A comprehensive cheat sheet for using OpenVAS, covering installation, configuration, scanning, and reporting.

Installation and Setup

Installation (Kali Linux)

1. Update Package Lists:

sudo apt update

2. Install OpenVAS:

sudo apt install openvas

3. Setup OpenVAS:

sudo openvas-setup

Note: This process can take a significant amount of time as it downloads and configures vulnerability tests

4. Start OpenVAS Services:

sudo systemctl start openvas-scanner
sudo systemctl start openvas-manager

5. Verify Services Status:

sudo systemctl status openvas-scanner sudo systemctl status openvas-manager

Initial Configuration

1. Access Web Interface:

Open a web browser and navigate to https://localhost:9392.

2. Login:

Use the credentials created during openvas-setup or default credentials if not changed.

3 Update Feeds:

Ensure vulnerability feeds are up-to-date to get the latest vulnerability definitions. This is usually handled automatically but can be triggered manually if needed.

Troubleshooting Installation

1. Feed Status:

Check the feed status to ensure vulnerability definitions are current:

sudo openvas-feed-update

2. Service Issues:

If services fail to start, check logs for errors:

sudo tail -f

/var/log/openvas/openvasmd.log

sudo tail -f

/var/log/openvas/openvassd.messages

3. Rebuild Database:

If issues persist, try rebuilding the OpenVAS database:

sudo openvasmd --rebuild

Basic Scanning Operations

Creating a New Target

1. Navigate to Targets:

In the OpenVAS web interface, go to 'Configuration' -> 'Targets'.

2. Create New Target:

Click on the '+' icon to create a new target.

3. Define Target Details:

Enter the target's name, IP address, and other relevant details.

Ensure the 'Alive Test' is configured correctly (e.g., ping, TCP port).

Creating a New Task

1. Navigate to Tasks:

Go to 'Scans' -> 'Tasks'.

2. Create New Task:

Click on the '*' icon to create a new task.

3. Define Task Details:

- Enter a task name.
- Select the target created earlier.
- Choose a scan configuration (e.g., Full and Fast).

4. Start the Task:

Click 'Create' to create the task, then click the 'Play' button to start the scan.

Monitoring a Scan

1. Task Status:

Monitor the task status in the 'Tasks' section. It will show the progress, current stage, and any errors.

2. Real-time Updates:

The web interface provides real-time updates as the scan progresses.

Reporting and Analysis

Viewing Scan Results

1. Access Results:

Once the scan is complete, click on the task to view the results.

2. Vulnerability Details:

The results show a list of vulnerabilities found, their severity, and details.

3. Filtering and Sorting:

You can filter and sort the results based on severity, CVSS score, and other criteria.

Generating Reports

1. Report Formats:

 $\label{eq:continuous} OpenVAS \ supports \ generating \ reports \ in \ various \\ formats \ (e.g., PDF, XML, HTML).$

2. Generating a Report:

Click on the 'Report' icon for the completed task and choose the desired format.

3. Customizing Reports:

You can customize reports by including or excluding specific vulnerability details.

Analyzing Vulnerabilities

1. Understanding Vulnerability Details:

Each vulnerability report includes detailed information about the vulnerability, its potential impact, and recommended solutions.

2. CVSS Scores:

Pay attention to the CVSS (Common Vulnerability Scoring System) score, which indicates the severity of the vulnerability.

3. Remediation Steps:

Follow the recommended remediation steps provided in the report to mitigate the vulnerabilities.

Advanced Configuration

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Scan Configuration

User Management

1. Target Alive Test:

Configure the 'Alive Test' settings to accurately determine if a target is online (e.g., using ping, TCP, or ARP).

2. Port Lists:

Define custom port lists to specify which ports to scan on the target.

3. Excluding Hosts:

Exclude specific hosts or networks from the scan if needed.

1. Scan Configuration Sets:

OpenVAS provides various scan configuration sets (e.g., Full and Fast, Discovery).

2. Custom Scan Configurations:

You can create custom scan configurations to tailor the scan to your specific needs.

3. QoS (Quality of Service):

Configure QoS settings to limit the impact of the scan on network resources.

1. Creating Users:

Create new user accounts with specific roles and permissions.

2. Role-Based Access Control (RBAC):

Use RBAC to control access to different features and functionalities in OpenVAS.

3. Authentication Methods:

Configure different authentication methods for users (e.g., local authentication, LDAP).