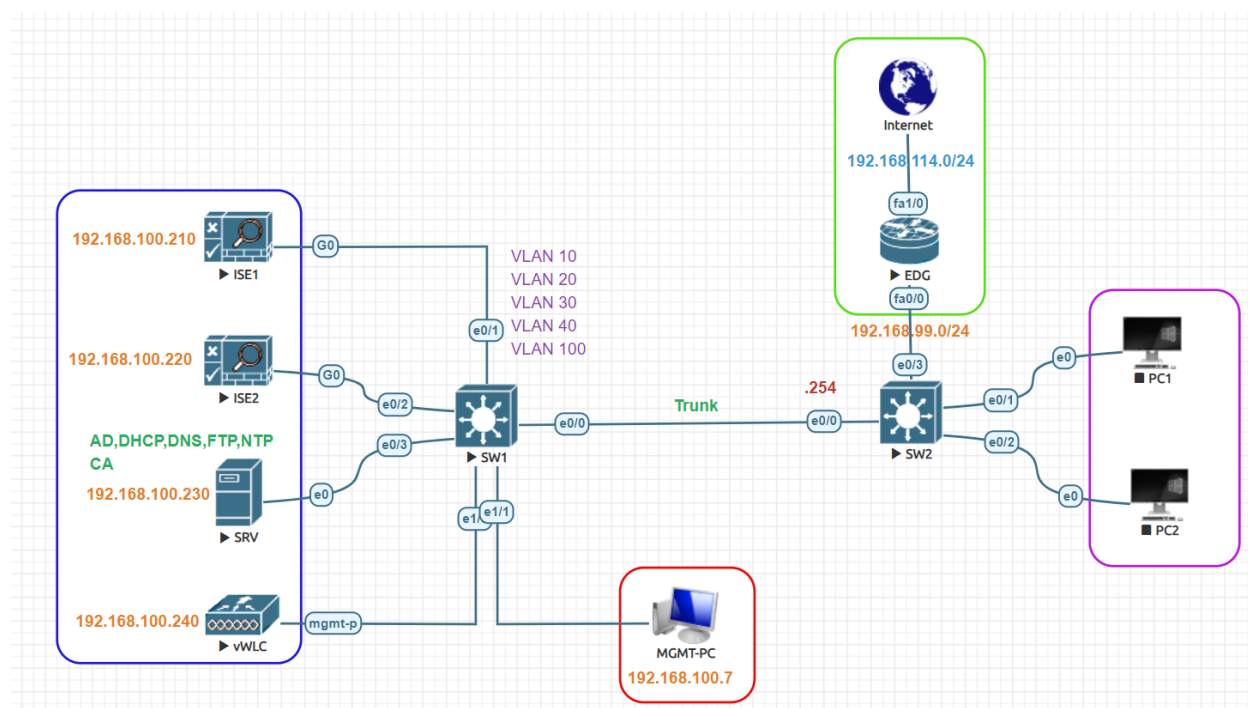


HA Configuration:

After you install a Cisco ISE node, all the default services provided by the Administration, Policy Service, and Monitoring personas run on it. This node will be in a standalone state. You must log in to the Admin portal of the Cisco ISE node to configure it. You cannot edit the personas or services of a standalone Cisco ISE node. You can, however, edit the personas and services of the primary and secondary Cisco ISE nodes. You must first configure primary ISE node and then register secondary ISE nodes to the primary ISE node. HA is based on Persona, not node.

Deployment Prerequisites:

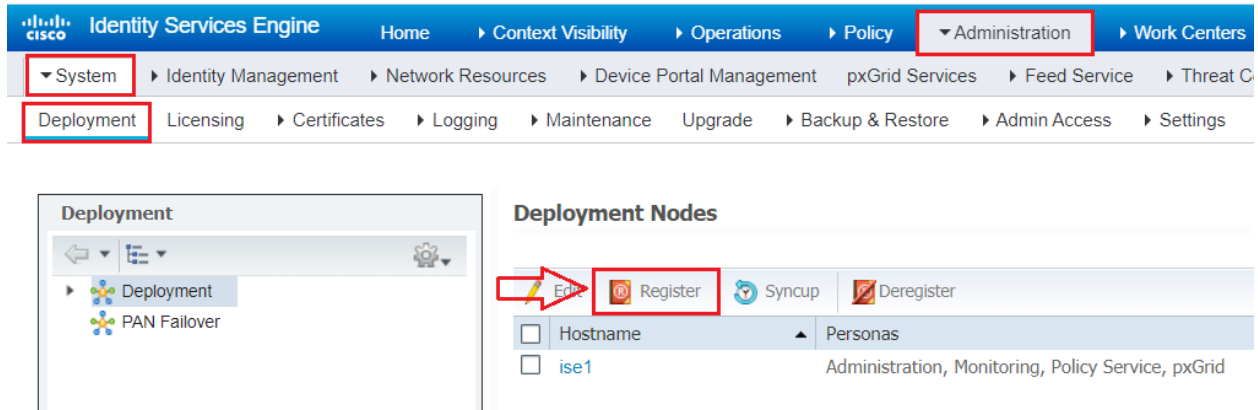
All ISE nodes must be on the same version and patch number. The primary ISE Node must not be in standalone mode. We must know the admin username/password of the new node. Each node must be able to resolve the hostname of every other node in DNS. E.g. ISE1 must be able to resolve ISE2, and the other way around. The primary ISE node must trust system certificate being presented by the new node. Create DNS Entries for ISE1 & ISE2, including reverse lookup.



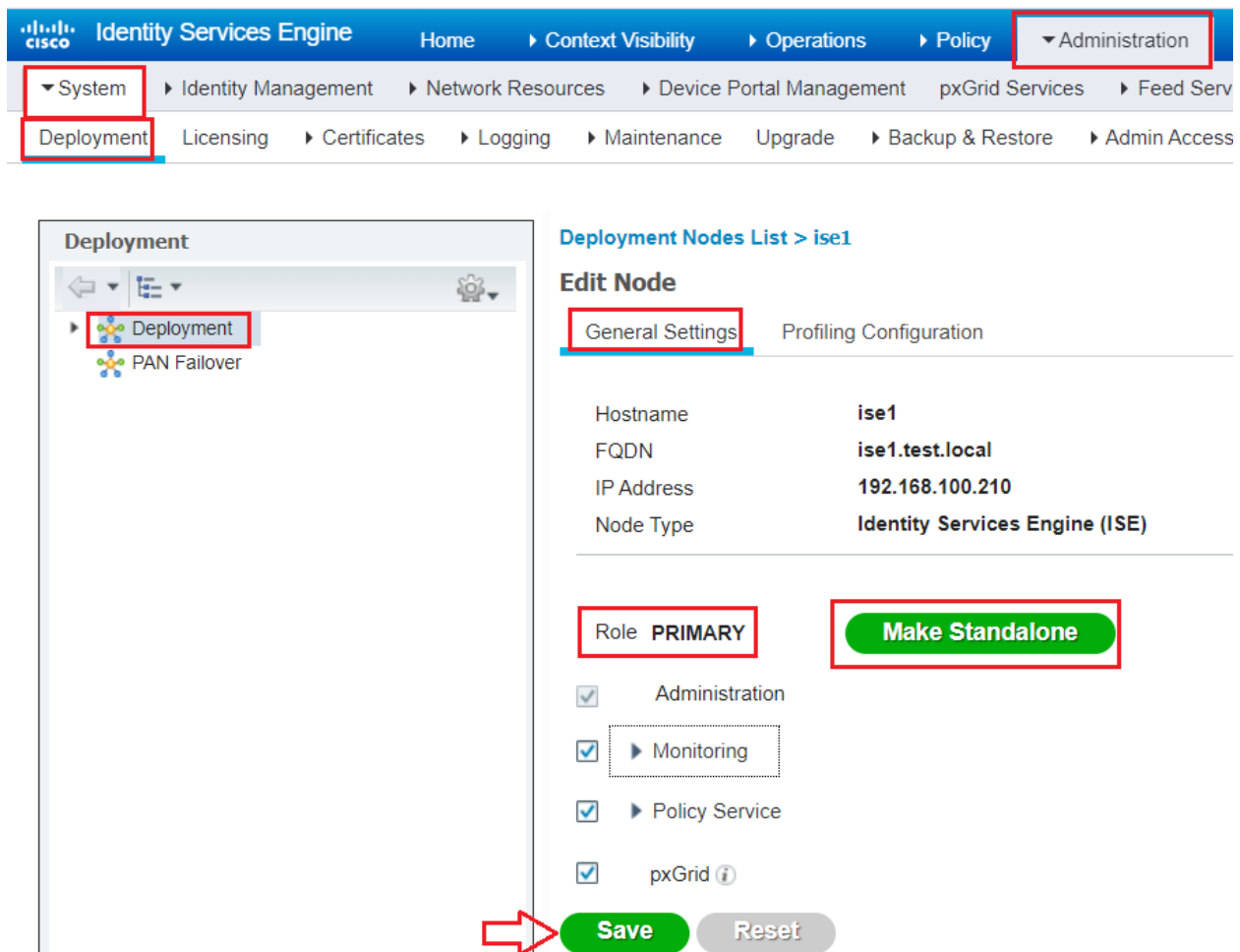
ISE1 FQDN	ise1.test.local
ISE2 FQDN	ise2.test.local
ISE1 IP Address	192.168.100.210
ISE2 IP Address	192.168.100.220
ISE1 and ISE2 Username/Password	Admin/Abc@12345
ISE1	Primary
ISE2	Secondary

Configure Primary PAN:

To set up distributed deployment, you must first configure a Cisco ISE node as Primary PAN. Choose **Administration > System > Deployment**. The Register button will be disabled initially. To enable this button, you must configure a Primary PAN.



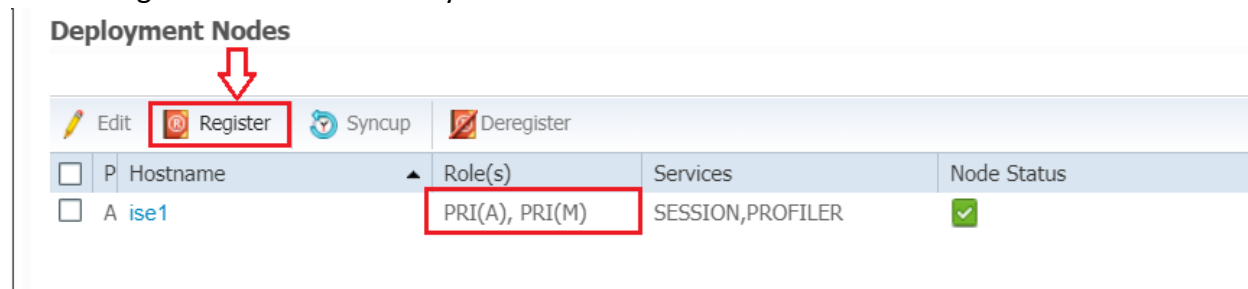
Check the check box next to the current node, and click **Edit**. Click **Make Primary** to configure your Primary PAN. Click **Save** to save the node configuration.



Register Secondary ISE Node:

You can register ISE nodes to Primary PAN to form a multi-node deployment. Nodes in a deployment other than the Primary PAN are referred to as secondary nodes. While registering a node, you can select the personas and services that must be enabled on the node. Registered nodes can be managed from the Primary PAN such as managing the node personas, services, certificates, licenses, applying patches, and so on.

Log in to the Primary PAN. Choose **Administration > System > Deployment**. Click **Register** to initiate registration of a secondary node.



Enter the DNS-resolvable fully qualified domain name (FQDN) of the standalone node that you are going to register. The FQDN of the Primary PAN and the node being registered must be resolvable from each other. Enter the UI-based administrator credentials for the secondary node in the **Username** and **Password** fields.

Deployment Nodes List > **Specify Hostname**

Register ISE Node - Step 1: Specify Node Host FQDN (hostname.domain-name) and Credential

Host FQDN*

ise2.test.local

User Name*

admin

Password*

.....

Next

Cancel

If the node uses a self-signed certificate that is not trusted, a certificate warning message is displayed with details about the certificate (such as, Issued-to, Issued-by, Serial number, and so on), which can be verified against the actual certificate on the node. You can select the **Import Certificate and Proceed** option to trust this certificate and proceed with registration.



Warning

The node you are trying to register uses a self-signed certificate which is not trusted. Are you sure you want to trust this certificate and proceed with registration?

If you are unsure, please click 'Cancel Registration'. Manually import relevant certificate chain of Node that is being registered into 'Trusted Certificates' and ensure 'Trust within ISE' checkbox is selected.

Please note that this certificate will by default be trusted only for authentication within ISE. If the same certificate needs to be used for other purposes (e.g. client authentication and syslog), please enable those options by editing the certificate under the 'Trusted Certificates' page.

Serial Number : 60 EE E0 25 00 00 00 C1 19 D1 91 AB 4D 08 EF
Issued to : CN=ise2.test.local
Issued by : CN=ise2.test.local
Issued On : Wed Jul 14 13:01:25 UTC 2021
Expires On : Mon Jul 13 13:01:25 UTC 2026
Signature Algorithm : SHA384withRSA
SHA-256 Fingerprint : 4B 2E 29 7C F3 D9 CF CE FC C9 7E AE 86 E1 1B 51 E9 85 B8 00 A9 D8 27 2F 22 64 DC 17 8A 50 C4 91
SHA-1 Fingerprint : E2 F3 77 6F 7A 74 D4 6C 71 FC 42 FB 78 A2 2A AC 75 7D 4D AC
MD5 Fingerprint : FC A8 E9 C3 68 2A BA 75 EE 98 0C BB FF 96 84 16

Cancel Registration

Import Certificate and Proceed

Select the personas and services to be enabled on the node, and then click **Submit**

Deployment

Deployment

PAN Failover

[Deployment Nodes List](#) > [Configure Node](#)
Register ISE Node - Step 2: Configure Node
General Settings

Hostnameise2

FQDNise2.test.local

IP Address192.168.100.220

Node TypeIdentity Services Engine (ISE)

Role **SECONDARY**

☒ Administration

☒ Monitoring

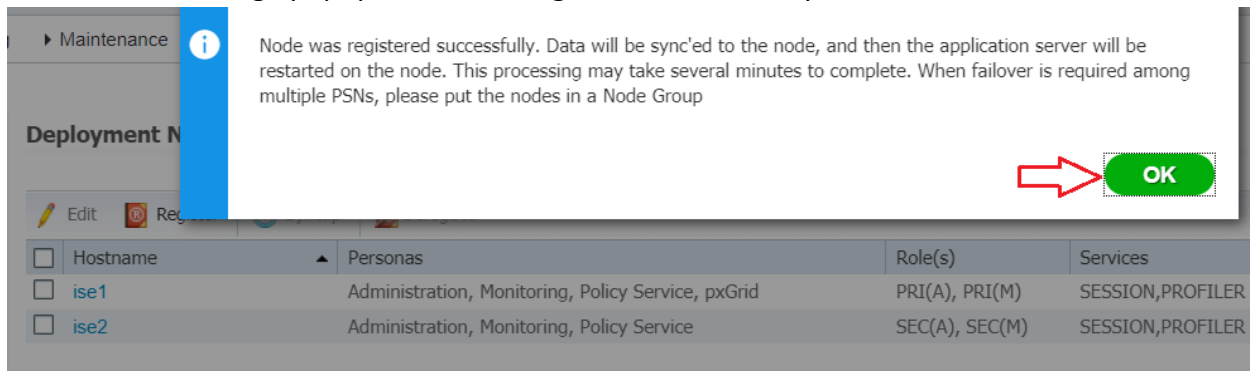
☒ Policy Service

☐ pxGrid

Submit


Cancel


Information message popup, Node was registered successfully. Click **OK**.





Registration process after registration, new node is being synchronized with deployment. It will take several minutes.



Deployment Nodes


 Edit

 Register

 Syncup

 Deregister

<input type="checkbox"/>	Hostname	Personas	Role(s)	Services	Node Status
<input type="checkbox"/>	ise1	Administration, Monitoring, Policy Service, pxGrid	PRI(A), PRI(M)	SESSION,PROFILER	
<input type="checkbox"/>	ise2	Administration, Monitoring, Policy Service	SEC(A), SEC(M)	SESSION,PROFILER	



In Progress

Registration process synchronization is done when status on both nodes is Connected.

Deployment Nodes

Edit
 Register
 Syncup
 Deregister

<input type="checkbox"/>	Hostname	Personas	Role(s)	Services	Node Status
<input type="checkbox"/>	ise1	Administration, Monitoring, Policy Service, pxGrid	PRI(A), PRI(M)	SESSION,PROFILER	✓
<input type="checkbox"/>	ise2	Administration, Monitoring, Policy Service	SEC(A), SEC(M)	SESSION,PROFILER	✓