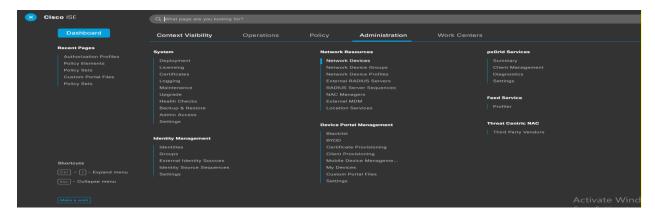
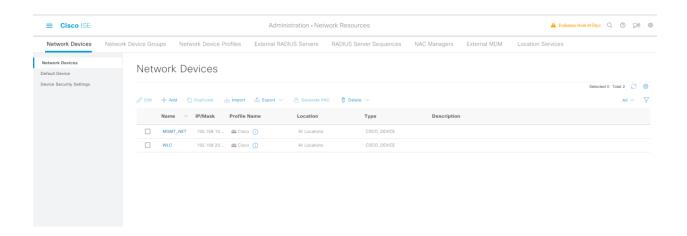
<u>Project Name: Cisco ISE integration with Cisco WLC for an Government organization</u>

Cisco ISE configuration

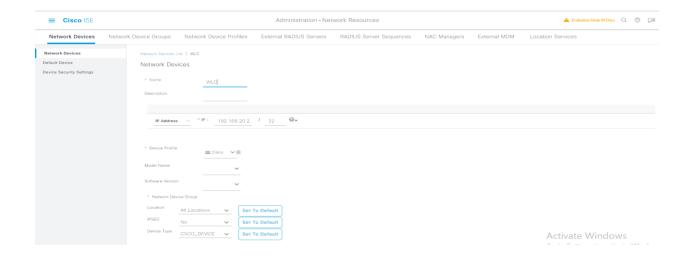
After login to ISE, we will get a **Dashboard** like below. To add integrated network devices with ISE, we have to select **Administration -> Network Resources -> Network Devices** tab.



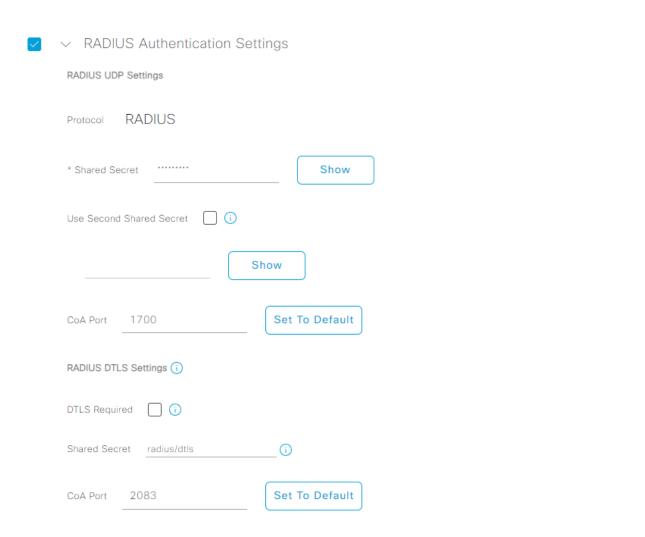
Click on 'Network Devices and Add new devices like below:

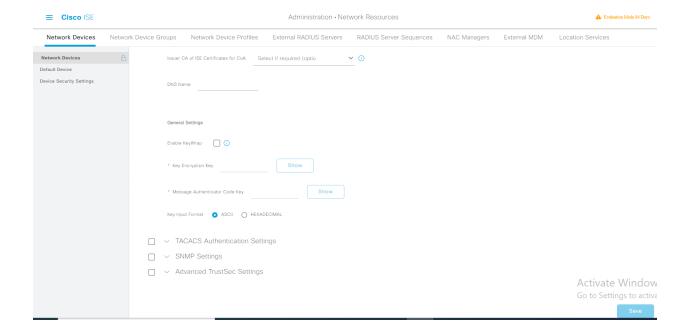


Set Name, Device Profile, IP Address and Device type like below:



Configuring RADIUS settings. Same shared secret key needs to be set for WLC and ISE integration. Ports are set by default and Save it.

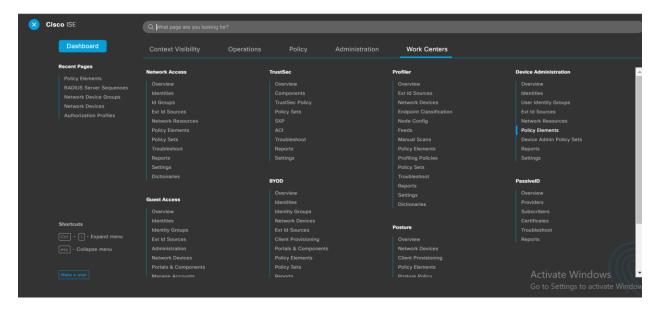




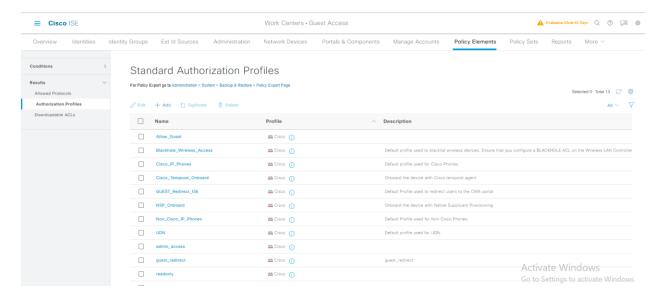
If there are multiple devices with same profile or category, we can add those devices in a common group.



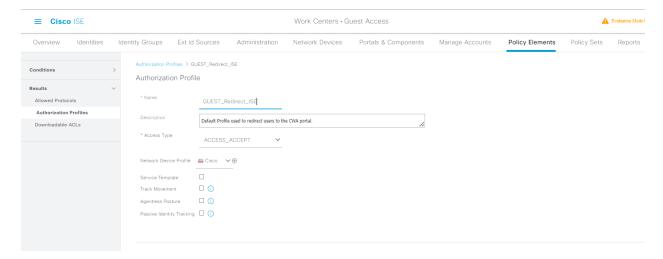
Click on Work Centers -> Guest Access -> Policy Elements



Then we need to create Authorization **Profiles.** For this purpose, we created two **Authorization profiles** named **Allow_Guest** to allow any ip after authentication and authorization of SSID and another profile is **GUEST_Redirect_ISE** to redirect a page containing Sign-on form and Registration Form while connecting to that SSID.

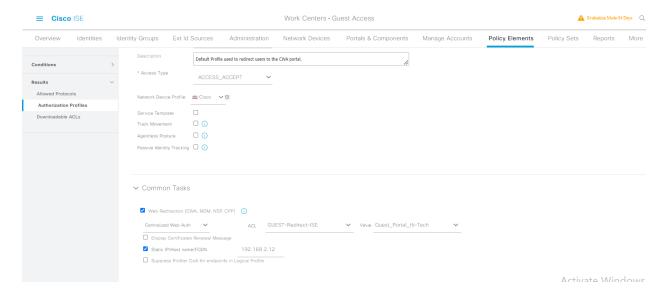


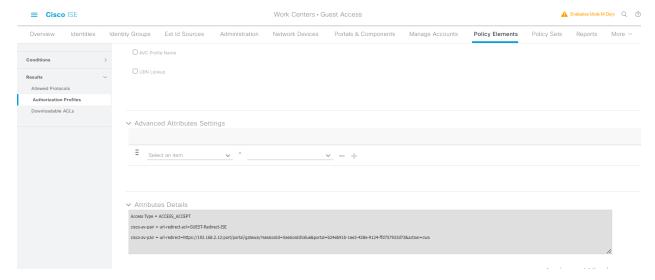
Let's have an example to create **Authorization Profile** like below:



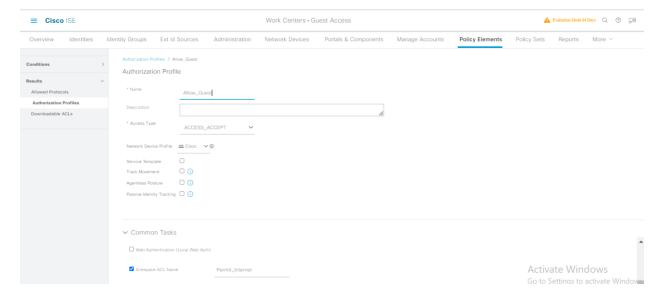
In **Common Tasks**, we need to select Web Redirection as **'Centralized Web Auth'** and provide the same ACL defined in WLC. Also we need to select the Value which we will show later where it was created.

Finally need to give the static IP (ISE-192.168.2.12) so that it can redirect to this page when connected to SSID.

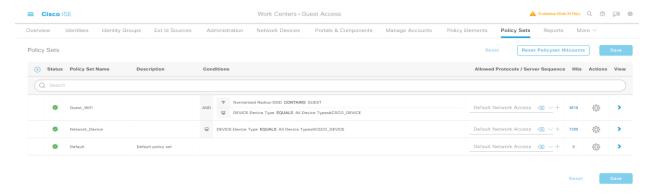




Same task need to be done for another Authorization profile for 'Allow_Guest'



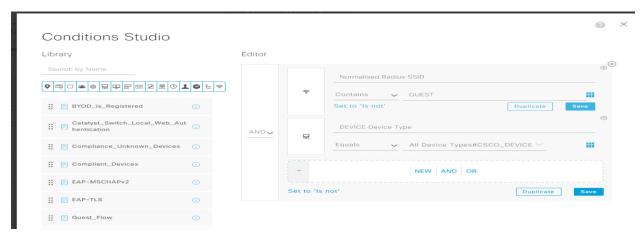
Then we have to create a policy sets from **Policy Sets** tab named **Guest_WiFi**. Here we have to apply some conditions like below:

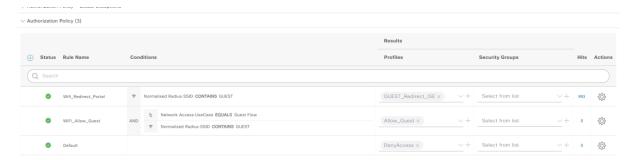


Also need to create **Authentication Policy (MAB)** and **Authorization Policy (Wifi_Redirect_Portal and WIFI_Guest)** from the newly created policy set. Here also conditions need to be applied as well.



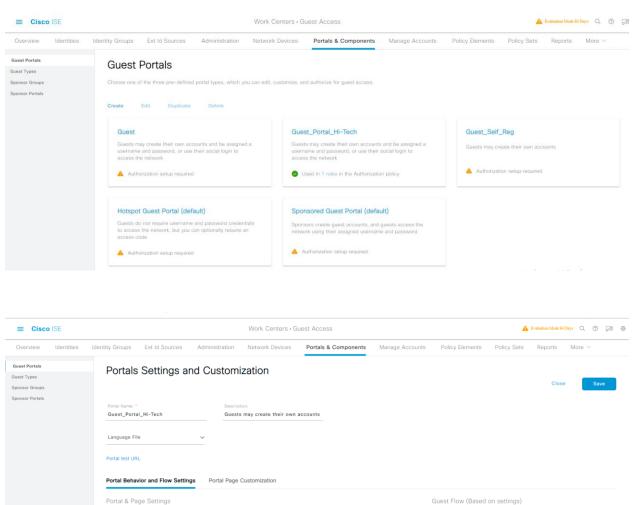
Here is the sample below how to create Condition Studio. Based on requirement we need to create **Conditions Studio**. We must select items for which conditions will be applied. Here we have selected the SSID contains **GUEST** for which users will get authenticated via RADIUS (ISE). And also, we need to select Device Type like for which devices the condition should be applied of ISE.



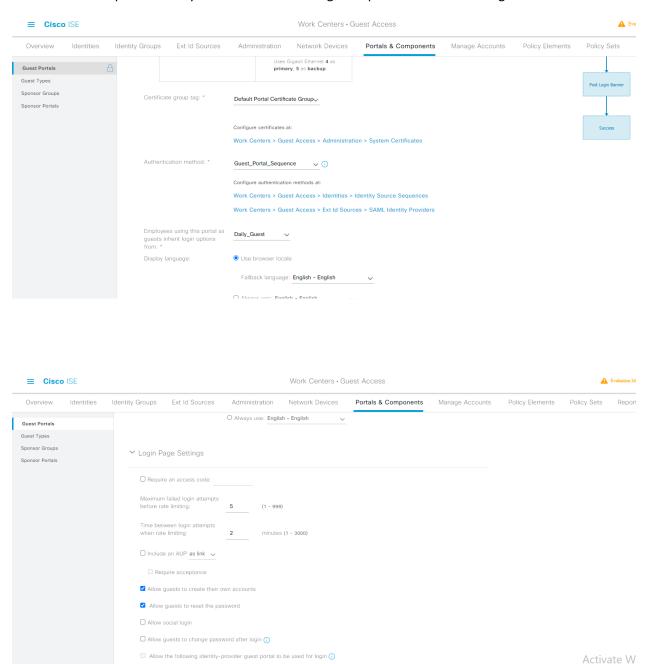


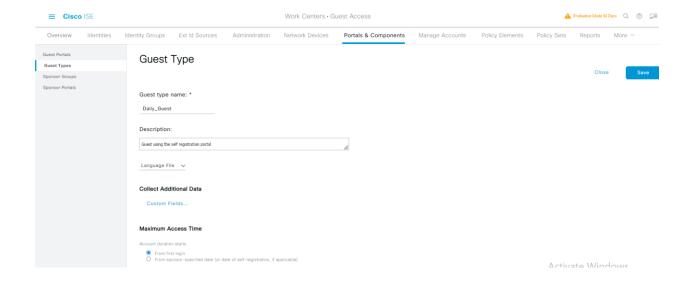
Activate Windows

Then we created a profile for 'Portal & Components' named Guest_Portal_Hi-Tech'

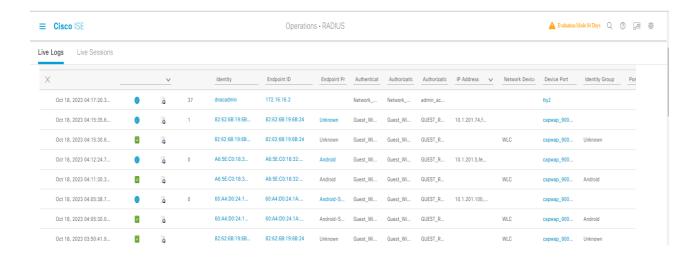


We have created a policy for the newly created group called **Daily_Guest** who can get for a limited time and also can fill up the form by his own and can change the password after first login.



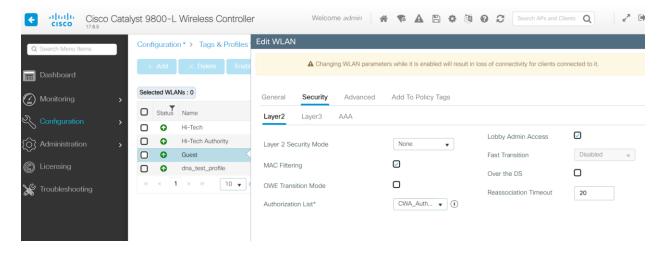


To see the log or live session, we need to go **Operations -> RADIUS -> Live Logs** like below. We can see MAC address and IP address of the users who have joined GUEST SSID are authenticated and authorized from ISE.

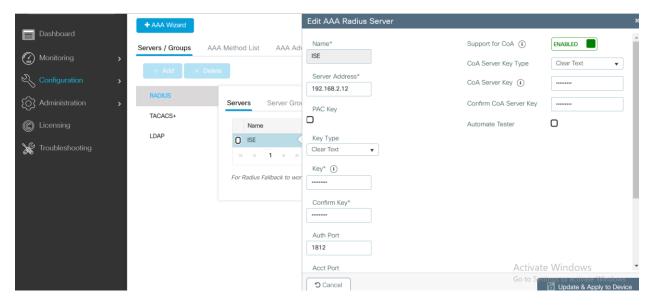


Cisco WLC Part:

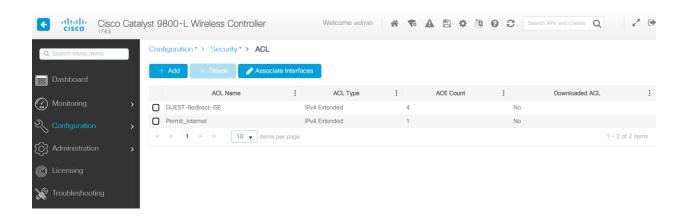
As a WLAN named GUEST is already created and assign a vlan for that SSID, we had to enable MAC Filter and assign the Authorization list created from WLC. **Configuration -> Tags & Profiles**



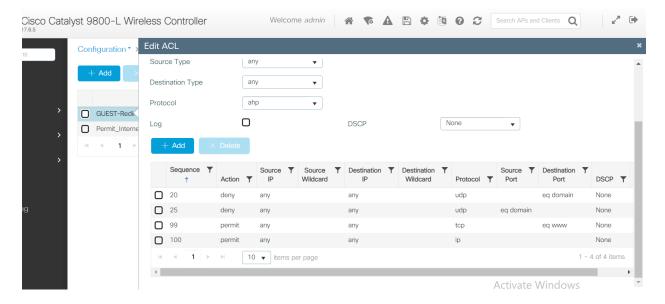
To integrate WLC with ISE, we had to select Radius server as ISE ip and enable Support for CoA. Same key need to be used which was provided in ISE. **Configuration -> Security -> AAA**



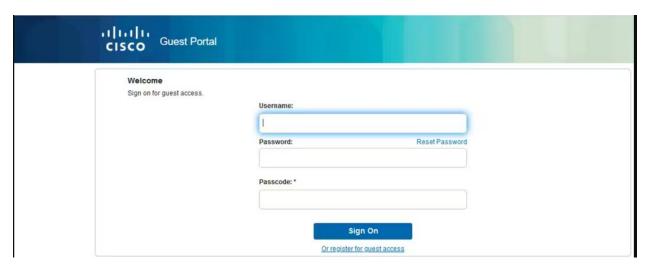
Finally we had to create two ACLs from **Configuration -> Security -> ACL** which was applied for the web redirection and getting the access to the network.



We had to give same ACL name in ISE so that when user will hit the GUEST SSID, it will get authenticated and authorized in ISE and will allow access to the user on the basis of ACL.



After completing all these process, user will get below page while trying to browse the internet using GUEST SSID.



Then the guest user needs to fill up the form containing and he will get a temporary password after giving the username and password they will get the access of internet.

