LAB 17

Dig Command

Tool: Kali Linux

STEP 1: Dig is a tool which can be used on either Linux or Mac OS. Dig comes pre-installed on Kali Linux and you can check its version using the following command: dig -v

The dig syntax looks like the following:

Dig [server] [name] [type]

We will begin by performing a simple dig command. Type the following into a terminal:

dig google.com

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## Madrie W Paut Device Help

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STEP 2: There may be a time when you only want the result of the query. This can be achieved in dig with the following command: dig google.com +short

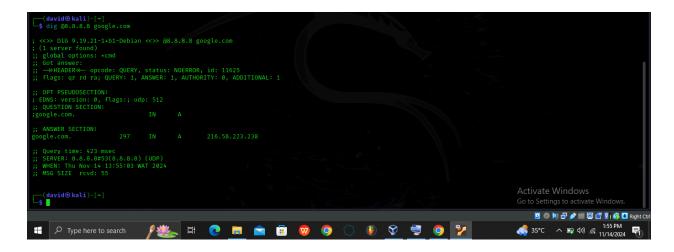


STEP 3:This next command will get rid of all information before the answer section, for easier reading. We can specify this using the following command: dig google.com +noall +answer

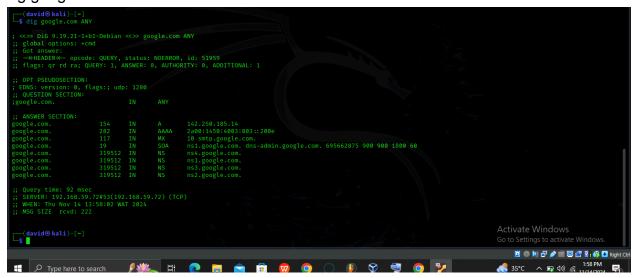


STEP 4:We can also specify the nameservers we wish to query using the following command:

dig @8.8.8.8 google.com



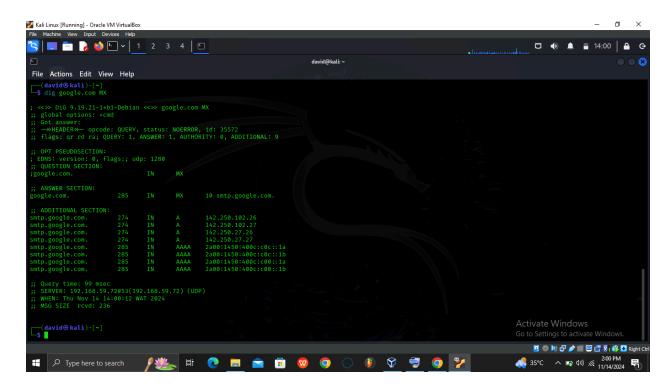
STEP 5:If we want to query all DNS record types, we can use the "ANY" option. This will display all the available record types in the output: dig google.com ANY



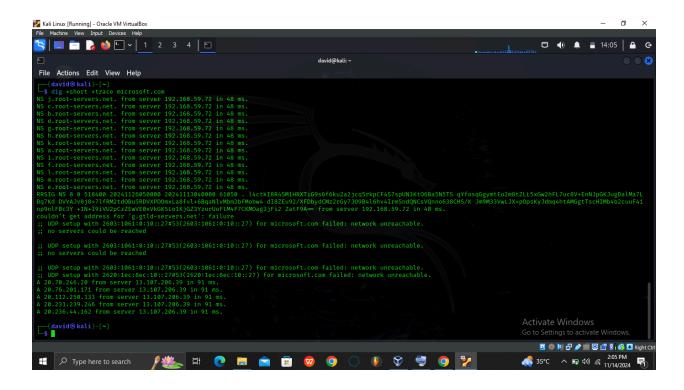
STEP 6: We can also look up a specific record. For example, if we want to get only the mail exchange section associated with a domain, we can use the following command: dig google.com MX

We can query a number of specific record types using the following tags in place of MX:

TXT, CNAME, NS, A

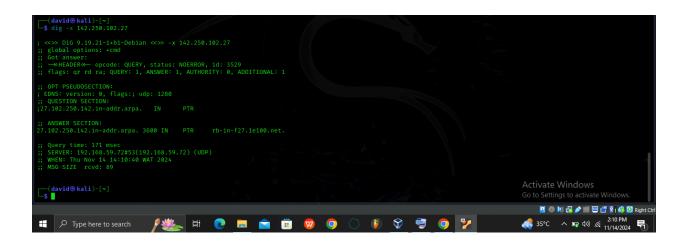


STEP 7:We can trace the DNS path with traceroute, using the following command: dig +short +trace microsoft.com



STEP 8: We can trace the DNS path, similar to traceroute, using the following command:

dig -x 142.250.102.27



STEP 9: It is possible to access domain verification data by making a DNS TXT query. Dig is a tool with multiple uses and can be very useful for gathering a broad range of DNS information about a target site.

dig +short TXT hackaday.com

