## **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 subdomains 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

## **Vhosts vs. Sub-domains**

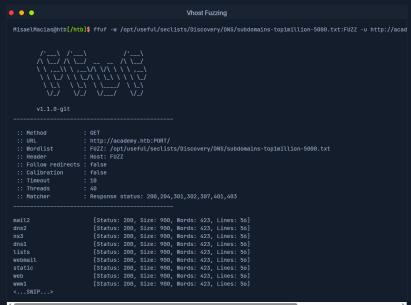
The key difference between VHosts and sub-domains is that a VHost is basically a 'sub-domain' served on the same server and has the same IP, such that a single IP could be serving two or more different websites.

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:



We see that all words in the wordlist are returning 200 0K! This is expected, as we are simply changing the header while visiting http://academy.htb:PORT/. So, we know that we will always get 288 0K. 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.





