

Lab 5

CST8912_011

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Submitted to :

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Practice using Azure AD

Introduction or Purpose

In order to allow users to authenticate by using Azure AD, you have been tasked with provisioning users and group accounts. Membership of the groups should be updated automatically based on the user's job titles. You also need to create a test Azure AD tenant with a test user account and grant that account limited permissions to resources in the Azure subscription.

Microsoft Entra ID is a cloud-based identity and access management service. Microsoft Entra ID enables your employees to access external resources, such as Microsoft 365, the Azure portal, and thousands of other SaaS applications. Microsoft Entra ID also helps them access internal resources like apps on your corporate intranet, and any cloud apps developed for your own organization.

Steps covered in the lab

Task 1:

Aim:

Create and configure Azure AD users for Canada central region

Steps:

1. Go to azure portal and search for azure active directory
2. Create a tenant and choose tenant type "Microsoft Entra ID"
3. Choose the organization name and domain name and location as "Canada"
4. Once tenant is created, search **Microsoft Entra ID in portal**
5. On the Microsoft Entra ID blade, scroll down to the Manage section, click User settings, and review available configuration options.
6. On the Microsoft Entra ID blade, in the Manage section, click Users, and then click your user account to display its Profile settings
7. Navigate back to the Users - All users blade, and then click + New user
 - a. **user principal name:** 8912user1
 - b. **display name:** 8912user1
 - c. Auto-generate password: **checked**
 - d. Account enabled: checked
 - e. Job title (Properties tab): **IT Administrator**
 - f. Department (Properties tab): **IT**
 - g. **Usage location:** Canada
8. In the list of users, click the newly created user account to display its blade

9. Review the options available in the Manage section and note that you can identify the roles assigned to the user account as well as the user account's permissions to Azure resources.
10. Invite an external user
11. 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

12. 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

13. Select Review + invite, and then Invite.
14. Refresh the page and confirm the invited user was created. You should receive the invitation email shortly.

Task 2:

Aim:

In this task, you create a group account. Group accounts can include user accounts or devices. These are two basic ways members are assigned to groups: Statically and Dynamically. Static groups require administrators to add and remove members manually. Dynamic groups update automatically based on the properties of a user account or device. For example, job title.

Steps:

1. In the Azure portal, search for and select Groups.
2. Take a minute to familiarize yourself with the group settings in the left pane.
3. Expiration lets you configure a group lifetime in days. After that time the group must be renewed by the owner.
4. Naming policy lets you configure blocked words and add a prefix or suffix to group names.

5. In the All groups blade, select + New group and create a new group.

Setting	Value
Group type	Security
Group name	IT Administrator
Group description	Administrators that manage the IT lab
Membership type	Assigned

Note: An Entra ID Premium P1 or P2 license is required for dynamic membership. If other Membership types are available, the options will show up in the drop-down.

6. Screenshot of create assigned group.
7. Select No owners selected.
8. 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.
9. Select No members selected.
10. In the Add members pane, search for and select the 8912user1 and the guest user you invited. Add both of the users to the group.
11. Select Create to deploy the group.
12. Refresh the page and ensure your group was created.
13. Select the new group and review the Members and Owners information.

Task 3:

Aim:

In this task, you will create and configure management groups. Management groups are used to logically organize and segment subscriptions. They allow for RBAC and Azure Policy to be assigned and inherited to other management groups and subscriptions. For example, if your organization has a dedicated support team for Europe, you can organize European subscriptions into a management group to provide the support staff access to those subscriptions (without providing individual access to all subscriptions).

Steps:

1. Sign in to the Azure portal - <https://portal.azure.com>.
2. Search for and select Microsoft Entra ID.

3. In the Manage blade, select Properties.
4. Review the Access management for Azure resources area. Ensure you can manage access to all Azure subscriptions and management groups in the tenant.
5. Search for and select Management groups.
6. On the Management groups blade, click + Create.
7. Create a management group with the following settings. Select Submit when you are done.
8. 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

Step 4:

Aim:

Review and assign a built-in Azure role.

Steps:

1. Select the 8912-mg1 management group.
2. Select the Access control (IAM) blade, and then the Roles tab.
3. Scroll through the built-in role definitions that are available. View a role to get detailed information about the Permissions, JSON, and Assignments. You will often use owner, contributor, and reader.
4. Select + Add, from the drop-down menu, select Add role assignment.
5. 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.
6. On the Members tab, Select Members.
7. Note: The next step assigns the role to the helpdesk group. If you do not have a Help Desk group, take a minute to create it.
8. Search for and select the helpdesk group. Click Select.
9. Click Review + assign twice to create the role assignment.
10. Continue on the Access control (IAM) blade. On the Role assignments tab, confirm the helpdesk group has the Virtual Machine Contributor role.

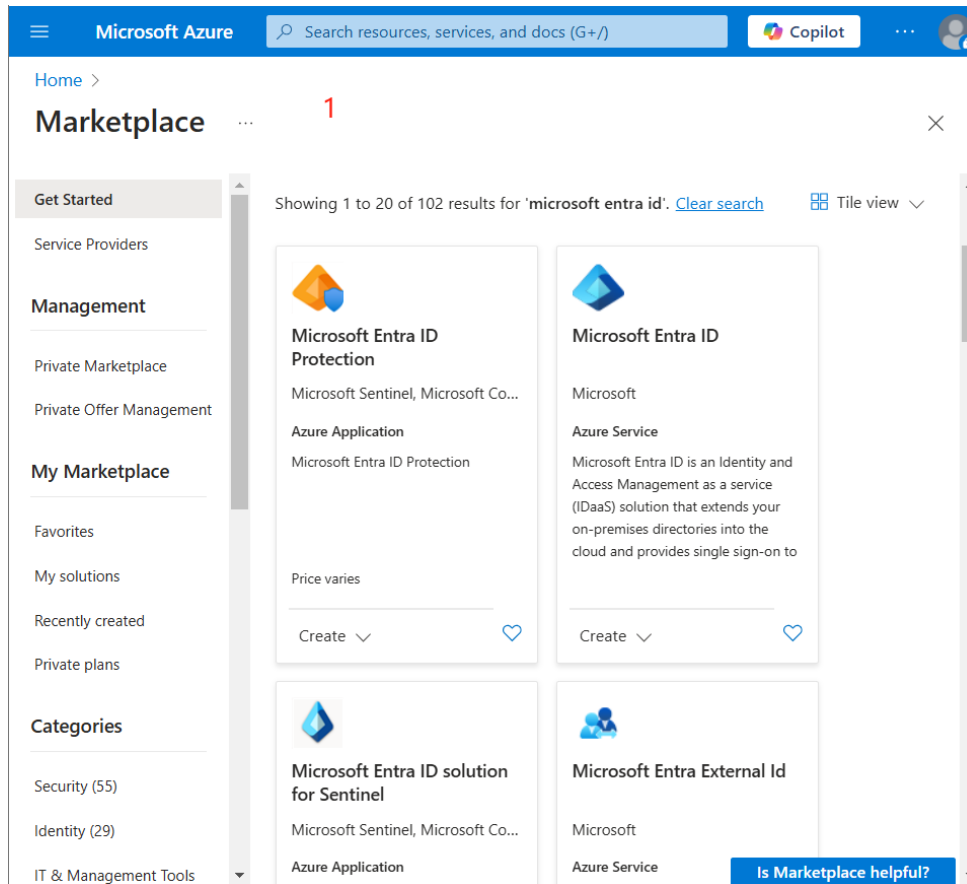
Task 5:

Aim:

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

Results

Task 1:



Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > Marketplace >

Create a tenant

2

×

* Basics

* Configuration

Review + create

Microsoft Entra ID and Azure AD B2C enable users to access applications published by your organization, and share same administration experiences. [Learn more](#)

Tenant type

Select a tenant type *

☒ Microsoft Entra ID

☐ Azure AD B2C

[Help me choose...](#)

Review + create

< Previous

Next : Configuration >

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > Marketplace >

Create a tenant

3

×

* Basics

* Configuration

Review + create

Directory details

Configure your new directory

Organization name *

①

CST8912demo

✓

Initial domain name *

①

CST8912demo2025

✓

CST8912demo2025.onmicrosoft.com

Location ①

Canada

▼

✓

Geographic location - United States

The location selected above will determine the geographic location where Microsoft Entra ID will store your Core Store data only. To determine where Microsoft will store or process your Microsoft Entra ID data, see [Microsoft Entra ID Data residency](#).

Review + create

< Previous

Next : Review + create >

Microsoft Azure Search resources, services, and docs (G+/) Copilot

Home > CST8912demo | Overview 4

Overview

Preview features

Diagnose and solve problems

Manage

Monitoring

Troubleshooting + Support

To improve your experience, we're experimenting with your Home page. Click "Got feedback?" to tell us what you think.

Overview Monitoring Properties Recommendations

Search your tenant

Basic information

Name	CST8912demo
Tenant ID	6a101cbc-ac4b-4b42-a004-84eebc9ac91f
Primary domain	CST8912demo2025.onmicrosoft.com
License	Microsoft Entra ID Free
Users	1
Groups	0
Applications	0

Microsoft Azure Search resources, services, and docs (G+/) Copilot

Home > CST8912demo CST8912demo | User settings 5

Refresh Got feedback?

Identity Governance

Application proxy

Custom security attributes

Licenses

Cross-tenant synchronization

Microsoft Entra Connect

Custom domain names

Mobility (MDM and WIP)

Password reset

Company branding

User settings

Properties

Security

Monitoring

Default user role permissions

Learn more

Users can register applications Yes

Restrict non-admin users from creating tenants No

Users can create security groups Yes

Guest user access

Learn more

Guest user access restrictions

Guest users have the same access as members (most inclusive)

Guest users have limited access to properties and memberships of directory objects

Guest user access is restricted to properties and memberships of

Save Cancel

<https://aka.ms/aadguestpermissions>

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > CST8912demo | Overview >

Yuntian Du

User

6

Search

Edit properties

Delete

Refresh

Overview

Audit logs

Sign-in logs

Diagnose and solve problems

Custom security attributes

Assigned roles

Administrative units

Groups

Applications

Licenses

Devices

Azure role assignments

Authentication methods

New support request

YD

Yuntian Du

du000086_algonquinlive.com#EXT#@CST8912dem...

Member

User principal name

du000086_algonquinlive.com#ED

Object ID

53b68008-726a-4661-a012-0f05

Created date time

Feb 12, 2025, 2:53 PM

User type

Member

Identities

ExternalAzureAD

Group memberships

0

Applications

0

Assigned roles

1

Assigned licenses

0

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home >

CST8912demo | Overview

7-1

Overview

Preview features

Diagnose and solve problems

Manage

Users

Groups

External Identities

Roles and administrators

Administrative units

Delegated admin partners

Enterprise applications

Devices

App registrations

Identity Governance

Application proxy

+ Add

Manage tenants

What's new

User

Group

Enterprise application

App registration

Create new user

Invite external user

Basic information

Name

CST8912demo

Tenant ID

6a101cbc-ac4b-4b42-a004-84eebc9ac91f

Primary domain

CST8912demo2025.onmicrosoft.com

License

Microsoft Entra ID Free

Users

1

Groups

0

Applications

0

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

[Home](#) > [CST8912demo](#) | [Overview](#) >

Create new user ... 7-2

Create a new internal user in your organization

Basics

Properties

Assignments

Review + create

Create a new user in your organization. This user will have a user name like alice@contoso.com. [Learn more](#)

Identity

User principal name *

8912user1 @ CST8912demo2025.on...

Domain not listed? [Learn more](#)

Mail nickname *

8912user1

☒ Derive from user principal name

Display name *

8912user1

Password *

☒ Auto-generate password

Account enabled

☒

Review + create

< Previous

Next: Properties >

Give feedback

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

[Home](#) > [CST8912demo](#) | [Overview](#) >

Create new user ... 7-3

Create a new internal user in your organization

Basics

Properties

Assignments

Review + create

Identity

First name

Frank

Last name

Yang

User type

Member

Authorization info

Edit Certificate user IDs

Job Information

Job title

IT Administrator

Company name

Department

IT

Employee ID

Employee type

Review + create

< Previous

Next: Assignments >

Give feedback

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > CST8912demo | Overview >

Create new user

Create a new internal user in your organization

7-4

Country or region

Business phone

Mobile phone

Email

Other emails

+ Add or edit other emails

Fax number

Parental controls

Age group

Consent provided for minor

Settings

Usage location

Canada

22

Review + create

< Previous

Next: Assignments >

Give feedback

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > CST8912demo | Users > Users >

8912user1

User

Search

Edit properties

Delete

Refresh

Overview

Audit logs

Sign-in logs

Diagnose and solve problems

Custom security attributes

Assigned roles

Administrative units

Groups

Applications

Licenses

Devices

Azure role assignments

Authentication methods

New support request

8

8912user1

8912user1@CST8912demo2025.onmicrosoft.com

Member

User principal name

8912user1@CST8912demo2025.onmicrosoft.com

Object ID

8b6a1d57-f765-41fc-8f8b-0828a0c4f7df

Created date time

Feb 12, 2025, 3:06 PM

User type

Member

Identities

CST8912demo2025.onmicrosoft.com

Group memberships

0

Applications

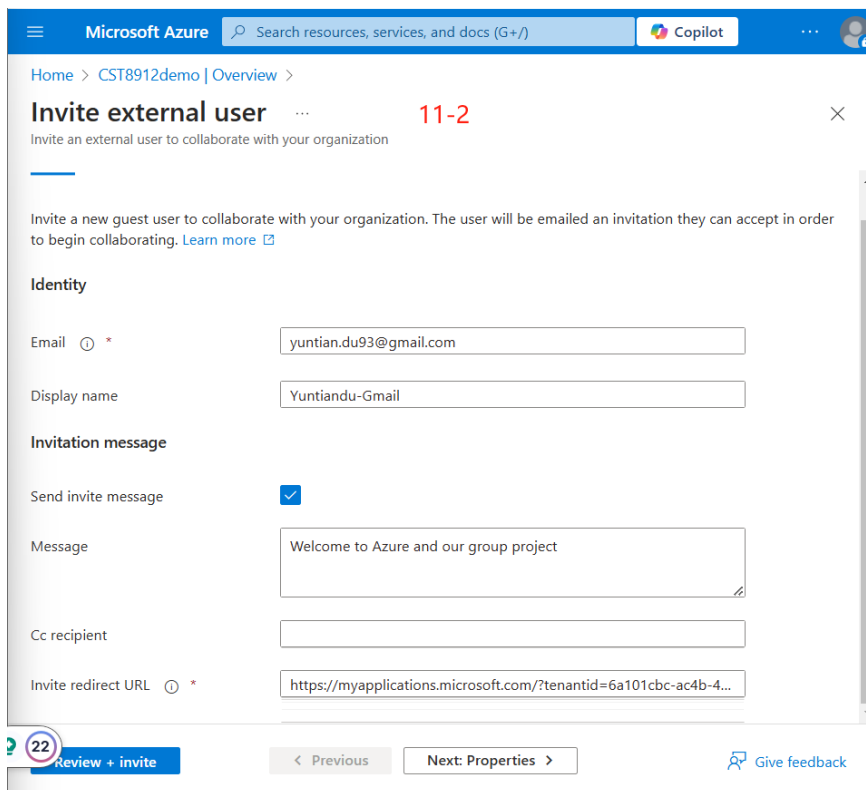
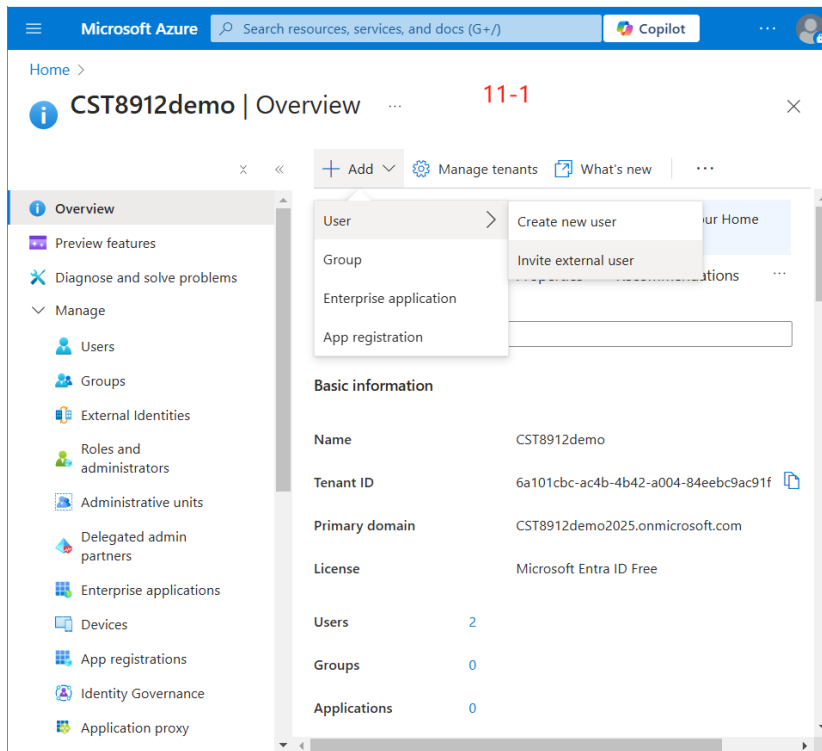
0

Assigned roles

0

Assigned licenses

0



Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

...

[Home](#) > [CST8912demo](#) | [Overview](#) >

Invite external user

...

12-1

×

Invite an external user to collaborate with your organization

Basics

Properties

Assignments

Review + invite

Identity

First name

Yuntian

Last name

Du

User type

Guest

▼

Authorization info

+ Edit Certificate user IDs

Job Information

Job title

IT Administrator

Company name

Department

IT

Employee ID

Employee type

Review + invite

< Previous

Next: Assignments >

Give feedback

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

...

[Home](#) > [CST8912demo](#) | [Overview](#) >

Invite external user

...

12-2

×

Invite an external user to collaborate with your organization

Basics

Properties

Assignments

Review + invite

First name

Last name

ZIP or postal code

Country or region

Business phone

Mobile phone

Other emails

+ Add or edit other emails

Fax number

Parental controls

Age group

▼

Consent provided for minor

▼

Settings

Usage location

Canada

▼

21 Review + invite

< Previous

Next: Assignments >

Give feedback

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > CST8912demo | Overview >

Invite external user

13

×

Invite an external user to collaborate with your organization

Send invite message

Yes

Message

Welcome to Azure and our group project

Cc recipient

Invite redirect URL

https://myapplications.microsoft.com/?tenantid=6a101cbc-ac4b-4b42-a004-84eabc9ac91f

Properties

First name

Yuntian

Last name

Du

User type

Guest

Job title

IT Administrator

Department

IT

Usage location

Canada

Assignments

Groups

Roles

Invite

< Previous

Next >

Give feedback

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > CST8912demo | Users >

Users

14

×

CST8912demo

+

New user

▼

✎

Edit (Preview)

▼

🗑️

Delete

⋮

All users

Azure Active Directory is now Microsoft Entra ID. 📄

Audit logs

Sign-in logs

Diagnose and solve problems

Deleted users

Password reset

User settings

Bulk operation results

New support request

Search

Add filter

3 users found

☐

Display name ↑

User principal name ↴

☐

8

8912user1

8912user1@CST8912dem...

Me

☐

YD

Yuntian Du

du000086_algonquinlive.c...

Me

☐

Y

Yuntiandu-Gmail

yuntian.du93_gmail.com#...

Gu

Task 2:

This screenshot shows the Microsoft Azure Groups Overview page for the tenant CST8912demo. The page has a blue header with the Microsoft Azure logo, a search bar, and a Copilot icon. The breadcrumb trail is Home > CST8912demo | Groups > Groups. The main title is "Groups | Overview" with a red "1" indicating a new feature or update. Below the title, there are links for "New group", "Download groups", and "Preview features". The left sidebar contains a navigation menu with "Overview" (selected), "All groups", "Deleted groups", "Diagnose and solve problems", "Settings", "Activity", and "Troubleshooting + Support". The main content area is divided into two tabs: "Overview" (selected) and "Tutorials". Under the "Overview" tab, there is a search bar labeled "Search your tenant". Below this, the "Basic information" section displays a list of group types and their counts: Total groups (0), M365 groups (0), Security groups (0), Dynamic groups (0), Cloud groups (0), and On-premises groups (0). The "Alerts" section is currently empty. At the bottom, there is a "Feature highlights" section.

This screenshot shows the Microsoft Azure Groups General settings page for the tenant CST8912demo. The page has a blue header with the Microsoft Azure logo, a search bar, and a Copilot icon. The breadcrumb trail is Home > CST8912demo | Groups > Groups > Groups. The main title is "Groups | General" with a red "2" indicating a new feature or update. Below the title, there are links for "Save", "Discard", and "Got feedback?". The left sidebar contains a navigation menu with "Overview", "All groups", "Deleted groups", "Diagnose and solve problems", "Settings", "General" (selected), "Expiration", "Naming policy", "Activity", and "Troubleshooting + Support". The main content area is divided into two tabs: "Overview" (selected) and "Tutorials". Under the "Overview" tab, there is a search bar labeled "Search your tenant". Below this, the "Basic information" section displays a list of group types and their counts: Total groups (0), M365 groups (0), Security groups (0), Dynamic groups (0), Cloud groups (0), and On-premises groups (0). The "Alerts" section is currently empty. At the bottom, there is a "Feature highlights" section.

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > CST8912demo | Groups > Groups

Groups | Expiration

CST8912demo

3

Save Discard Got feedback?

Overview

All groups

Deleted groups

Diagnose and solve problems

Settings

General

Expiration

Naming policy

Activity

Privileged Identity Management

Access reviews

Audit logs

Bulk operation results

Troubleshooting + Support

Renewal notifications are emailed to group owners 30 days, 15 days, and one day prior to group expiration. Group owners must have Exchange licenses to receive notification emails. If a group is not renewed, it is deleted along with its associated content from sources such as Outlook, SharePoint, Teams, and Power BI.

Group lifetime (in days)

Email contact for groups with no owners *

Enter email addresses separated by a semicolon ;

Enable expiration for these Microsoft 365 groups

All Selected None

https://portal.azure.com/#view/Microsoft_Azure_Groups/Expiration

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > CST8912demo | Groups > Groups

Groups | Naming policy

CST8912demo

4

Save Discard Delete policy Got feedback?

Overview

All groups

Deleted groups

Diagnose and solve problems

Settings

General

Expiration

Naming policy

Activity

Privileged Identity Management

Access reviews

Audit logs

Bulk operation results

Troubleshooting + Support

[Learn more](#) about group naming policies.

Blocked words Group naming policy

Enable custom blocked words list

You can upload a list of words you wish to block to prevent Microsoft 365 groups being given profane or reserved names and aliases. You may download the .csv file to view and/or edit the existing list of blocked words.

To view and/or edit blocked words list:

- Download .csv file of blocked words
- Add or remove terms (5,000 word maximum)
- Upload your .csv file

Select a file

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > CST8912demo | Groups > Groups | All groups >

New Group

5

Got feedback?

Group type *

Security

Group name *

IT Administrator

Group description

Administrators that manage the IT lab

Membership type

Assigned

Owners

No owners selected

Members

No members selected

Create

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > Groups | All groups >

IT Administrator

Group

6

Delete

Got feedback?

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

Group memberships

Applications

Licenses

Azure role assignments

Activity

Privileged Identity Management

Access reviews

Basic information

IA

IT Administrator

Administrators that manage the IT lab

Membership type

Assigned

Source

Cloud

Type

Security

Object ID

4604e70e-c0e1-4169-86af-1170376e898d

Created on

2/12/2025, 3:30 PM

Total direct members

0

User(s)

0

Group(s)

0

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > Groups | All groups > IT Administrator

IT Administrator

Group

...

7

×

+

Add owners

↺

Refresh

⚙️

Manage view

▼

...

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

Group memberships

Applications

Licenses

Azure role assignments

Activity

Privileged Identity Management

Access reviews

Search

Add filter

0 group owners found

☐

Name ↑

Ty

No owners have been found

https://portal.azure.com/#view/Microsoft_AA...

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Add owners

×

8

3 results found

AllUsers

	Name	Type	Details
<input type="checkbox"/>	8912user1	User	8912user1@CST8912demo2025.onmicrosoft
<input checked="" type="checkbox"/>	Yuntian Du	User	du000086@algonquinlive.com
<input type="checkbox"/>	Yuntiandu-Gmail	User	yuntian.du93@gmail.com

Owners (1)

↺ Reset

Yuntian Du

du000086@algonquinlive.com

Select

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > IT Administrator

IT Administrator | Members

9

+

Add members

Bulk operations

Refresh

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

Group memberships

Applications

Licenses

Azure role assignments

Activity

Privileged Identity Management

Access reviews

Direct members

All members

Search

Add filter

0 group members found

Name ↑

Ty

No members have been found

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Add members

10

29 results found

AllUsersGroupsDevicesEnterprise applications

	Name	Type	Details
<input type="checkbox"/>	Yuntian Du	User	du000086@algonquinlive.com
<input type="checkbox"/>	AADReporting	Enterprise ap...	1b912ec3-a9dd-4c4d-a53e-76aa7adb28d
<input checked="" type="checkbox"/>	Yuntiandu-Gmail	User	yuntian.du93@gmail.com
<input type="checkbox"/>	Azure AD Notification	Enterprise ap...	fc03f97a-9db0-4627-a216-ec98ce54e018

Selected (2)

Reset

8912user1
8912user1@CST8912demo2025.onmicrosoft.com

Yuntiandu-Gmail
yuntian.du93@gmail.com

Select

Microsoft Azure Search resources, services, and docs (G+/) Copilot

Home > CST8912demo | Groups > Groups | Overview >

All groups

12

New group Download groups Refresh Manage view Delete Got feedback?

Microsoft Entra has a simpler, integrated experience for managing all your Identity and Access Management needs. Try the new Microsoft Entra admin center! [\[?\]](#)

Search

Search mode Contains

1 group found

Name ↑	Object Id	Grp
IA IT Administrator	4604e70e-c0e1-4169-86af-1170376e898d	Sec

Microsoft Azure Search resources, services, and docs (G+/) Copilot

Home > CST8912demo | Groups > Groups | Overview > All groups >

IT Administrator

Group

13

Delete Got feedback?

Device(s) 0

Other(s) 0

Feed

Group memberships
0
[View group memberships](#)

Owners
1
[View group owners](#)

Total members
2
[View group members](#)

Overview

- Diagnose and solve problems
- Manage
 - Properties
 - Members
 - Owners
 - Roles and administrators
 - Administrative units
 - Group memberships
 - Applications
 - Licenses
 - Azure role assignments
- Activity
 - Privileged Identity Management
 - Access reviews

Task 3:

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and the Copilot icon. The breadcrumb trail indicates the user is in the Home > CST8912demo | Overview section. The left sidebar lists various management options, with 'Properties' highlighted. The main content area shows the 'Overview' tab for the 'CST8912demo' tenant. A notification banner at the top suggests a feedback survey. Below this, a search bar for tenants is present. The 'Basic information' section lists the following details:

Property	Value
Name	CST8912demo
Tenant ID	6a101cbc-ac4b-4b42-a004-84eebc9ac91f
Primary domain	CST8912demo2025.onmicrosoft.com
License	Microsoft Entra ID Free
Users	3
Groups	1
Applications	0

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and the Copilot icon. The breadcrumb trail indicates the user is in the Home > CST8912demo | Properties section. The left sidebar lists various management options, with 'Properties' highlighted. The main content area shows the 'Properties' tab for the 'CST8912demo' tenant. The settings are organized into several sections:

- Notification language:** English
- Tenant ID:** 6a101cbc-ac4b-4b42-a004-84eebc9ac91f
- Technical contact:** du000086@algonquinlive.com
- Global privacy contact:** (empty field)
- Privacy statement URL:** (empty field)
- Access management for Azure resources:** Yuntian Du (du000086@algonquinlive.com) can manage access to all Azure subscriptions and management groups in this tenant. [Learn more](#)
- Security defaults:** No

At the bottom of the page, there are 'Save' and 'Discard' buttons. The URL bar at the bottom shows the path: https://portal.azure.com/#view/Microsoft_AAD_IAM/ActiveDirectoryMenuBlade/~/~/Properties

Microsoft Azure Management groups

Home > CST8912demo

CST8912demo

- Identity Governance
- Application proxy
- Custom security attributes
- Licenses
- Cross-tenant synchronization
- Microsoft Entra Connect
- Custom domain name
- Mobility (MDM and WIP)
- Password reset
- Company branding
- User settings
- Properties**
- Security
- Monitoring

Services (27) More (5)

Services

- Management groups
- API Management services
- Proximity placement groups
- Groups

Documentation

- Quickstart: Create a management group with portal - A...
- Manage your Azure subscriptions at scale with manage...
- Organize your resources with management groups - Az...
- Management groups - Cloud Adoption Framework
- Continue searching in Microsoft Entra ID

Give feedback

Security defaults

Save Discard

https://portal.azure.com/#blade/Microsoft_Azure_Resources/ManagementGroupBrowseBlade

Microsoft Azure Search resources, services, and docs (G+/) Copilot

Create management group

6&7

Management group ID (Cannot be updated after creation) *

8912-mg1 ✓

Management group display name

8912-mg1

Submit Cancel

Microsoft Azure Search resources, services, and docs (G+/) Copilot

Home > Management groups CST8912demo

Search

+ Create + Add subscription Refresh

Overview

Get started

Settings

Use management groups to group subscriptions. Click on an existing group to drill in, view details and govern resources. Right-click on any subscription or management group to launch quick actions. Click the "Get Started" tab to learn more.

You are registered as a directory admin but do not have the necessary permissions to access the root management group. [Click here for more info.](#)

Search by name or ID

Showing 0 subscriptions in 2 groups

Name	Type
Tenant Root Group	Manager
8912-mg1	Manager

Task 4:

Microsoft Azure Search resources, services, and docs (G+/) Copilot

Home > Management groups > 8912-mg1 Management group

Search

+ Create + Add subscription Refresh

Overview

Subscriptions

Resource Groups

Resources

Activity Log

Access control (IAM)

Governance

Cost Management

Essentials

Name : 8912-mg1

ID : 8912-mg1

Access Level : Owner

Path : Tenant Root Group / 8912-mg1

Parent managem... : Tenant Root Group

Child manageme... : 0

Total subscriptions : 0

Search by name or ID

Showing 0 subscriptions in 1 groups

Name	Type
------	------

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > Management groups > 8912-mg1

8912-mg1 | Access control (IAM)

2

X

Search

X

«

+ Add

Download role assignments

Edit columns

Overview

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Access control (IAM)

Governance

Cost Management

Check access

Role assignments

Roles

Deny assignments

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

Discover, monitor and remediate unused permissions in your Azure environment with Microsoft Entra Permissions Management. [Learn more](#)

All

Job function roles

Privileged administrator roles

Search by role name, description, permission, or ID

Type : All

Category : All

<input type="checkbox"/> Name ↑↓	Description ↑↓	Type ↑↓
<input type="checkbox"/> Owner	Grants full access to manage ...	BuiltInRole
<input type="checkbox"/> Contributor	Grants full access to manage ...	BuiltInRole
<input type="checkbox"/> Reader	View all resources, but does ...	BuiltInRole
<input type="checkbox"/> Access Review Operat...	Lets you grant Access Review...	BuiltInRole
<input type="checkbox"/> AppDelete	...	BuiltInRole

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > Management groups > 8912-mg1

8912-mg1 | Access control (IAM)

4

X

Search

X

«

+ Add

Download role assignments

Edit columns

Overview

Subscriptions

Resource Groups

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Access control (IAM)

Governance

Cost Management

Add role assignment

Role assignments

Roles

Deny assignments

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

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All

Job function roles

Privileged administrator roles

Search by role name, description, permission, or ID

Type : All

Category : All

Expla...

Summarize

X

<input type="checkbox"/> Name ↑↓	Description ↑↓	Type ↑↓
<input type="checkbox"/> Owner	Grants full access to manage ...	BuiltInRole
<input type="checkbox"/> Contributor	Grants full access to manage ...	BuiltInRole
<input type="checkbox"/> Reader	View all resources, but does ...	BuiltInRole
<input type="checkbox"/> Access Review Operat...	Lets you grant Access Review...	BuiltInRole
<input type="checkbox"/> AppDelete	...	BuiltInRole

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > Management groups > 8912-mg1 | Access control (IAM) >

Add role assignment

RoleMembers + ConditionsReview + assign

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

Job function rolesPrivileged administrator roles

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

Virtual Machine Contributor

Type : All

Category : All

Name	Description	Type	Category
Classic Virtual Machin...	Lets you manage classic virtual machines, but not acces...	BuiltInRole	Compute
Desktop Virtualization ...	Provide permission to the Azure Virtual Desktop Resour...	BuiltInRole	None
Desktop Virtualization ...	Provide permission to the Azure Virtual Desktop Resour...	BuiltInRole	None
Desktop Virtualization ...	This role is in preview and subject to change. Provide pe...	BuiltInRole	None
Service Fabric Cluster ...	Manage your Service Fabric Cluster resources. Includes ...	BuiltInRole	None
Virtual Machine Contri...	Lets you manage virtual machines, but not access to the...	BuiltInRole	Compute

Review + assignPreviousNextFeedback

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > CST8912demo | Groups > Groups | Overview >

New Group

Got feedback?

Group type *
Security

Group name *
Help Desk

Group description
Help Desk group for this organization

Membership type
Assigned

Owners
1 owner selected

Members
1 member selected

Create

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > Management groups > 8912-mg1

Add role assignment

68889

RoleMembers

Selected roleClassic Virtual Machine Contributor

Assign access toUser, group, or service principalManaged identity

Members+ Select members

NameNo members selected

DescriptionOptional

Review + assignSelectClose

Search by name or email address

8912user18912user1@CST8912demo2025.onmicrosoft.com

Help DeskHelp Desk group for this organization

IT AdministratorAdministrators that manage the IT lab

Yuntian Du(Guest)du000086_algonquinlive.com#EXT#@CST8912demo2025.onmicrosoft.com

Yuntian Du-Gmail(Guest)yuntian.du93@gmail.com

Selected members:

Help DeskHelp Desk group for this organization

Microsoft Azure

Search resources, services, and docs (G+)

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8912-mg1 | Access control (IAM)

10

Search

+ AddDownload role assignmentsEdit columns

OverviewSubscriptionsResource GroupsResourcesActivity LogAccess control (IAM)GovernanceCost Management

View assignments

AllJob function (1)Privileged (1)

Search by name or email

Type: AllRole: AllScope: All scopes

Group by: Role

2 items (1 Users, 1 Groups)

Name	Type	Role
Owner (1)		
<input type="checkbox"/> Yuntian Du du000086_algo... User		Owner
Classic Virtual Machine Contributor (1)		
<input type="checkbox"/> Help Desk Group		Classic Virtual Machine Contributor

Task 5:

The screenshot shows the Microsoft Azure Portal interface. At the top is a blue header bar with the 'Microsoft Azure' logo, a search bar containing 'Search resources, services, and docs (G+ /)', a 'Copilot' button, and a user profile icon. Below the header, the 'Portal settings' section is active, with a dropdown menu showing 'Directories + subscriptions'. The settings are divided into two tabs: 'Favorites' and 'All Directories', with 'All Directories' currently selected. Under 'All Directories', there is a search bar and a table with columns for 'Directory name', 'Domain', and 'Directory ID'. The table contains one entry: 'Algonquin College', which is marked as 'Current' with a green checkmark. The domain is 'AlgonquinLivecom.onmicr...' and the directory ID is 'ec1bd924-0a6a-4aa9-aa8...'. At the bottom of the settings panel, there is a 'Useful links' section with several links: 'Learn more about settings', 'Safelist URLs', 'Microsoft partner network', 'Privacy Statement', 'More Azure resources', and 'Provide feedback'.

Portal settings Directories + subscriptions

Current directory : Algonquin College (AlgonquinLivecom.o...)

Startup directory : Last visited

Favorites **All Directories**

Search

Directory name ↑↓		Domain ↑↓	Directory ID ↑↓
★ Algonquin College	✓ Current	AlgonquinLivecom.onmicr...	ec1bd924-0a6a-4aa9-aa8...

Useful links

- [Learn more about settings](#)
- [Safelist URLs](#)
- [Microsoft partner network](#)
- [Privacy Statement](#)
- [More Azure resources](#)
- [Provide feedback](#)

References

None.