Wist Kenya Technical/demo slides...



Let the hunting begin...

root#whoami

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Top Vulnerabilities

- XSS
- SSTI
- SSRF
- SQLi
- XXE
- Open redirects
- Domain flyovers/takeovers



1. Discovery

- Subdomain scraping sublist3r, amass,google, curl_them_all
- Content discovery Seclist, robots disallowed, burp content discovery, dirb, dirsearch, arjun
- Platform identification wappalyzer
- CMS WPscan, CMSmap
- Port scanning nmap, masscan, brutespray
- Visual identification web screenshots
- CVE search burp (vulners.com)

2. Exploitation:

XSS (cross site scripting)

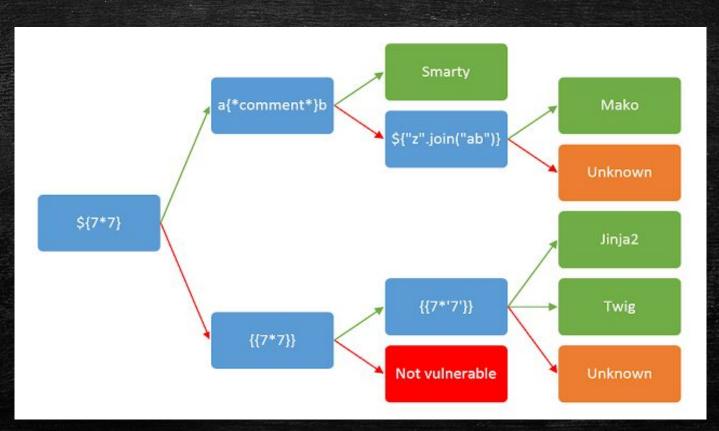
- Types:
 - o Blind
 - Stored
 - Reflected
- Tools listing
 - XSS hunter
 - Sleepy
 - Knockxss
- Polyglots
- Test Environment bwapp, dvwa.

SSTI (server side template injection)

- RCE for modern web apps using template engines like:
 - Flask
 - o Jinja2
 - Twig
- Identification
 - Wappalyzer
 - Fuzzing
 - TPLmap (burp suite)
- Test Environment XVWS



SSTI (identification)



SSRF (server side request forgery)

- Enables attackers to send requests made by the web application, often targeting internal systems behind a firewall.
 - Port scanning
 - Read local files using file:///
 - Attack internal web apps
 - Fingerprint intranet
- Test Environment XVWS

Creative ways to use SSRF

- Port scanning (XSPA)
- Read files from server file://
- gopher://
- data://
- dict://

Filter evasion techniques

- Double encoding.
- Polyglots (XSS,SQLi)
- PHP wrapper filter evasions (LFI)
- Test Environment Enovise VM

File upload vulnerabilities

- Bypassing extentions
- Bypassing content type.
- Adding image header

XXE (xml external entities)

- Happens due to poor parser configuration, enabling attackers to run commands on the system.
- Uses the SYSTEM command to expect an input and execute it from the user
 - Read files from the server
- Test environment: web for pentesters.iso

Shodan

- Search engine for servers and online devices.
- Some shodan dorks
 - hostname: find values that match the hostname
 - os: search based on operating system
 - o port: find particular ports that are open
 - net: search based on an IP or /x CIDR
 - o city: find devices in a particular city
 - o country: find devices in a particular country
 - o geo: you can pass it coordinates
 - o before/after: find results within a timeframe

Leveraging on google

- Useful google dorks
 - inurl:download.php?file= site:ke
 - o inurl: "upload.php" intitle: "upload a file"
 - filetype:inc intext:mysql_connect