

## INTRODUCTION TO CLOUD COMPUTING

### Lab Task 01 (Manage Microsoft Entra ID Identities)

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### Task 1: Create and configure user accounts

The screenshot shows the Microsoft Azure Default Directory Overview page. The top navigation bar includes 'Microsoft Azure', 'Search resources, services, and docs (G+)', 'Copilot', and a sign-in link for 'bsse2280138@szabist.pk'. The main content area displays the directory's basic information:

Name	Default Directory	Users	1
Tenant ID	329e04f2-997f-4058-b540-f8d01de78066	Groups	0
Primary domain	bsse2280138szabist.onmicrosoft.com	Applications	0
License	Microsoft Entra ID Free	Devices	0

Below this, there is a section for 'Basic information' and an 'Alerts' section. A sidebar on the left provides links for 'Overview', 'Preview features', 'Diagnose and solve problems', 'Manage', 'Monitoring', and 'Troubleshooting + Support'. The bottom of the page includes a search bar and a note about adding favorites.

The screenshot shows the Microsoft Azure Manage tenants page. The top navigation bar includes 'Microsoft Azure', 'Search resources, services, and docs (G+)', 'Copilot', and a sign-in link for 'bsse2280138@szabist.pk'. The main content area shows the 'Current tenant: Default Directory' and a table of tenants:

Organization name	Domain name	Tenant type	Organization ID	Favorite
Default Directory (Default)	bsse2280138szabist.onmicrosoft.com	Microsoft Entra ID	329e04f2-997f-4058-b540-f8d01de78...	

At the top of the tenant list, there are buttons for 'Create', 'Refresh', 'Columns', 'Switch', 'Delete', 'Leave tenant', 'Make default tenant', 'More information', and 'Got feedback?'. There is also a 'Search tenants' input field and a 'Add filters' button.

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- Create a new user

The image consists of three vertically stacked screenshots of the Microsoft Azure portal, illustrating the steps to create a new user in Microsoft Entra ID.

**Screenshot 1: Create new user - Basics**

This screenshot shows the 'Create new user' form in the 'Basics' tab. The user principal name is set to 'az104-user1'@'bsse2280138szabist.onmicrosoft.com'. The mail nickname is also 'az104-user1', with the 'Derive from user principal name' checkbox checked. The display name is 'az104-user1'. A password 'Yogo835579' is entered, and the 'Auto-generate password' checkbox is checked. The account is enabled. At the bottom, there are 'Review + create' and 'Next: Properties >' buttons.

**Screenshot 2: Create new user - Review + create**

This screenshot shows the 'Review + create' step. It displays the user information again: User principal name 'az104-user1@bsse2280138szabist.onmicrosoft.com', Display name 'az104-user1', Mail nickname 'az104-user1', and Password '\*\*\*\*\*'. The account is enabled. There is a 'Give feedback' link at the top right.

**Screenshot 3: Users - All users**

This screenshot shows the 'Users' blade in the Azure portal. The left sidebar lists audit logs, sign-in logs, deleted users, password reset, user settings, bulk operation results, and support requests. The main area shows a table of users. One user, 'Arha Zainab', is highlighted with a pink circle. The table includes columns for Display name, User principal name, User type, Is Agent, On-premises sync, Identities, Company name, and Creation type. The table shows two users found: 'Arha Zainab' and 'az104-user1'.

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- **Invite an external user**

The screenshot shows the Microsoft Azure portal interface for inviting an external user. The top navigation bar includes 'Microsoft Azure', a search bar, and various icons. The main page title is 'Invite external user'. Below it, there's a sub-page title 'Invite an external user to collaborate with your organization'. The 'Review + invite' tab is selected. The 'Basics' section contains fields for Email (arihazeb@gmail.com), Display name (Ariha Zainab), Send invite message (Yes), Message (Welcome to Azure and our group project), and Invite redirect URL (https://myapplications.microsoft.com/?tenantid=329e04f2-997f-4058-b540-fbd01de78066). The 'Properties' section shows User type (Guest), Job title (IT Lab Administrator), Department (IT), and Usage location (United States). The 'Assignments' section is currently empty. At the bottom, there are 'Invite' and 'Next >' buttons.



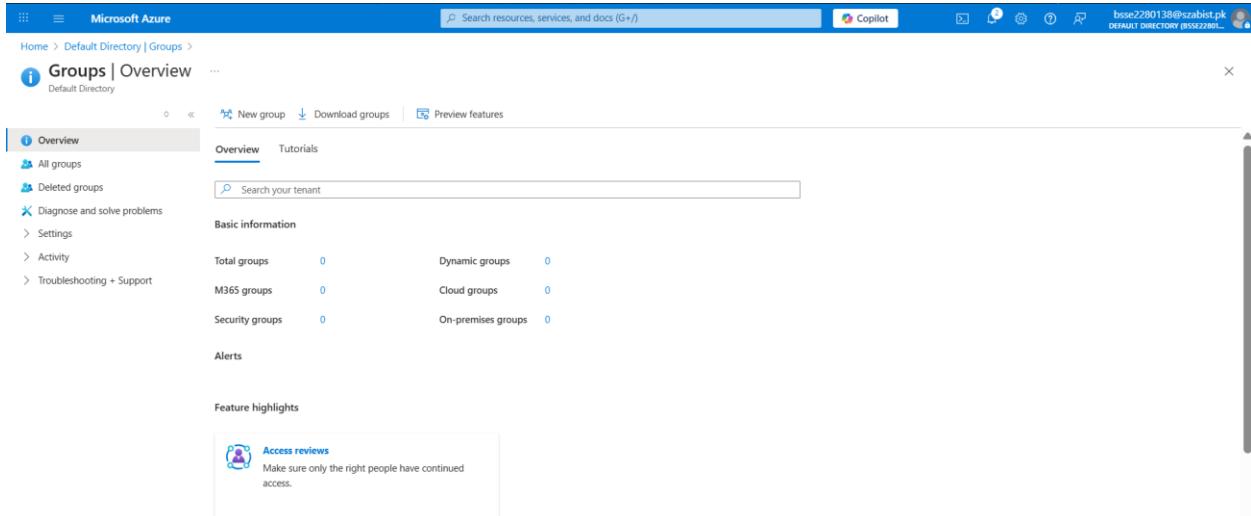
Successfully invited user Ariha Zainab

The screenshot shows a Gmail inbox with 196 messages. The subject of the top email is 'Default Directory invited you to access applications within their organization'. The sender is 'Microsoft Invitations on behalf of Default Directory <invites@microsoft.com>' and it was sent '3:17PM (0 minutes ago)'. The email body contains a warning about trusting the organization, the sender's information ('Organization: Default Directory, Domain: bse2280138szabst.onmicrosoft.com'), and a message from 'AZ' that says 'Welcome to Azure and our group project'. There is also a note at the bottom: 'If you accept this invitation, you'll be sent to https://myapplications.microsoft.com/?tenantid=329e04f2-997f-4058-b540-fbd01de78066'. Below the email are standard Gmail interaction buttons for Reply, Forward, and Delete.

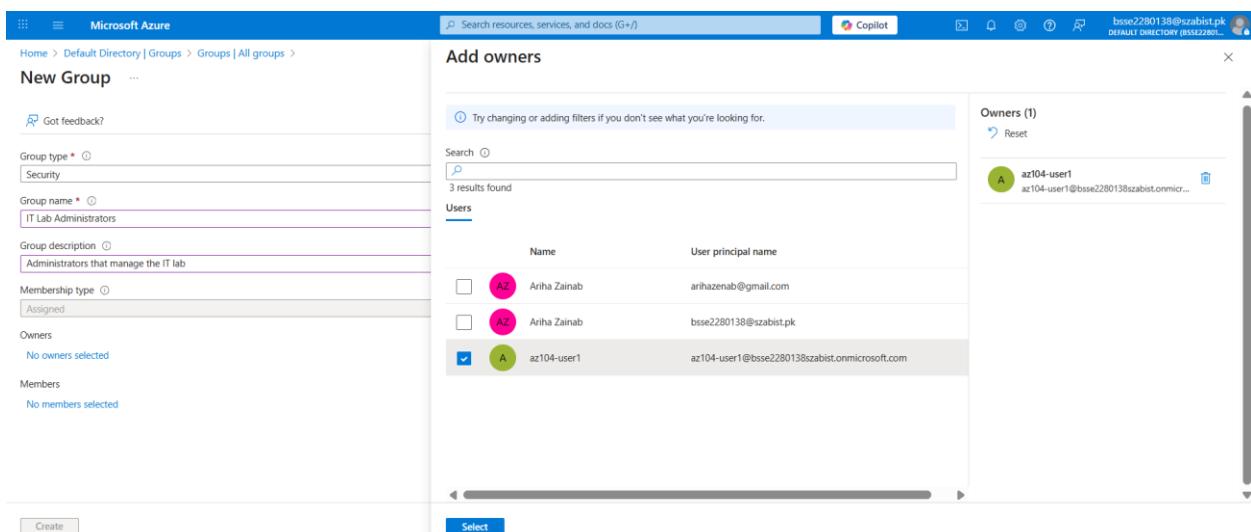
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#### Task 2: Create groups and add members



The screenshot shows the Microsoft Azure Groups Overview page. The left sidebar includes links for Overview, All groups, Deleted groups, Diagnose and solve problems, Settings, Activity, and Troubleshooting + Support. The main area displays basic information: Total groups (0), Dynamic groups (0), M365 groups (0), Cloud groups (0), Security groups (0), and On-premises groups (0). A Feature highlights section for 'Access reviews' is shown, stating: 'Make sure only the right people have continued access.'

The screenshot shows the Microsoft Azure New Group page at the 'Add owners' step. The left sidebar contains fields for Group type (Security), Group name (IT Lab Administrators), Group description (Administrators that manage the IT lab), and Membership type (Assigned). The main area shows a search bar and a list of users: Arisha Zainab (ariha.zainab@gmail.com) and az104-user1 (az104-user1@bsse2280138szabist.onmicrosoft.com). The user 'az104-user1' is selected, indicated by a checked checkbox and a green circular icon.

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**Add members**

Try changing or adding filters if you don't see what you're looking for.

Search: 102 results found

All Users Groups Devices Enterprise applications

Name	Type	Details
AR	AAD Request Verification Service - P	Enterprise application
<input checked="" type="checkbox"/> AZ	Ariha Zainab	User
A	AADReporting	Enterprise application
<input type="checkbox"/> AZ	Ariha Zainab	User
<input type="checkbox"/> A	AIRS	Enterprise application
<input checked="" type="checkbox"/> A	az104-user1	User

Selected (2)

Ariha Zainab arihazainab@gmail.com

az104-user1 az104-user1@bsse2280138szabist.onmicrosoft.com

**Groups | All groups**

New group Download groups Refresh Manage view Delete Got feedback?

Overview All groups Deleted groups Diagnose and solve problems Settings Activity Troubleshooting + Support

Microsoft Entra has a simpler, integrated experience for managing all your Identity and Access Management needs. Try the new Microsoft Entra admin center!

Search mode Contains 1 group found

Name	Object ID	Group type	Membership type	Email
IT Lab Administrators	8a824b8d-3c41-44d7-86f1-f1c85b42fcfa2	Security	Assigned	

**IT Lab Administrators**

Delete Got feedback?

Overview Diagnose and solve problems Manage Activity Troubleshooting + Support

**Basic information**

IT Lab Administrators Administrators that manage the IT lab

Membership type	Assigned	Total direct members	2
Source	Cloud	User(s)	2
Type	Security	Group(s)	0
Object ID	8a824b8d-3c41-44d7-86f1-f1c85b42fcfa2	Device(s)	0
Created on	12/11/2025, 3:30 PM	Other(s)	0

Feed

Group memberships: 0 View group memberships

Owners: 1 View group owners

Total members: 2 View group members

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Microsoft Azure

Home > Default Directory | Groups > Groups | Overview > All groups > IT Lab Administrators

IT Lab Administrators | Owners ...

Add owners Refresh Manage view Remove Got feedback?

Overview Diagnose and solve problems Manage Properties Members Owners Roles and administrators Administrative units Group memberships Applications Licenses Azure role assignments Activity Troubleshooting + Support

Search Add filter

1 group owner found

Name	Type	Email	User type	Object Id
az104-user1	User		Member	261f8847-e53b-425a-8fb6-1c20dafc62a7

Microsoft Azure

Home > Default Directory | Groups > Groups | Overview > All groups > IT Lab Administrators

IT Lab Administrators | Members ...

Add members Bulk operations Refresh Manage view Remove Got feedback?

Overview Diagnose and solve problems Manage Activity Troubleshooting + Support

Direct members All members

Search Add filter

2 group members found

Name	Type	Email	User type	Object Id	Device Id
Ariha Zainab	User	arihazenab@gmail.com	Guest	8be87ca7-b053-471b-88eb-25987f4ce558	
az104-user1	User		Member	261f8847-e53b-425a-8fb6-1c20dafc62a7	