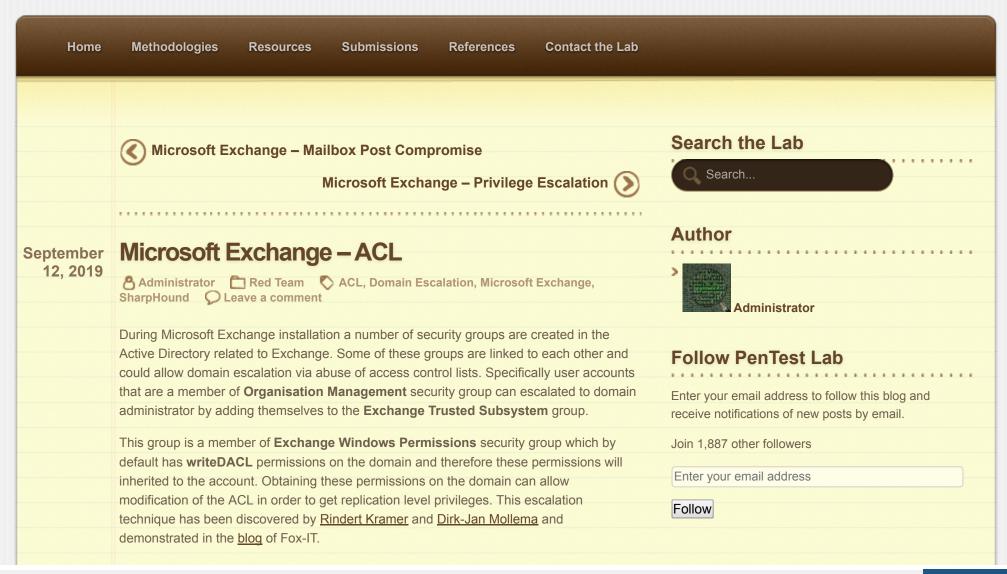
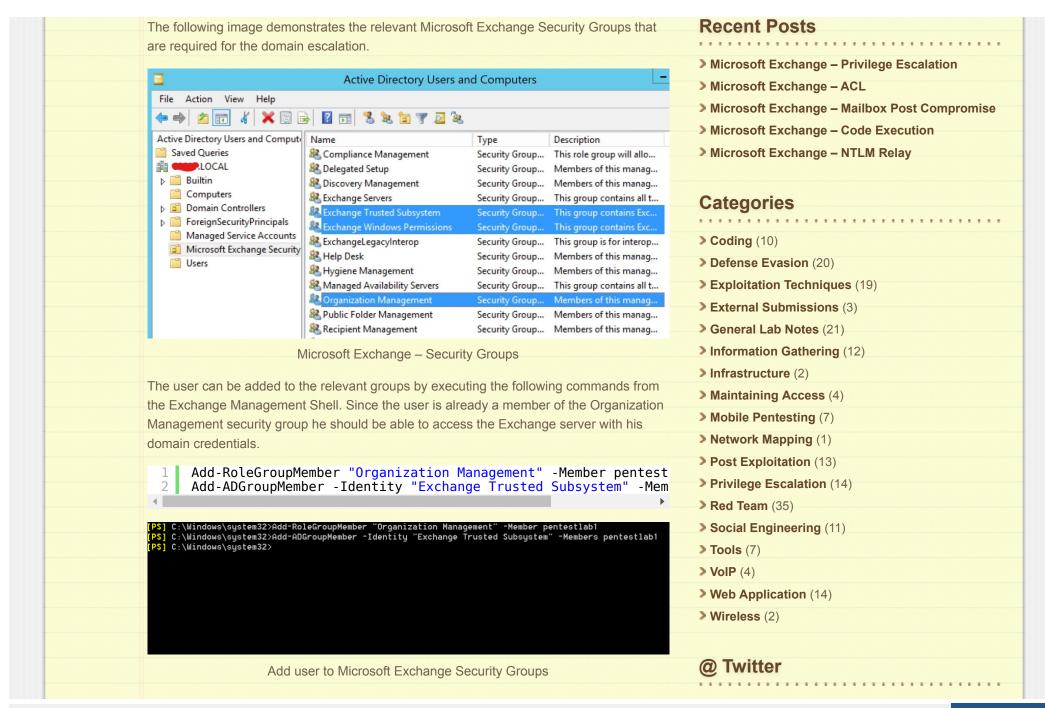
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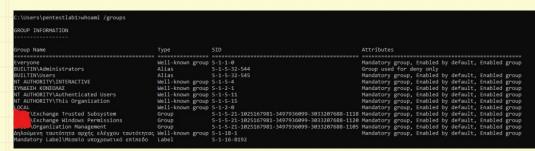
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Running the following command in the Windows command prompt will verify that the user was added to the Exchange Security Groups.

1 whoami /groups



Verification that User was Added to Exchange Security Groups

The <u>Invoke-ACLpwn</u> PowerShell script can be used to perform the modification in the ACL of the domain in order the user to obtain the following privileges:

- Replicating Directory Changes
- Replicating Directory Changes All

The script requires <u>SharpHound</u> for retrieving Access Control Entries (ACE's) and enumeration of domain objects and Mimikatz for DCSync operations (dumping the password hash of Kerberos account). The following command can be executed to retrieve the hash of the Kerberos account (krbtgt).

1 .\Invoke-ACLPwn.ps1 -SharpHoundLocation .\SharpHound.exe -mim

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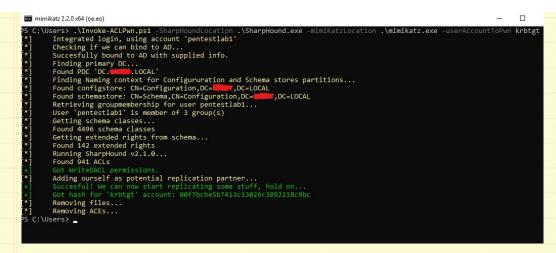
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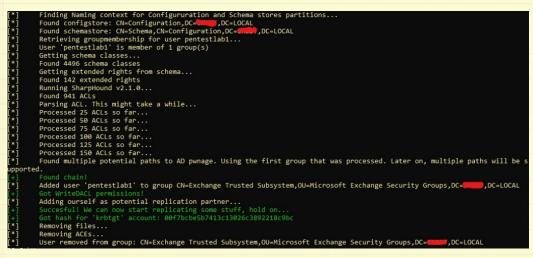




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Invoke-ACI Pwn - Domain Escalation

It should be noted that adding the user to the **Exchange Trusted Subsystem** security group manually from the Exchange Management Shell is not required as the script will attempt to find the chain and will add the user automatically.



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Domain Escalation – User only belongs to Organization Management

Obtaining the hash of the Kerberos account can be used to create a <u>Golden ticket</u> which can access any resource on the domain by impersonating any user on the network (even users that doesn't exist).

