



GROUP 1

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Get2cloud Cohort 2 Project

Implementing Role-Based Access Control (RBAC) With Privileged Identity Management (PIM) in Azure



Project Overview

Implementing and managing RBAC and PIM within Azure to enhance security and control.

Objective

Implement and manage PIM and RBAC.

Key Qoals

- Define user roles and responsibilities.
- Configure just-in-time access with time limits.
- Simulate real-world scenarios to assess security effectiveness.



Company Background

Our fictitious company is a growing tech firm with a diverse set of cloud needs.

Company

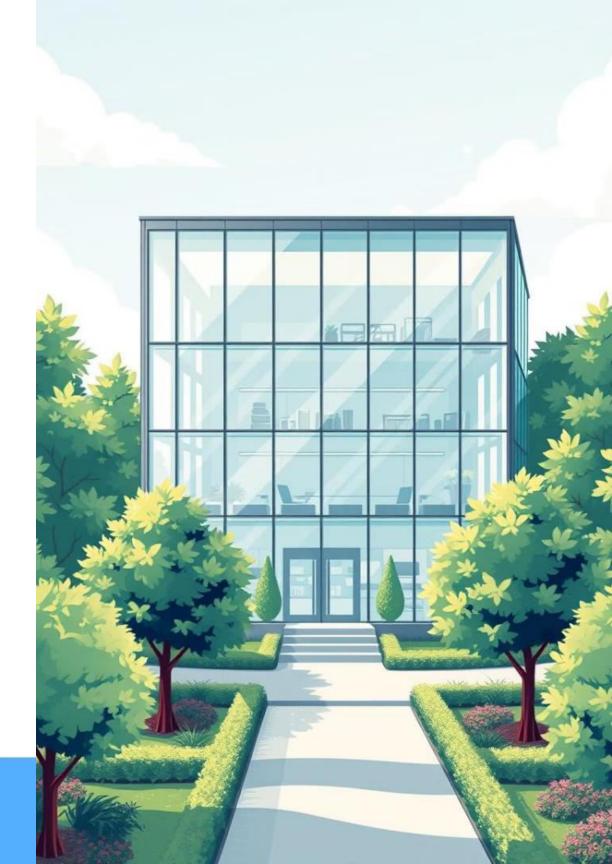
Growing tech firm with expertise in software development and IT services.

Departments

IT, Development, HR, each with specific access requirements.

Challenge

Ensure secure and controlled access to Azure resources.







Roles and Responsibilities

Defining user roles and their respective access levels for Azure resources.

1 IT Admin

Manages Azure infrastructure, networks, and databases.

Developer

Accesses development environments, code repositories, and testing resources.

3 HR Manager

Manages employee data and payroll information securely.



Setting Up PIM

Configuring PIM for just-in-time access and granular privilege control.

PIM Configuration

Define specific roles: IT Admins, Developers, HR Managers.

Just-in-Time Access

Implement approval-based privileges with set time limits.



Simulating Real-World Scenarios

Testing the security effectiveness of RBAC and PIM with real-world scenarios.

Scenario 1

Developer requests access to the production environment.

Scenario 2

HR Manager activates access for payroll processing.

____ Scenario 3

IT Admin requests elevated privileges for server maintenance.





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











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Privileged Identity Management | Quick start 📝 …

Privileged Identity Management



Azure Active Directory is becoming Microsoft Entra ID. Learn more

> Tasks

Quick start

✓ Manage

- Microsoft Entra roles
- Groups
- Azure resources
- Activity
- > Troubleshooting + Support

Get started

What's new

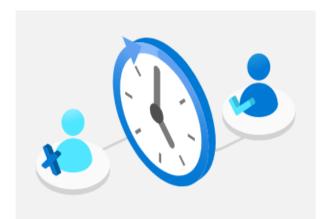
Manage your privileged access

Use Privileged Identity Management to manage the lifecycle of role assignments, enforce just-intime access policy, and discover who has what roles. Learn more 🗗



Manage access

Users with excessive access are vulnerable in the event of account compromise. Ensure your organization manages to least privilege by periodically reviewing, renewing, or extending



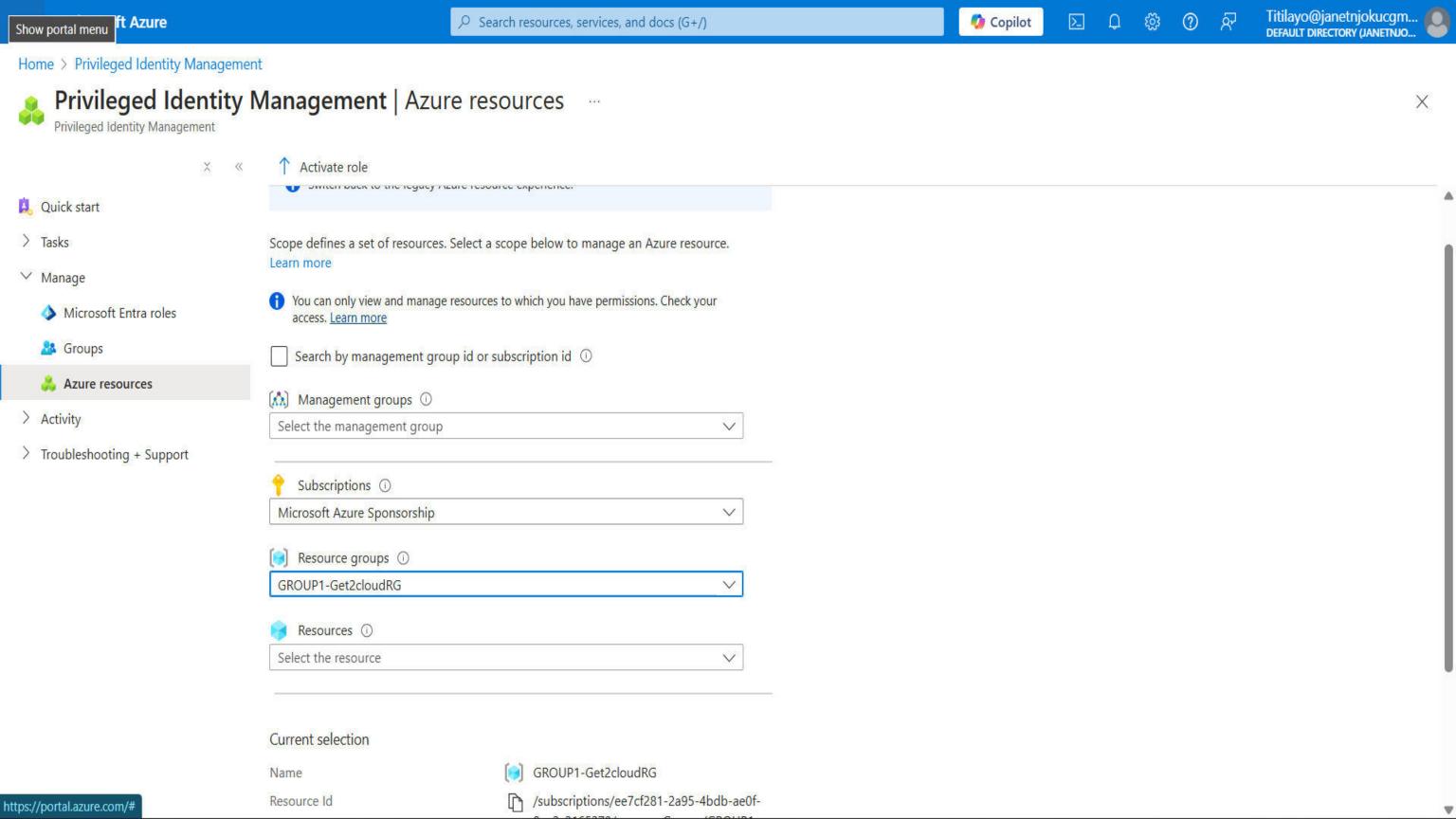
Activate just in time

Reduce the potential for lateral movement in the event of account compromise by eliminating persistent access to privileged roles and resources. Enforce just in time access to critical



Discover and monitor

It is common for access to critical resources to go undetected. Ensure you know who has access to what, and receive notifications when new assignments are granted to accounts in your



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Home > Privileged Identity Management | Azure resources >

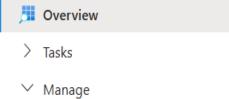


Privileged Identity Management | Azure resources





Admin view My view



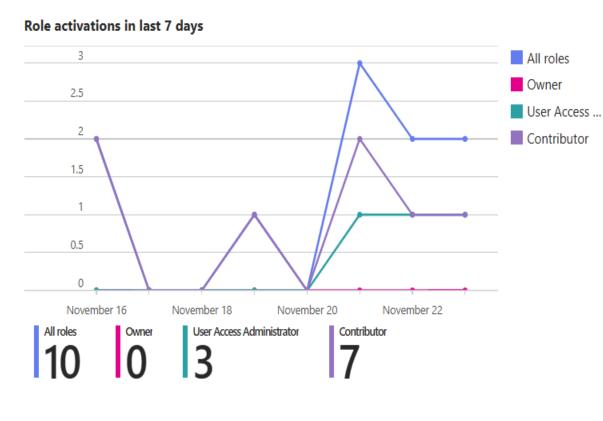




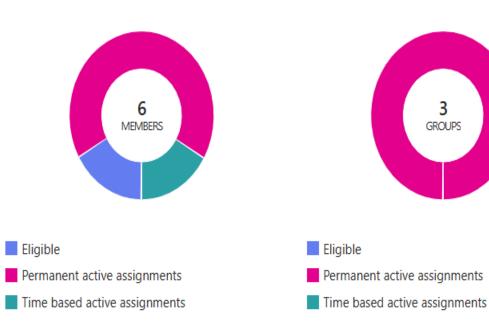


ঞ্জী Settings

> Activity





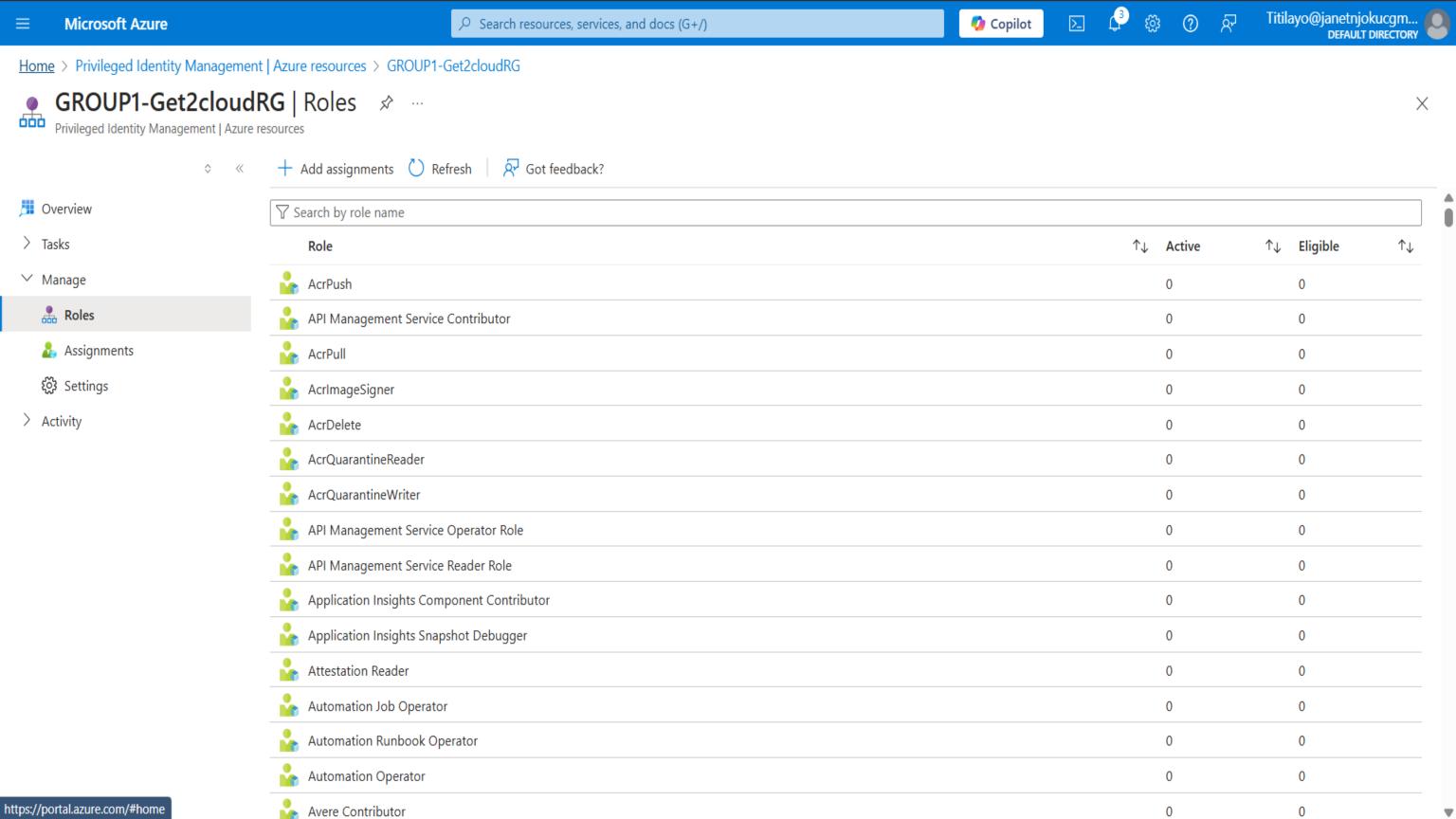


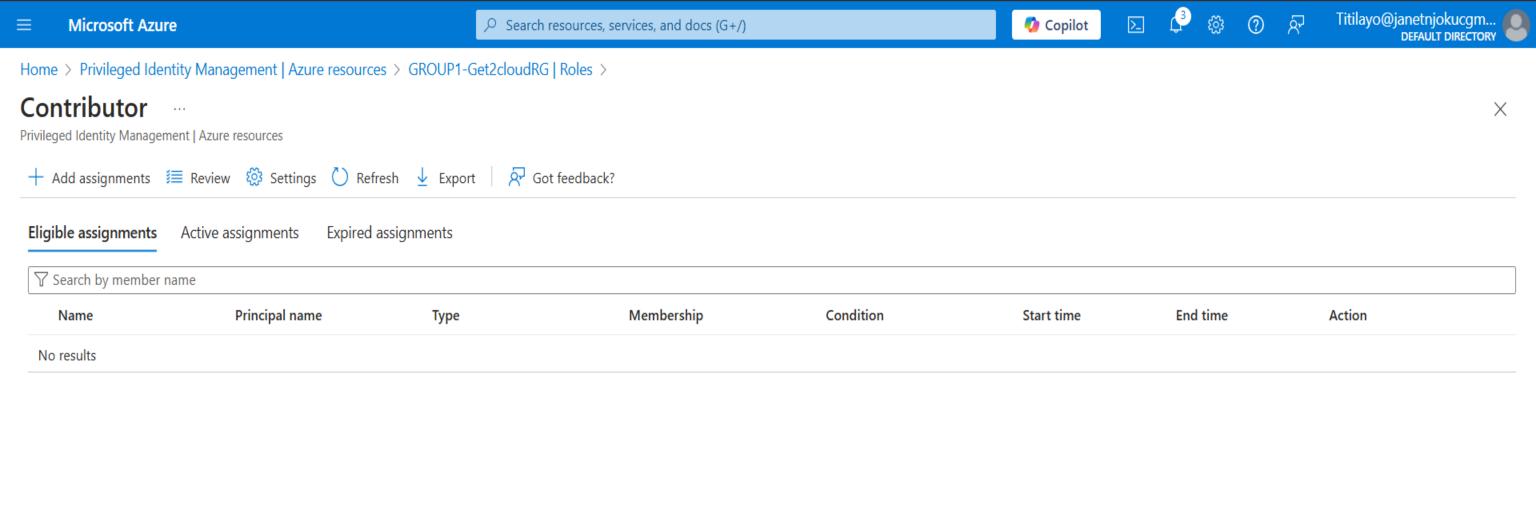
PIM Activities in last 30 days

Roles by assignment (descending)

Title	Count	Role	Member
Members with new eligible assignments	15	Contributor	4
Members assigned as active	3	User Access Administrator	2













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Show portal menu

Home > Privileged Identity Management | Azure resources > GROUP1-Get2cloudRG | Roles > Contributor >

Add assignments

Privileged Identity Management | Azure resources

Membership Setting

Resource

GROUP1-Get2cloudRG

Resource type

Resource group

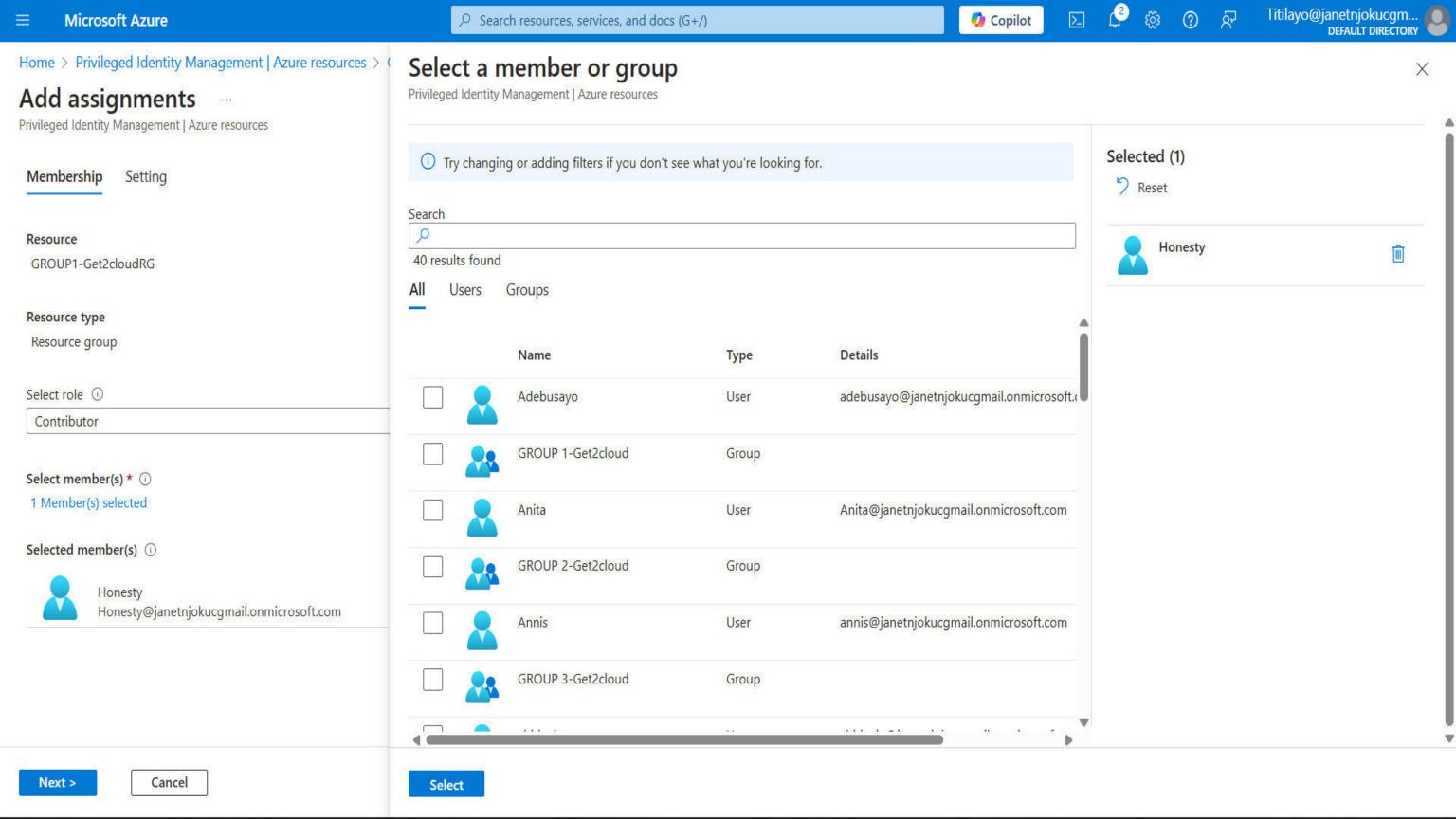
Select role ①

Contributor

Select member(s) * ()

No member selected

X



X

__ WICLOSOFT AZUTE

Home > Privileged Identity Management | Azure resources > GROUP1-Get2cloudRG | Roles >

Add assignments

Privileged Identity Management | Azure resources

Membership Setting

Assignment type (i)

Eligible

Active

Maximum allowed eligible duration is 1 year(s).

Assignment starts *

11/23/2024 🛗 | 9:44:09 AM

Assignment ends *

11/23/2024 🛅 10/44:09 AM

Assign

< Prev

Cancel



Role Activation Process

Defining the step-by-step process for activating privileged roles within Azure.

1

2

3

Request Activation

Users request activation for specific privileged roles.

Approval Workflow

An approval chain with defined time limits for access.

Role Expiry

Automatic revocation of privileges after the specified time period.







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What's new

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Quick start

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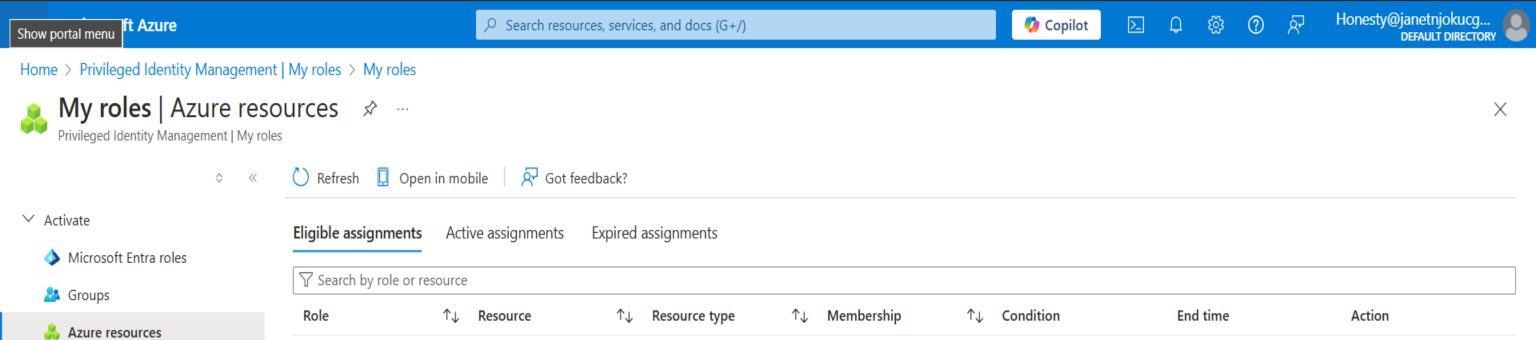


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Resource group

Direct

None

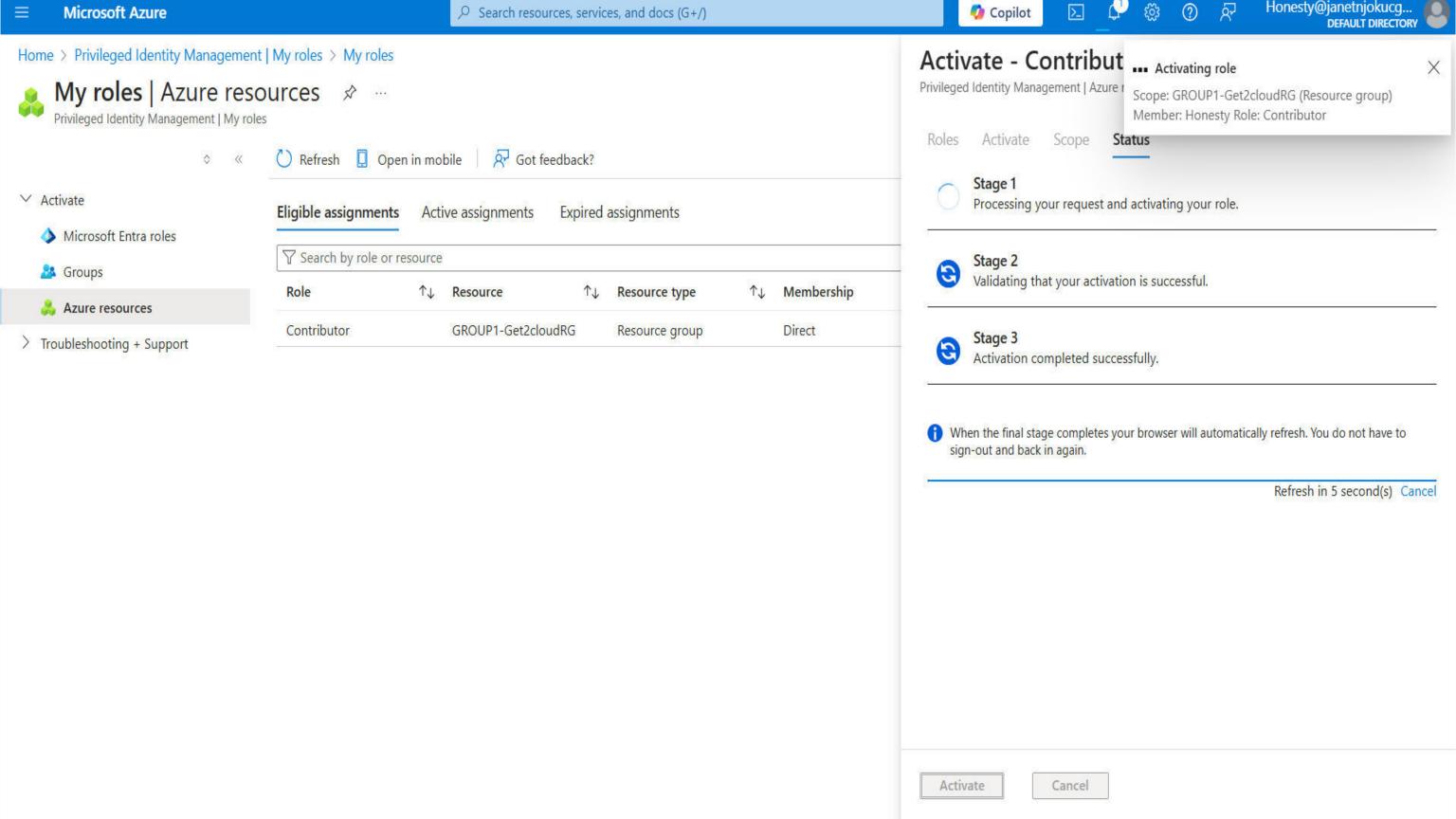
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Activate | Extend

> Troubleshooting + Support

Contributor

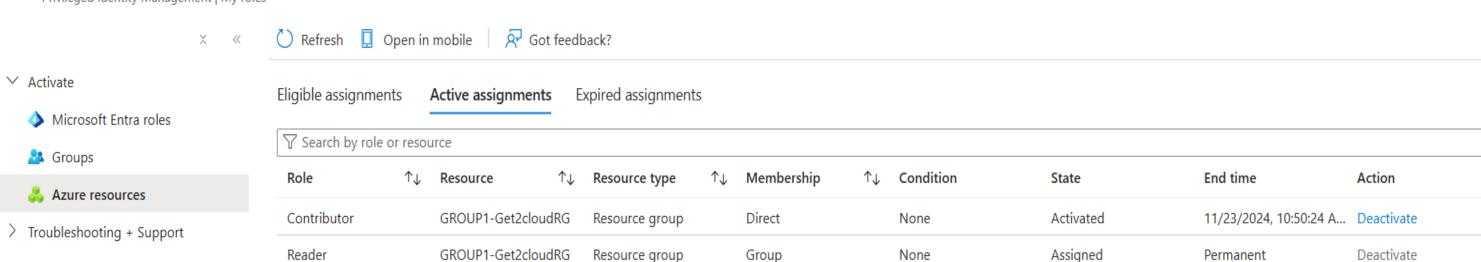
GROUP1-Get2cloudRG

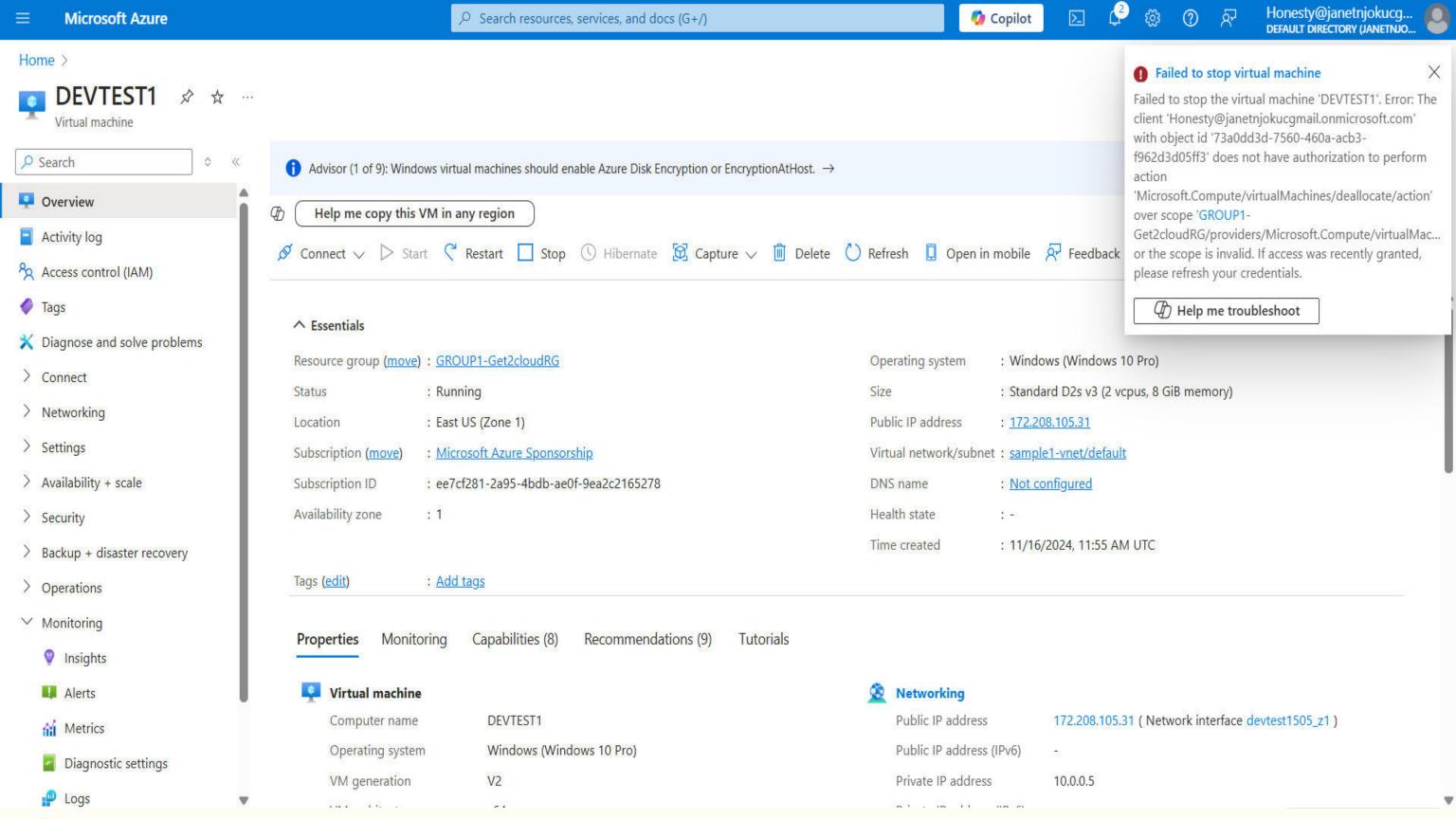


X

Home > Privileged Identity Management > My roles









Monitoring and Auditing

Ensuring ongoing security visibility and accountability through continuous monitoring.



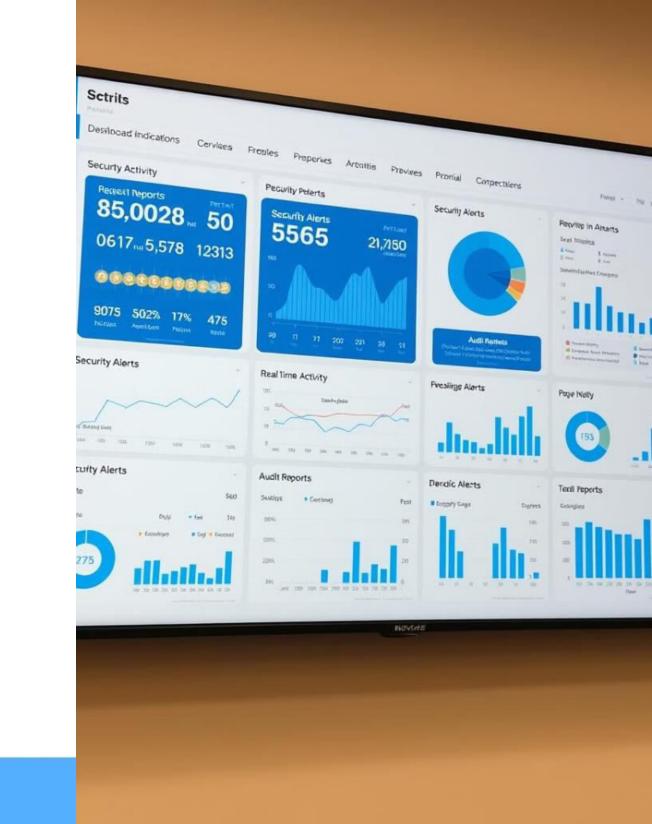
Logs and Alerts

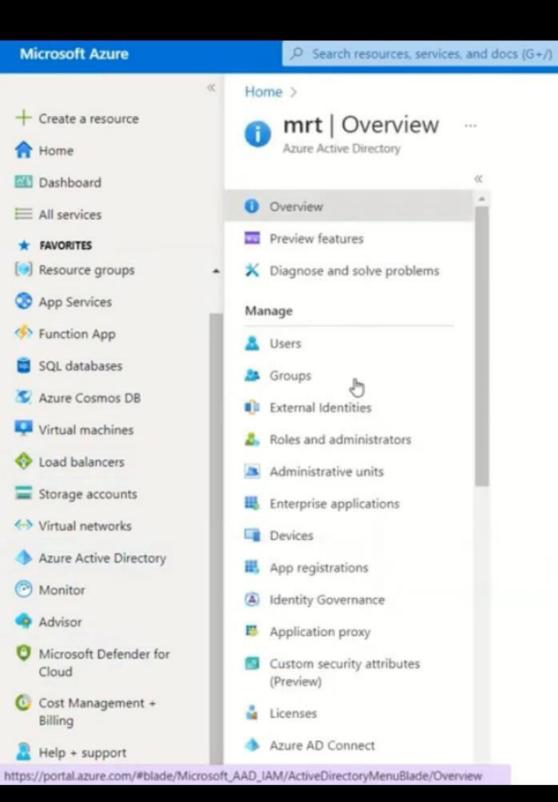
Set up alerts for unusual activity and review logs regularly.



Reports

Generate audit reports for privileged role usage and access patterns.









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