

What is Subdomain?



- A subdomain is a second-level domain that is part of a larger domain.
- Subdomains can be used for a variety of purposes, such as to host a blog, an e-commerce site, or even an entirely different website from the root domain.
- Subdomains are often used to segregate different services or functionalities within an organization.

What do you mean by SubdomainEnumeration?

- It is the process of finding as many
- subdomains as possible and expanding our attack surface by finding any hiddenweb applications or forgotten subdomains.
- There are many great tools for enumerating subdomains for one or moredomains.
- These tools are crucial in a penetration testing environment, to find subdomainsand test on all the targets for finding anybugs.
- Tools for subdomain enumeration includeamass, subfinder, pdlist, turbolist3r, etc.

- All these tools are fast and efficient and have their own unique features.
- Let's see some of the tools and their usage.

Why sub-domain enumeration is important?

- Sub-domain enumeration can reveal a lot of domains/subdomains that are in scope of a security assessment which in turn increases the chances of finding vulnerabilities.
- By enumerating all subdomains, you may be able to find subdomains that are less well- protected than the root domain or the target organization, making them more vulnerable to attack.
- Finding applications running on hidden, forgotten subdomains may lead to uncovering critical vulnerabilities.
- Often times the same vulnerabilities tend to be present across different domains/applications of the same organization.
- In some cases, organizations may have misconfigured DNS entries that reveal sensitive information, such as internal IP addresses.

1) Subfinder (by Project Discovery)

- Target tested on: http://www.vulnweb.com
- GitHub Link: https://github.com/projectdiscovery/subfinder
- Tool Example POC on target:



• Usage: subfinder -d <target.com>

2) Assetfinder (by tomnomnom)

- Target tested on: http://www.vulweb.com
- GitHub Link: https://github.com/tomnom/assetfinder
- Tool Example POC on target:



• Usage: assetfinder -subs-only <target.com>

References

- 1. Vulnweb: http://www.vulnweb.com
- 2. Assetfinder:

https://github.com/tomnomnom/assetfinder

3. Subfinder:

https://github.com/projectdiscovery/subfind er

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