



**Ganpat
University**

॥ विद्यया समाजोत्कर्षः ॥

**Institute of
Computer
Technology**

Name: Tushar Panchal

En.No: 21162101014

Sub: Virtualization

Branch: CBA

Batch:51

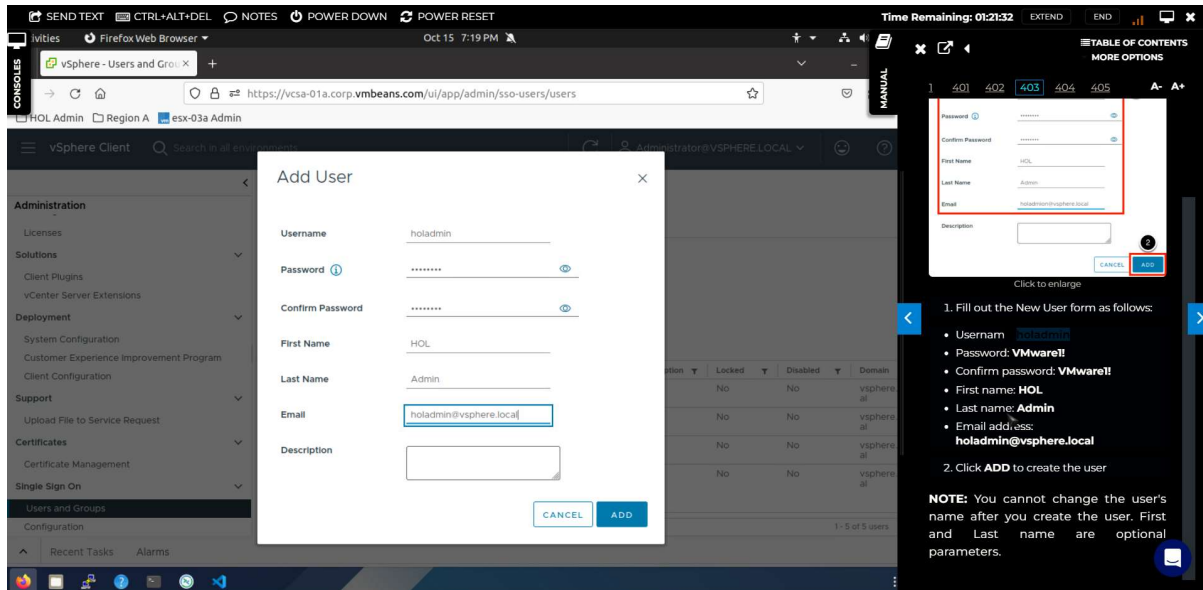
-----PRACTICAL 06-----

❖ Adding an ESXi Host to Active Directory.

1. Single Sign-On (SSO) users can be configured to access the vSphere Web Client like an admin user. But, if a machine with Platform Services Controller (PSC) is added to Active Directory Domain, the user is automatically added to SSO. Here is the current Active Directory :

The screenshot shows the vSphere Web Client interface. The main content area is titled 'Configuration' and has tabs for 'Identity Provider', 'Local Accounts', and 'Login Message'. The 'Identity Provider' tab is selected, showing a table of 'Identity Sources'. The table has two columns: 'Type' and 'Node'. Under 'Type', 'Active Directory Domain' is selected. Under 'Node', there is one entry: 'vcsa-01a.corp.vmbeans.com'. Below the table, a message states: 'The node didn't join any Active Directory.' On the right side, there is a sidebar with a 'TABLE OF CONTENTS' and a 'MANUAL' section. The 'MANUAL' section has a red warning icon and text: '1. Notice that vcsa-01a.corp.vmbeans.com is listed as an Active Directory under Active Directory Domain. However, notice the "The node didn't join any Active Directory" messaging as for this lab purposes, we did not include any Active Directory Sources.'

2. From the Administrator option in the top-left menu, access the SSO settings and add user with details to it :



Time Remaining: 01:21:32

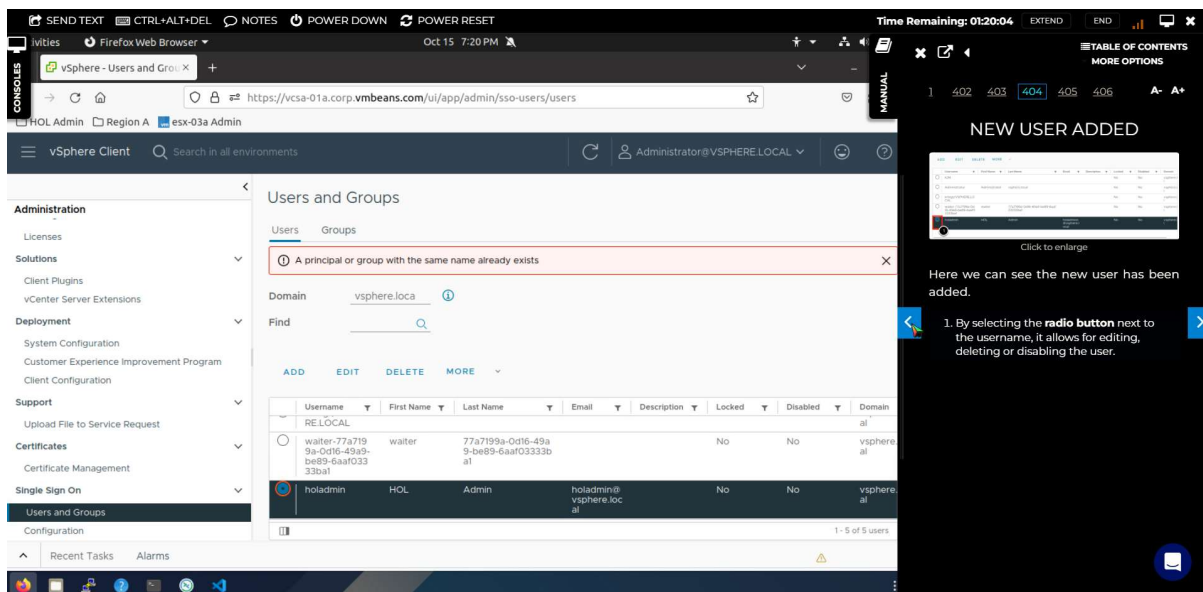
1. Fill out the New User form as follows:

- Username: **holadmin**
- Password: **VMware!**
- Confirm password: **VMware!**
- First name: **HOL**
- Last name: **Admin**
- Email address: **holadmin@vsphere.local**

2. Click **ADD** to create the user

NOTE: You cannot change the user's name after you create the user. First and Last name are optional parameters.

3. Now, the user is added to SSO as seen in the list :



Time Remaining: 01:20:04

NEW USER ADDED

Here we can see the new user has been added.

1. By selecting the **radio button** next to the username, it allows for editing, deleting or disabling the user.

Username	First Name	Last Name	Email	Description	Locked	Disabled	Domain
RELOCAL							all
waiter-77a7199-9a-0d16-49a9-b689-6aa10333ba1	waiter	77a7199a-0d16-49a9-b689-6aa10333ba1			No	No	vsphere.all
holadmin	HOL	Admin	holadmin@vsphere.local		No	No	vsphere.all

4. Also groups can be configured. Add a group named HOL Group with the newly added SSO user in it :

CREATE THE NEW GROUP

1. For the Group Name, type **HOL Group**
2. Add the user that was previously created by typing **holadmin**
3. Click **holadmin** from the drop-down list
4. Click the **Add** button

5. As seen, the group is added and members can be added or removed :

ADD MEMBERS TO A VCENTER SINGLE SIGN ON GROUP IN THE VSPHERE CLIENT

Members of a vCenter Single Sign On group can be users or other groups from one or more identity sources. Members of a group are called principals. Groups listed on the Groups tab in the vSphere Client are internal to Single Sign On and are part of the identity source System-Domain. You can add group members from other domains to a local group. You can also nest groups.

Group Name	Description
Administrators	
AnalyticsService Administrators	Analytics Service Administrators
AutoUpdate	Users allowed to perform update related operations
CAAdmins	
ComponentManager Administrators	Component Manager Administrators
DCAdmins	
DCClients	
ExternalIDUsers	Well-known external IDP users' group, which registers external IDP users as guests.
HOL Group	

» Conclusion :

In this practical, we demonstrated the process of adding an ESXi host to Active Directory for enhanced security and user management within a virtualization environment. The key steps included:

1. Configuring Single Sign-On (SSO) to grant users access to the vSphere Web Client with admin privileges.
2. Integrating a machine with the Platform Services Controller (PSC) into the Active Directory domain, automatically adding users to SSO.
3. Adding users to the SSO system to enable them to access the vSphere Web Client.
4. Creating and configuring groups, such as the HOL Group, and adding SSO users to these groups for easier user management.
5. Demonstrating the ability to add or remove members from these groups as needed.

By following these steps, administrators can efficiently manage user access, enhance security, and streamline user management in a virtualized environment using Active Directory integration.