° SCOPE BASED RECON FOR MUNDANE (BUG BOUNTY HUNTERS)

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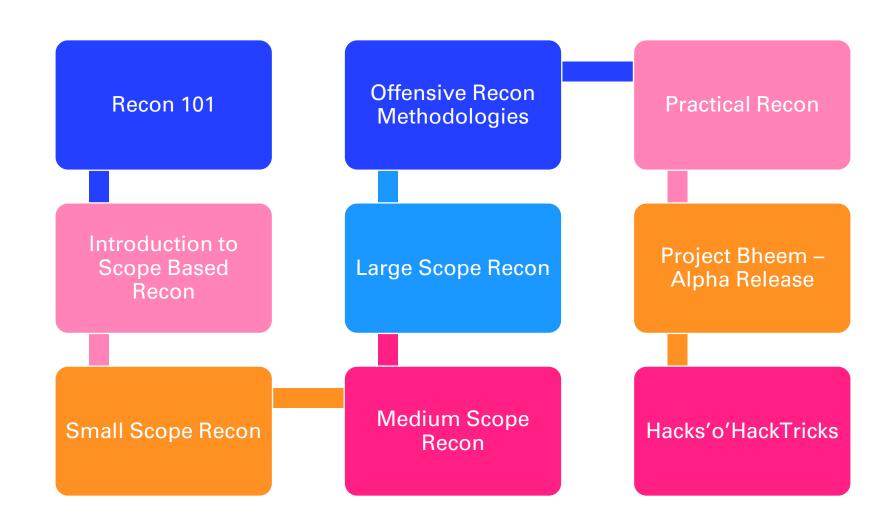


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- **S** DETOX
- Bugcrowd Top 150 Hackers & MVP 2020Q1
- Synack Red Teamer
- Author Hacking: Be a Hacker with Ethics (Gol Recognized)
- Author Mastering Hacking: The Art of Information Gathering & Scanning
- Blogger
- Int. Speaker
- Poet
- Explorer & Learner



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AGENDA



RECON - 101



Understanding Recon

- Recon == Increased Attack Surface ~= More Vulnerabilities
- Recon == Finding Untouched Endpoints ~= Less Dupies



- Recon == Sharpening your Axe before Attack. BUT! Wait! We won't waste time into sharpening our bonds with EX.:p
- We will rather jump in to automate stuff as much as we can to reduce time consumption.

General Misunderstanding

- If I do Recon, I will get a lot of Vulnerabilities?
 - Recon will help you increase attack surface, may allow you to get vulnerabilities but ultimate goal is to dig your target to deepest.
- Automated Recon is sufficient?
 - No, there are certain situations where you might need to look up manually like Github Recon, Google Dorking and others.
- Recon is a time consuming process so I avoid it, am I cool?
 - No, If you will try to play smart moves automating your Recon, you can do a lot of things!
- Recon is love bro!
 - Absolutely, Just like Chaai (Tea)

Before Recon V/S. After Recon

Before Recon

- Target's Name
- Scope Details
- High-Level Overview of Application
- Credentials/Access to the Application
- And some other information based upon target, that's it on high level?



After Recon

- · List of all live subdomains
- List of interesting IPs and Open Ports
- Sensitive Data Exposed on Github
- · Hidden Endpoints
- Juicy Directories with Sensitive Information
- Publicly exposed secrets over various platforms
- Hidden Parameters
- Low hanging vulnerabilities such as Simple RXSS, Open Redirect, SQLi (Yeah, I am serious)
- Scope from 1x to 1000x
- And list goes on like this....

@harshbothra_



SCOPE BASED RECON

The Masterplan to Play Recon Game

The Right Way



Scope Based Recon - Methodology

Small Scope

Single Application or Restricted Scope

Medium Scope

*.target.com or set of applications

Large Scope

Everything in Scope.

Small Scope Recon

Scope – Single/Multiple Page Applications

- What to look for while Recon:
 - Directory Enumeration
 - Service Enumeration
 - Broken Link Hijacking
 - JS Files for Hardcoded APIs & Secrets
 - GitHub Recon (acceptance chance ~ Depends upon Program)
 - Parameter Discovery
 - Wayback History & Waybackurls
 - Google Dork (Looking for Juicy Info related to Scope Domains)
 - Potential URL Extraction for Vulnerability Automation (GF Patterns + Automation Scripts)

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Medium Scope Recon

- Scope *.target.com or similar (multiple applications)
- What to look for while Recon:
 - Subdomain Enumeration
 - Subdomain Takeovers
 - Misconfigured Third-Party Services
 - Misconfigured Storage Options (S3 Buckets)
 - Broken Link Hijacking
 - Directory Enumeration
 - Service Enumeration
 - JS Files for Domains, Sensitive Information such as Hardcoded APIs & Secrets
 - GitHub Recon
 - Parameter Discovery
 - Wayback History & Waybackurls
 - Google Dork for Increasing Attack Surface
 - Internet Search Engine Discovery (Shodan, Censys, Fofa, BinaryEdge, Spyse Etc.)
 - Potential URL Extraction for Vulnerability Automation (GF Patterns + Automation Scripts)

Large Scope Recon – The Actual Gameplay

Scope – Everything in Scope

What to look for while Recon:

- Tracking & Tracing every possible signatures of the Target Application (Often there might not be any history on Google related to a scope target, but you can still crawl it.)
- Subsidiary & Acquisition Enumeration (Depth – Max)
- DNS Enumeration
- SSL Enumeration
- ASN & IP Space Enumeration and Service Identification
- Subdomain Enumeration
- Subdomain Takeovers
- Misconfigured Third-Party Services
- Misconfigured Storage Options (S3 Buckets)
- · Broken Link Hijacking

What to look for while Recon:

- Directory Enumeration
- Service Enumeration
- JS Files for Domains, Sensitive Information such as Hardcoded APIs & Secrets
- GitHub Recon
- Parameter Discovery
- Wayback History & Waybackurls
- Google Dork for Increasing Attack Surface
- Internet Search Engine Discovery (Shodan, Censys, Fofa, BinaryEdge, Spyse Etc.)
- Potential URL Extraction for Vulnerability Automation (GF Patterns + Automation Scripts)
- And any possible Recon Vector (Network/Web) can be applied.



Choose Scope Based Recon



Create a Script for Automating Scope Based Recon



Run Automation Script over Cloud.



Manually Recon (GitHub & Search Engine Dorking) while Automation Completes.



Create Cron Jobs/Schedulers to Re-Run specific Recon task to identify the new assets.



Implement alerts/push for Slack or preferred

Offensive Approach for Recon

PRACTICAL RECON



PROJECT BHEEM – ALPHA

• HACKS'O'HACKTRICKS

A Special Shoutout to ALL THE TOOLS & Resource Creators ... :D

(Apologies if I miss any, Efforts of Every single person is appreciated)

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@ GerbenJavado

@gwendallecoguic

@hakluke

@sa7mon

@jordanpotti

@hahwul

@0xAsm0d3us

@s0md3v

@Robert David

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