CST8912 – Cloud Solution Architecture

Graded Lab Activity #5

Lab 5

CST8912_011

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Submitted to: Prof. Tanishq Bansal

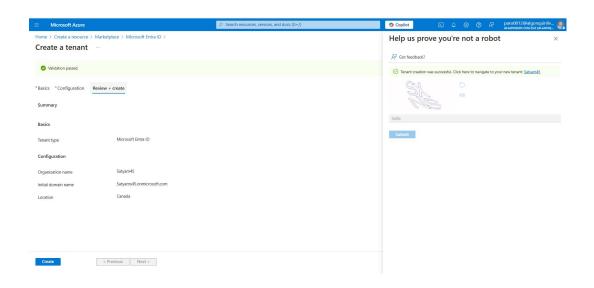
Introduction:

Through this lab, one can comprehend how to implement Microsoft Entra ID (Azure AD) for identity and access management in the cloud. The tasks that need to be carried out consist of provisioning users, creating groups with dynamic membership, prefixing management groups, assigning roles, and applying security policies. The aim is to create a real cloud administration environment.

Screenshots:

Step: 1

Choose the organization name and domain name and location as "Canada"



Navigate back to the Users - All users blade, and then click + New user

o **user principal name:** 8912user1

o **display name**: 8912user1

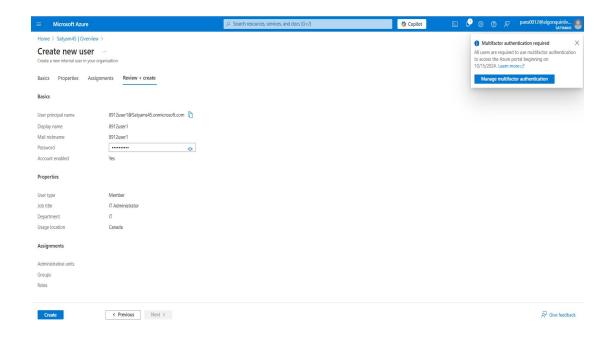
Auto-generate password: checked

Account enabled: checked

Job title (Properties tab): IT Administrator

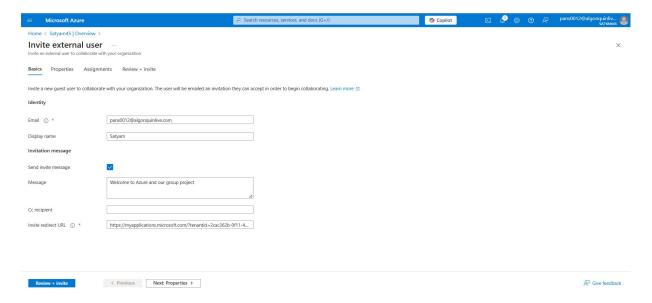
Department (Properties tab): IT

Usage location: Canada



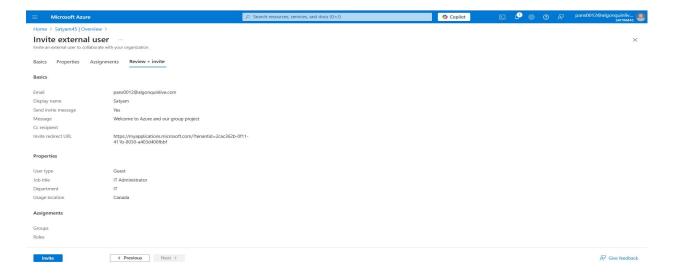
In the New user drop-down select Invite an external user.

| Setting | Value |
|---------------------|--------------------------|
| Email | your email address |
| Display name | your name |
| Send invite message | check the box |
| Message | Welcome to Azure and our |
| | group project |

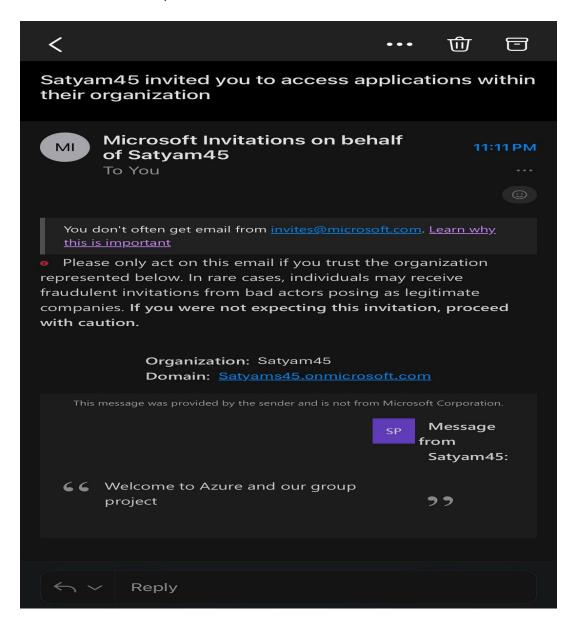


Move to the Properties tab. Complete the basic information, including these fields.

| Setting | Value |
|---------------------------------|------------------|
| Job title | IT Administrator |
| Department | IT |
| Usage location (Properties tab) | Canada |

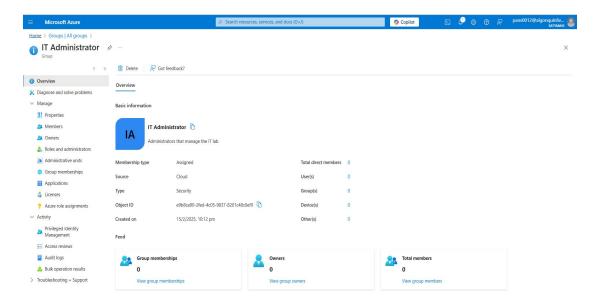


Refresh the page and confirm the invited user was created. You should receive the invitation email shortly.

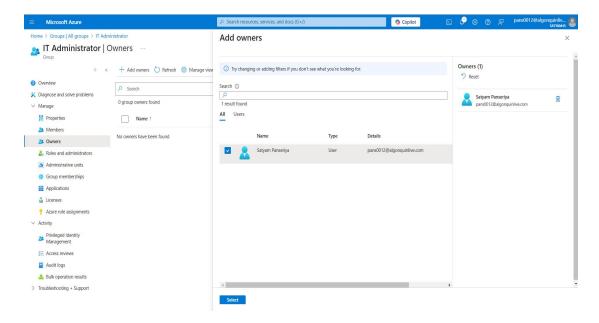


Task 2:

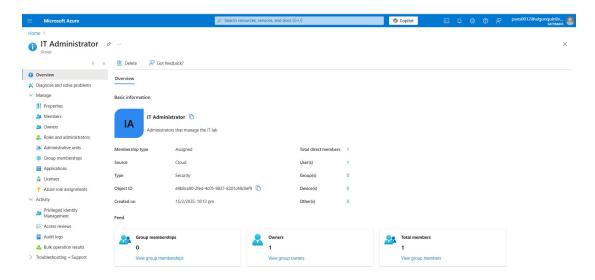
Screenshot of create assigned group.



In the Add owners page, search for and select yourself (shown in the top right corner) as the owner. Notice you can have more than one owner.



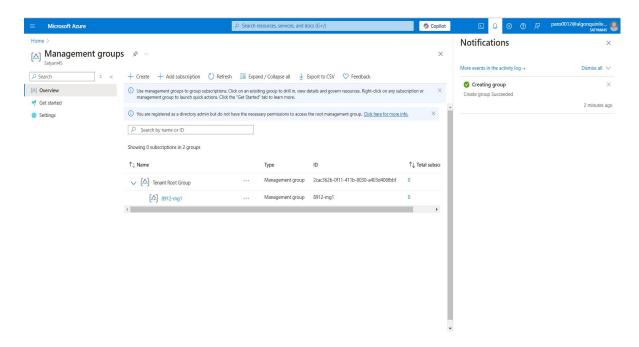
Refresh the page and ensure your group was created.



Task 3:

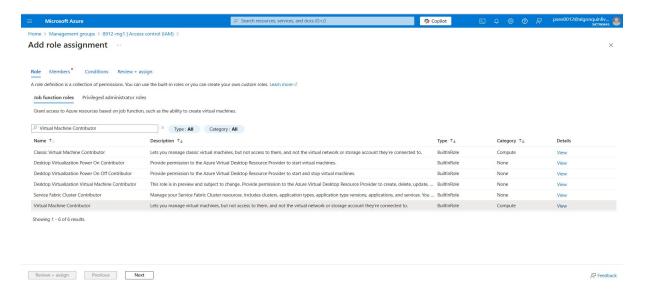
Refresh the management group page to ensure your new management group displays

| Setting | Value |
|-------------------------------|--|
| Management group ID | 8912-mg1 (must be unique in the directory) |
| Management group display name | 8912-mg1 |

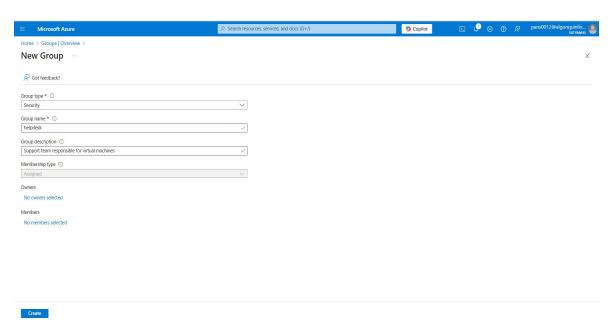


Task 4:

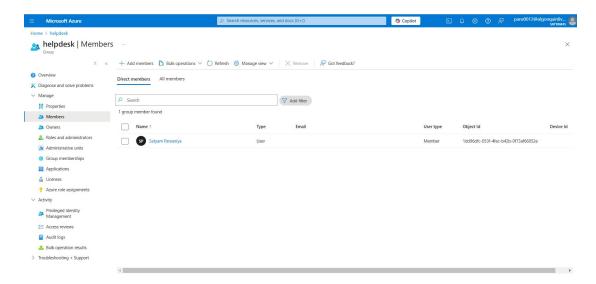
On the Add role assignment blade, search for and select the Virtual Machine Contributor. The Virtual machine contributor role lets you manage virtual machines, but not access their operating system or manage the virtual network and storage account they are connected to. This is a good role for the Help Desk. Select Next.



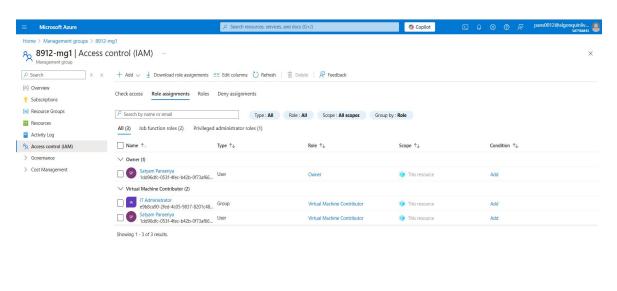
Search for and select the helpdesk group. Click Select.



Click Review + assign twice to create the role assignment.

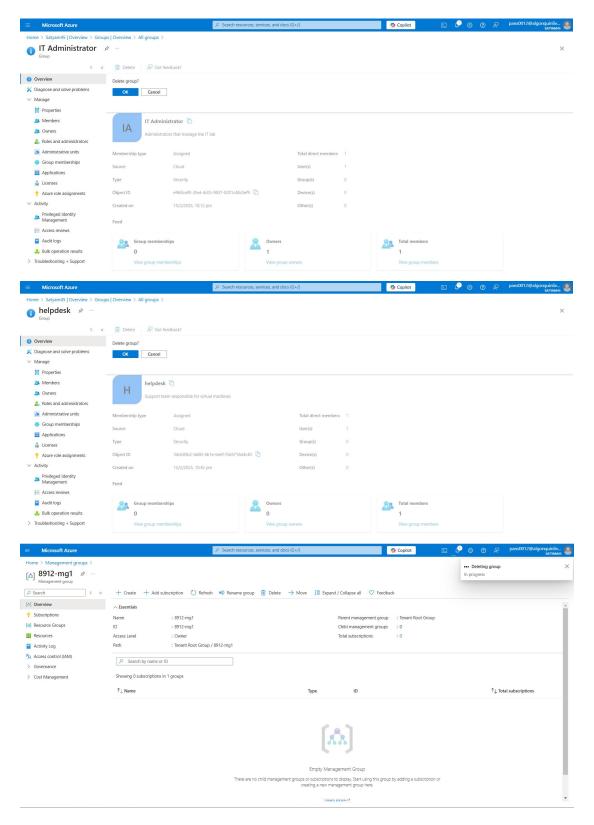


Continue on the Access control (IAM) blade. On the Role assignments tab, confirm the helpdesk group has the Virtual Machine Contributor role.



Task 5:

Clean up the resources created during the lab and document all the steps in the lab report



Conclusion:

This tuition involved manipulative sentient practice during Microsoft Entra ID and Azure role-based access control. Made of the principles of cloud security, such as identity management, automation, dynamic access control, and role-based permissions is the one that best prepared us. This will ensure that we are accountable for the resources used for optimal cost management and security in cloud environments.