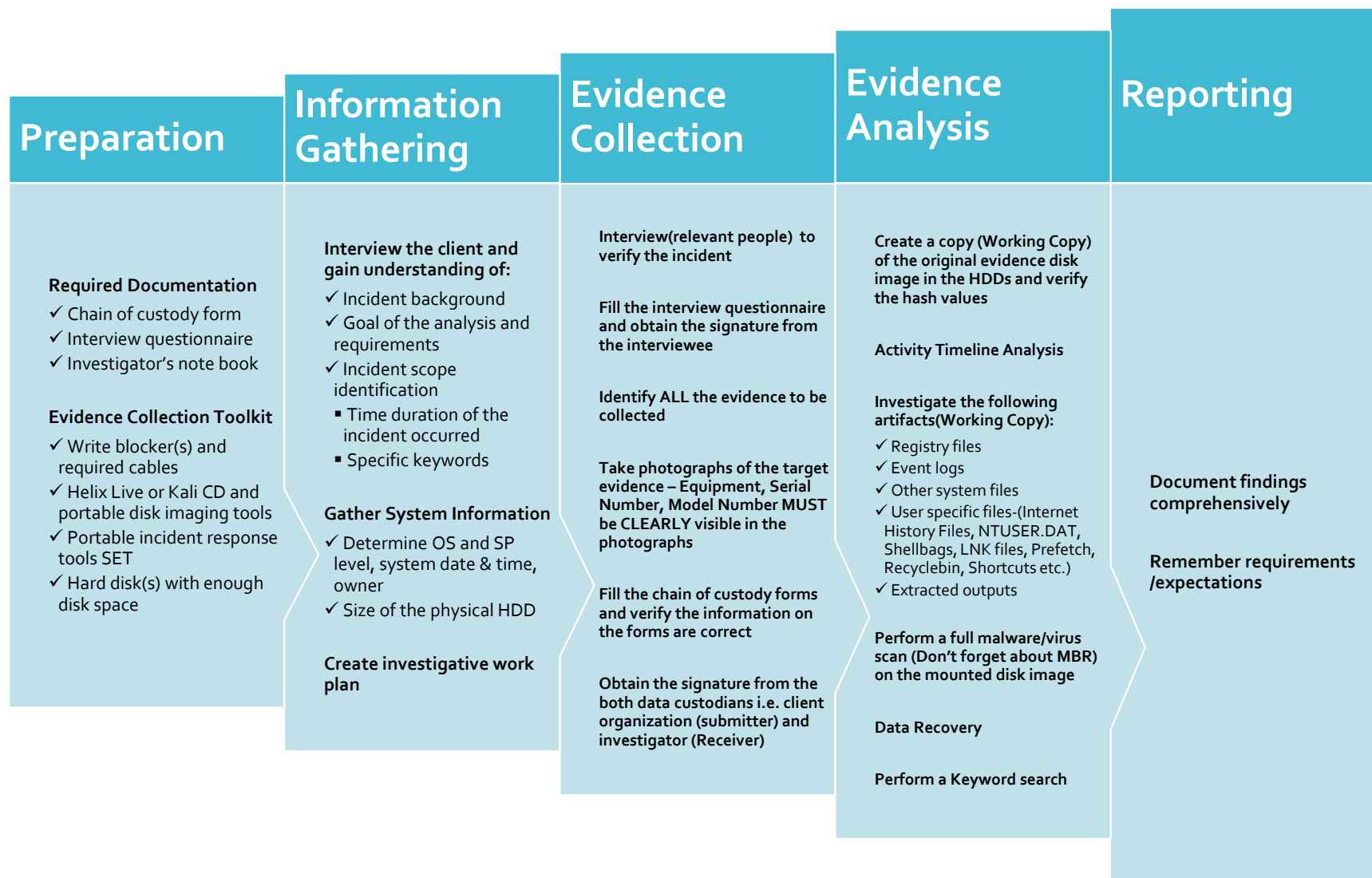
- Acunetix
- Netsparker
- Nessus
- Qualys
- Nexpose
- Detectify
- Burpsuit
- Arachni
- Wapiti

## Compliance

- Nessus
- Qualys
- Nexpose
- SCAP Workbench
- Lynis



# Digital Forensic Investigation Process



# Tools

- Integrated Acquisition -Smartphone, Computer
- View File System
- Registry Viewer
- Keyword Artifact Searching
- Connections for relationship linking
- Mobile Artifacts
- Internet and Email Artifacts
- Recover Deleted Files and Folders
- SQLite Databases Viewer



Q & A

**Thank You**