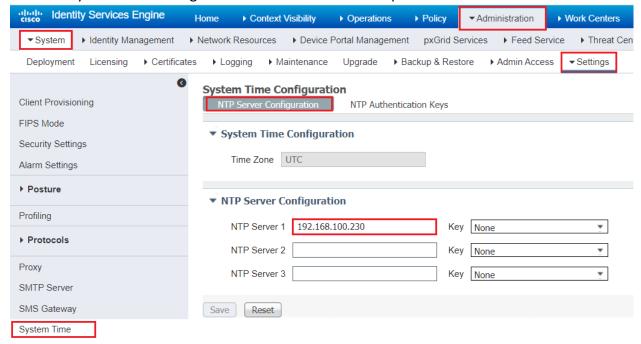
# ISE Active Directory Admin Login:

If you're working in an Active Directory environment you should consider using AD credentials for authenticating against ISE instead of locally stored credentials. Not only are AD credentials more convenient to use, it's also easier to track the activity of user's within ISE when they are using their own credentials versus shared locally stored credentials. it will fall back to the local credentials should AD be unavailable. Another nice thing about AD integration is you can use AD security groups for Role Based Access Control (RBAC) to ISE. Once you've set up the roles in ISE and created the AD groups it's as simple as adding AD users to a security group when they're hired and removing them from the AD group when they retire or change positions.

## Setting NTP Server:

Navigate to Administration -> System -> Settings -> System Time and expand the NTP Server Configuration field. Enter your NTP server information in the NTP Server fields and click Save. We already have NTP setting in the time of Installation we provide.



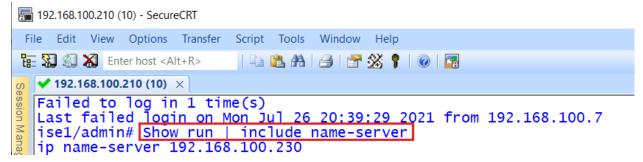
## Verifying DNS Settings:

If you do not have DNS servers listed or the incorrect servers are listed, then you need to fix it. Within the console or SSH session into your ISE appliance run the command:

#### config

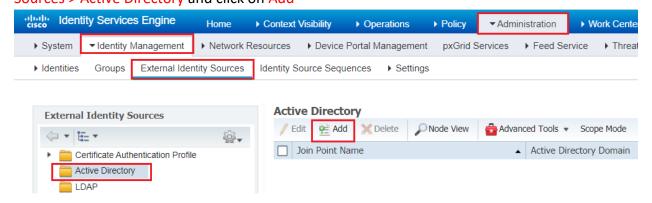
ip name-server 192.168.100.230 write memory

We also need to verify that DNS is set correctly. If ISE cannot resolve DNS with your domain name servers then joining your domain will fail. Open the console or an SSH session into your ISE appliance and run the command. show run | include name-server

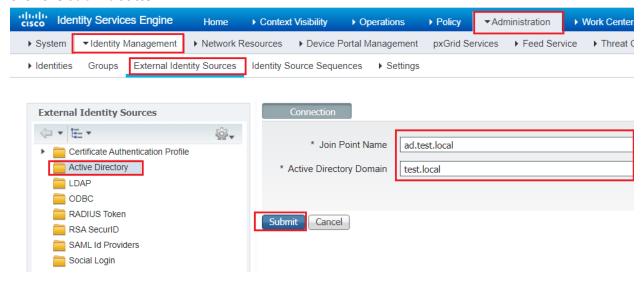


### Joining Active Directory Domain:

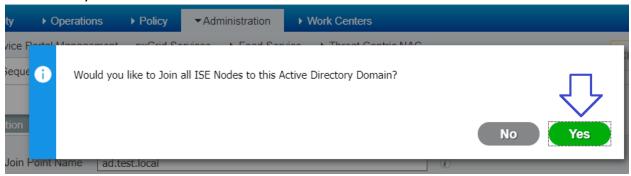
Before we can use Active Directory to control authentication to ISE for admins we need to join ISE to the domain. Navigate to Administration >Identity Management> External Identity Sources > Active Directory and click on Add



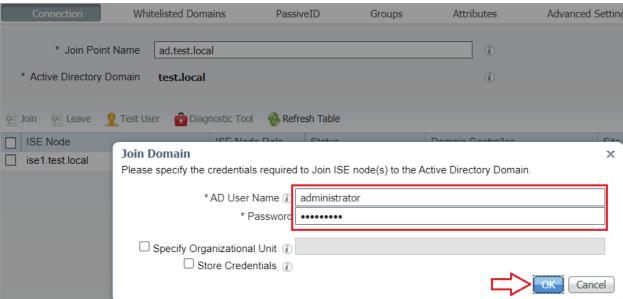
Enter domain name in Active Directory Domain boxes and Join Point Name anything you like click the Submit button.



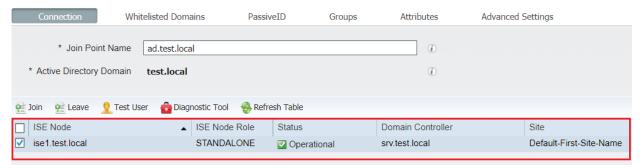
A pop-up appears asking if you want to join the newly created join point to the domain. Click Yes. If you want to join immediately. If you clicked No, then saving the configuration saves the Active Directory domain configuration globally, but none of the Cisco ISE nodes are joined to the domain yet.



Enter Active Directory username & password from Join Domain dialog box that opens. Click OK.

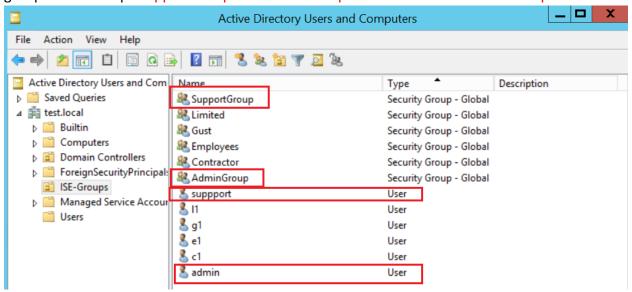


Now the status of Join Point change to Operational and list of Domain Controller.

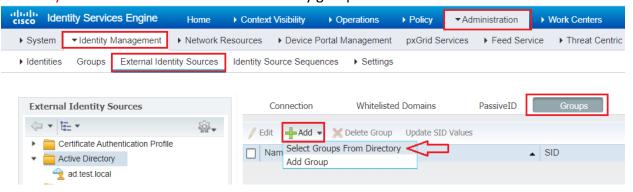


## **Create Groups and Users:**

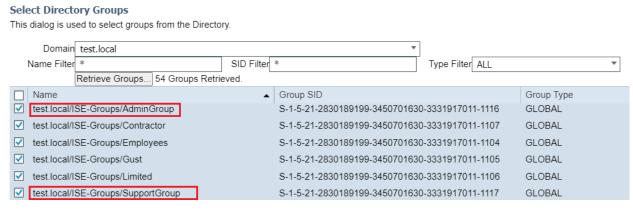
Create two groups in Active Directory and for test purpose create two users and add them to groups. Two Groups SupportGroup and AdminGroup and two users admin1 and sup1



After ISE is joined to domain, Choose Administration > Identity Management > External Identity Sources > Active Directory. Click the Groups Tab. Click on Add and then Select Groups from Directory. This is where we add Active Directory groups to ISE for future use.

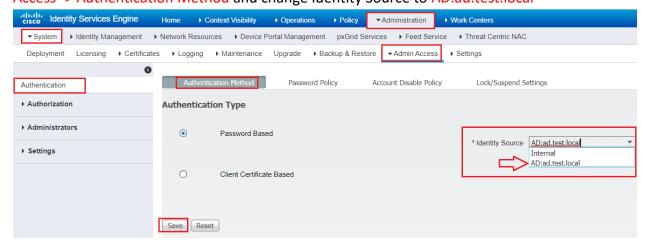


Used an asterisk to pull up all my AD groups: Check the check boxes next to the groups that you want to be available for use in authorization policies and click OK.

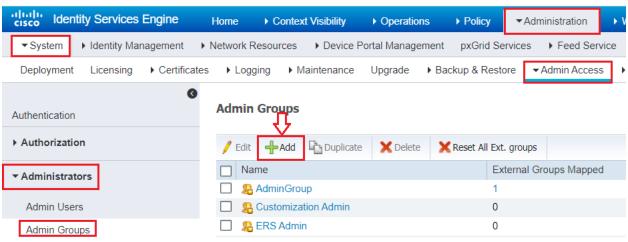


## Set ISE to Use AD for Admin Login Authentication:

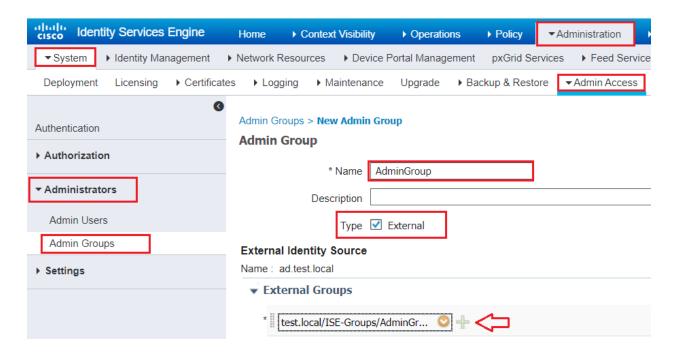
Now that we've prepared our environment we can begin configuring ISE to use AD for authenticating admins to the ISE admin page. Navigate to Administration -> System -> Admin Access -> Authentication Method and change Identity Source to AD:ad.test.local



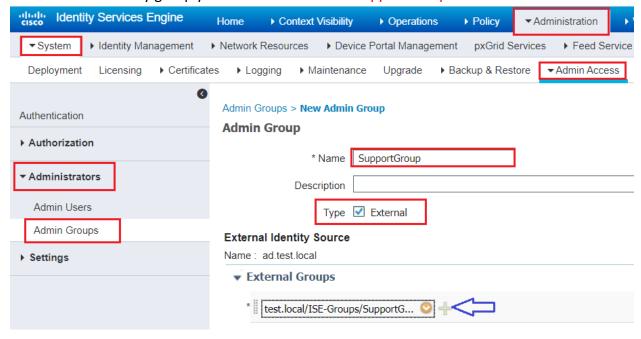
Navigate to Administration -> System -> Admin Access -> Administrators -> Admin Groups and click Add



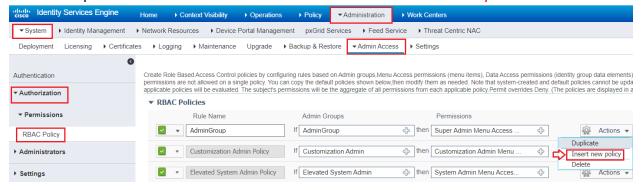
In the screen that opens enter a group name, check the External box, and then select the AD security group you added to ISE earlier AdminGroup. Click Submit.



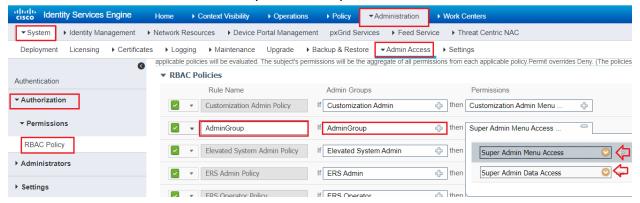
Repeat the same for Support Group, enter a group name, check the External box, and then select the AD security group you added to ISE earlier SupportGroup. Click Submit.



Navigate to Administration -> System -> Admin Access -> Authorization -> Policy and click the Actions drop down on one of the RBAC Policies and click Insert New Policy.



Enter a Rule Name, add the group you created above to the Admin Groups filed, then add both the Menu Access and Data Access for your desired permission level.



Create new Rule this time for SupportGroup, then add both Menu and Data Access. Click Save.



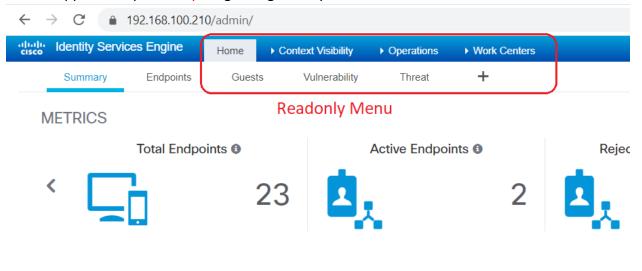
Now, you should be able to log into your ISE server using your domain credentials. Login AdminGroup user in this case admin1 when login he will get full read and write access.



Now, you should be able to log into your ISE server using your domain credentials. Login SupportGroup user in this case <a href="sup1">sup1</a> when login he will get read access.



When SupportGroup user <a href="sup1">sup1</a> login he gets only limited access and Manu.



Should you ever have troubling logging in using domain credentials you can click the drop down after your domain in the Identity Source screen and choose Internal. You can then sign in using the local admin account you created at install.

