

Vhost Fuzzing

As we saw in the previous section, we were able to fuzz public sub-domains using public DNS records. However, when it came to fuzzing sub-domains that do not have a public DNS record or sub-domains under websites that are not public, we could not use the same method. In this section, we will learn how to do that with **Vhost Fuzzing**.

Vhosts vs. Sub-domains

The key difference between VHosts and sub-domains is that a VHost is basically a 'sub-domain' served on the same server and has the same IP, such that a single IP could be serving two or more different websites.

VHosts may or may not have public DNS records.

In many cases, many websites would actually have sub-domains that are not public and will not publish them in public DNS records, and hence if we visit them in a browser, we would fail to connect, as the public DNS would not know their IP. Once again, if we use the **sub-domain fuzzing**, we would only be able to identify public sub-domains but will not identify any sub-domains that are not public.

This is where we utilize **VHosts Fuzzing** on an IP we already have. We will run a scan and test for scans on the same IP, and then we will be able to identify both public and non-public sub-domains and VHosts.

Vhosts Fuzzing

To scan for VHosts, without manually adding the entire wordlist to our `/etc/hosts`, we will be fuzzing HTTP headers, specifically the **Host:** header. To do that, we can use the **-H** flag to specify a header and will use the **FUZZ** keyword within it, as follows:

```
Vhost Fuzzing

MisaelMacias@htb[/htb]$ ffuf -w /opt/useful/seclists/Discovery/DNS/subdomains-top1million-5000.txt:FUZZ -u http://acad

v1.1.0-git

-----
:: Method      : GET
:: URL         : http://academy.htb:PORT/
:: Wordlist    : FUZZ: /opt/useful/seclists/Discovery/DNS/subdomains-top1million-5000.txt
:: Header      : Host: FUZZ
:: Follow redirects : false
:: Calibration : false
:: Timeout     : 10
:: Threads     : 40
:: Matcher     : Response status: 200,204,301,302,307,401,403
-----

mail2      [Status: 200, Size: 900, Words: 423, Lines: 56]
dns2       [Status: 200, Size: 900, Words: 423, Lines: 56]
ns3        [Status: 200, Size: 900, Words: 423, Lines: 56]
dns1       [Status: 200, Size: 900, Words: 423, Lines: 56]
lists      [Status: 200, Size: 900, Words: 423, Lines: 56]
webmail    [Status: 200, Size: 900, Words: 423, Lines: 56]
static     [Status: 200, Size: 900, Words: 423, Lines: 56]
web        [Status: 200, Size: 900, Words: 423, Lines: 56]
www1       [Status: 200, Size: 900, Words: 423, Lines: 56]
<...SNIP...>
```

We see that all words in the wordlist are returning **200 OK**! This is expected, as we are simply changing the header while visiting `http://academy.htb:PORT/`. So, we know that we will always get **200 OK**. However, if the VHost does exist and we send a correct one in the header, we should get a different response size, as in that case, we would be getting the page from that VHosts, which is likely to show a different page.

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