

Windows Lateral Movement 3

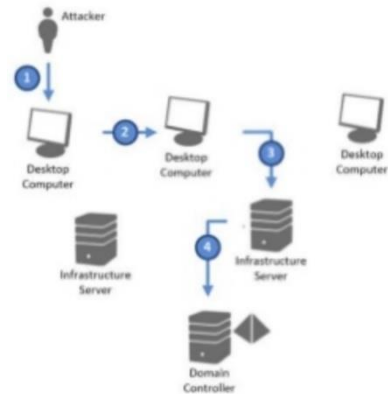
Information Security Inc.

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Lateral Pass => Moving through the network

- A lateral pass is used when you can not move forward, you are on the compromised network but without privileges or account credentials
- It is important to identify where sensitive data is being stored and gain access to those environments



On the network without credentials => identify the network

- You breached the network but not having any credentials yet (popped a box that was not connected to the domain)
- Identify the network (tcpdump,nmap,Interceptor-NG), find the domain controllers and attack




On the network without credentials => identify the network

- Interceptor-NG example: identifying the DC

Interceptor-NG 1.0

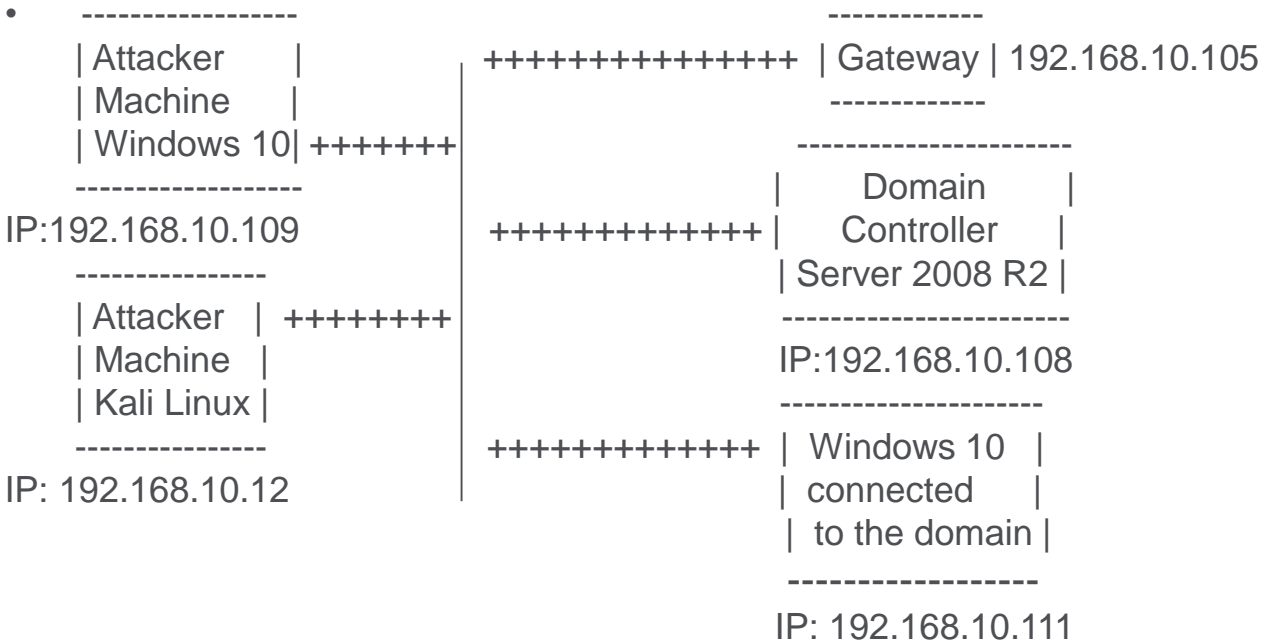
Network Adapter

['Intel(R) 82574L Gigabit Network Connection' on local host:192.168.10.109]



Protocol	Tim...	From/To	H..	Username	Password
Kerberos Auth	19:0...	192.168.10.108/192.168.10.111:88		aes256-cts-hmac-sha1...	SWITCH\Gaku:\$mskrb5...
LDAP Auth	19:0...	192.168.10.111/192.168.10.108:389	£		9"ýuid²Ñ0_L&+ù
LDAP Auth	19:0...	192.168.10.111/192.168.10.108:389	£		YUWEµo#dIÇÜim: +ISó(B...

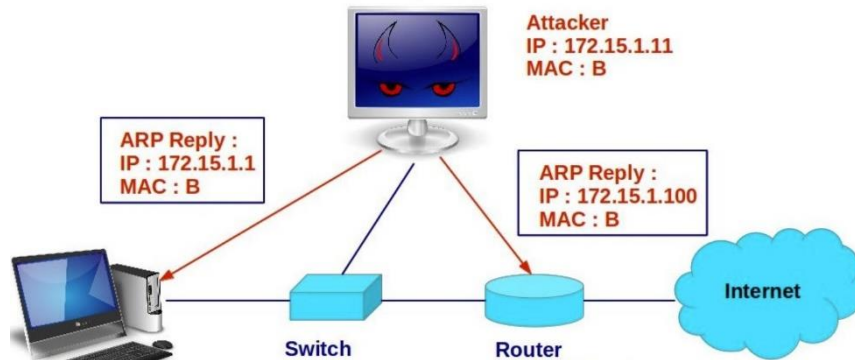
Test Setup



A variety of attacks to comprise the systems

- ARP poisoning; Used as either resort or for a very specific test
- There is generally a good chance that you will affect end users

ARP Spoofing Attack



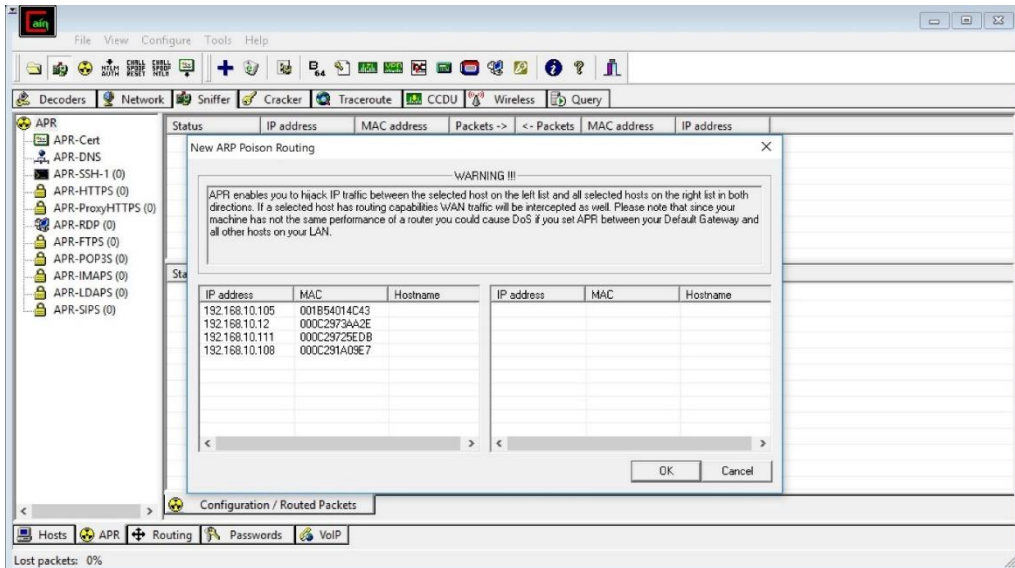
A variety of attacks to comprise the systems

- ARP poisoning tools
- Cain and Abel



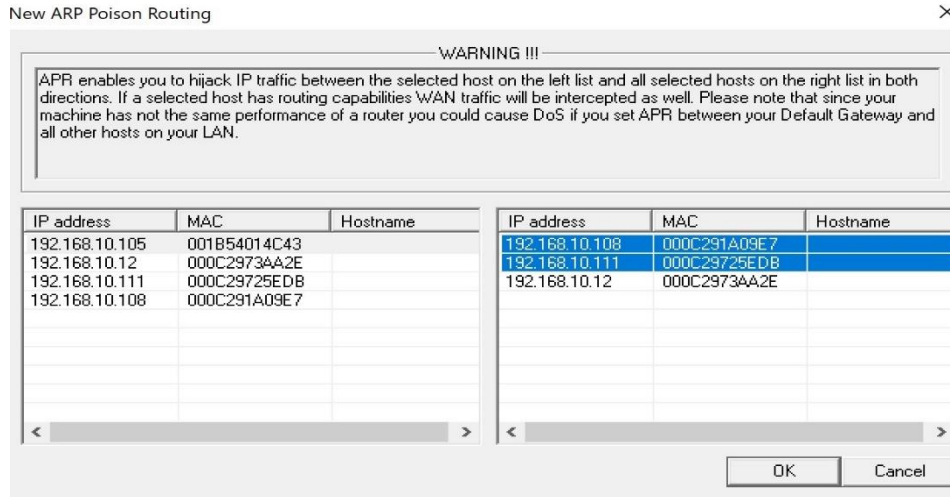
A variety of attacks to comprise the systems

- Scanning MAC Addresses and listing IPs



A variety of attacks to comprise the systems

- Click on the gateway on the right (192.168.10.105) and select the Hosts you want to attack on the left



A variety of attacks to comprise the systems

- Starting MiTM attack

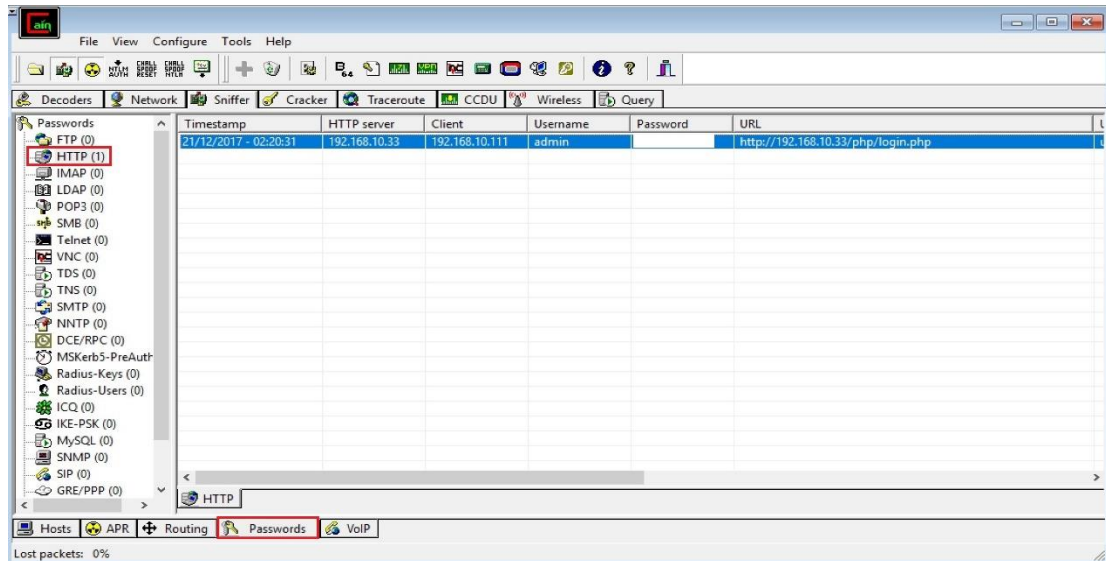
The screenshot shows the APR interface with a toolbar at the top containing icons for NTLM Spoof, CHALL Spoof, and a 'Start/Stop APR' button. The sidebar on the left lists various attack types. The main window displays two tables of attack results.

Status	IP address	MAC address	Packets ->	<- Packets	MAC address	IP address
Poisoning	192.168.10.105	001B54014C43	0	0	000C29725EDB	192.168.10.111
Poisoning	192.168.10.105	001B54014C43	0	0	000C291A09E7	192.168.10.108

Status	IP address	MAC address	Packets ->	<- Packets	MAC address	IP address
Full-routing	192.168.10.111	000C29725EDB	3	2	001B54014C43	40.77.228.92
Full-routing	192.168.10.111	000C29725EDB	18	10	001B54014C43	111.221.29.254
Full-routing	192.168.10.111	000C29725EDB	12	9	001B54014C43	40.77.226.92
Full-routing	192.168.10.111	000C29725EDB	1811	5128	001B54014C43	61.86.202.106

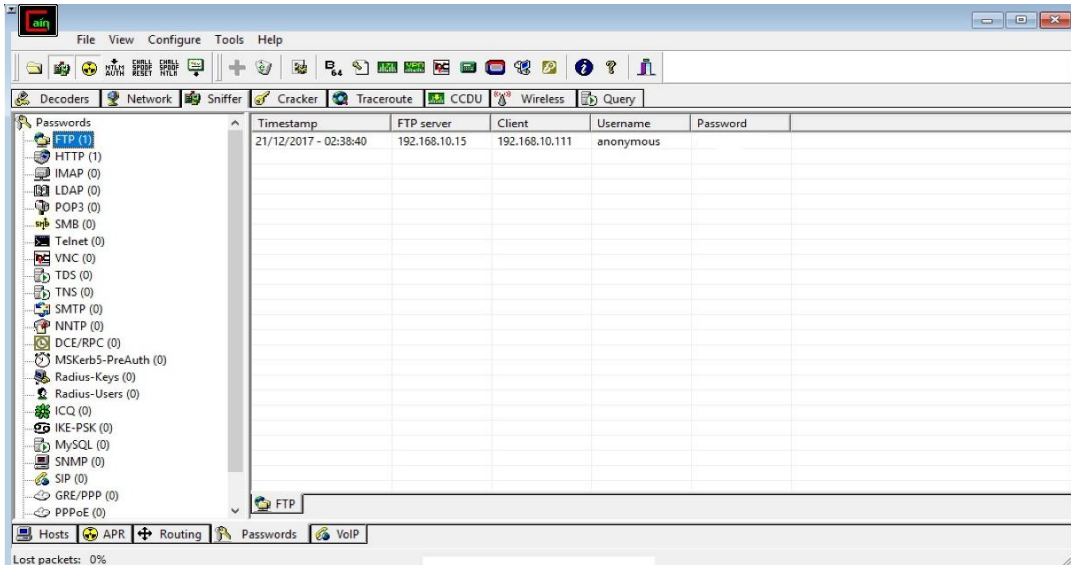
A variety of attacks to comprise the systems

- Looking for clear text passwords, HTTP



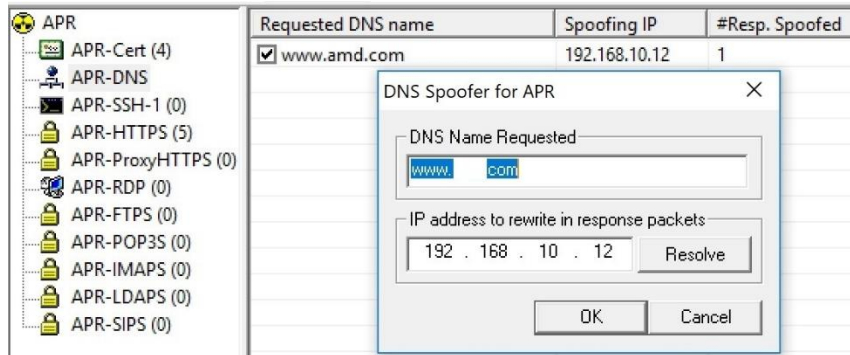
A variety of attacks to comprise the systems

- Looking for clear text passwords, FTP



A variety of attacks to comprise the systems

- DNS spoofing



References

- Cain and Abel
<http://www.oxid.it/cain.html>
- Wikipedia ARP spoofing
https://en.wikipedia.org/wiki/ARP_spoofing