

Міністерство освіти і науки України  
Карпатський національний університет  
імені В.Стефаника

Факультет математики та інформатики  
Кафедра інформаційних технологій

Інформатика і програмування

Лабораторна робота No 2b

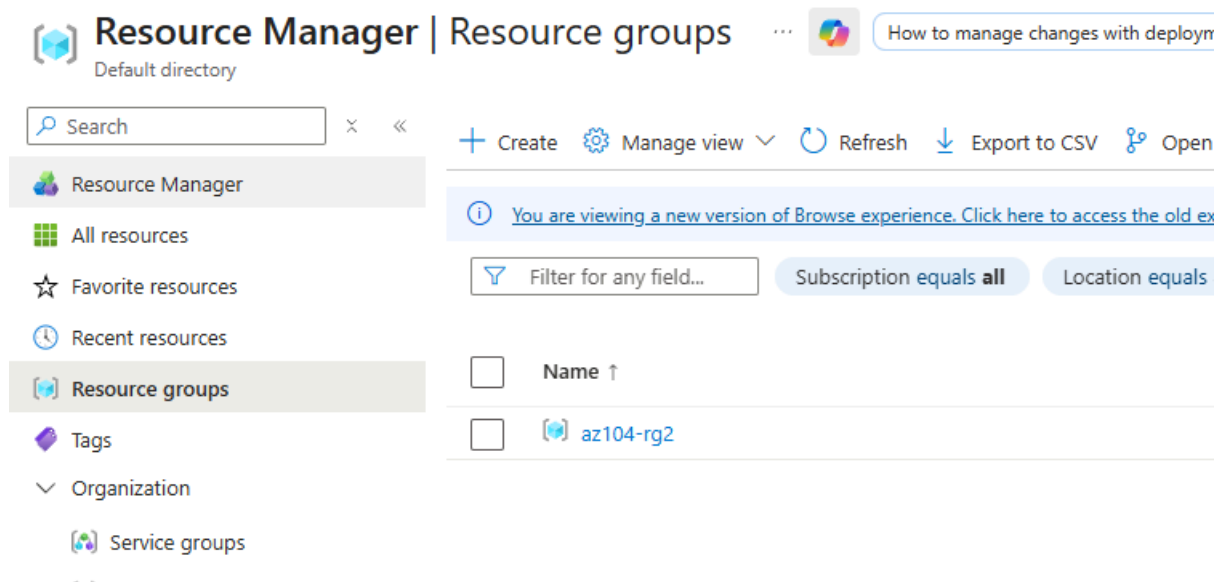
Тема: Manage Governance via Azure Policy

Виконав: Прокутко В.В  
Група ІПЗ-43  
Дата: 12 грудня 2025  
Викладач: Поварчук Д.Д

Івано-Франківськ – 2025

## Task 1: Assign tags via the Azure portal

In this task, you will create and assign a tag to an Azure resource group via the Azure portal. Tags are a critical component of a governance strategy as outlined by the Microsoft Well-Architected Framework and Cloud Adoption Framework. Tags can allow you to quickly identify resource owners, sunset dates, group contacts, and other name/value pairs that your organization deems important. For this task, you assign a tag identifying the resource Cost Center.



## Task 2: Enforce tagging via an Azure Policy

In this task, you will assign the built-in *Require a tag and its value on resources* policy to the resource group and evaluate the outcome. Azure Policy can be used to enforce configuration, and in this case, governance, to your Azure resources.

The screenshot displays the Microsoft Azure portal interface for a specific policy assignment. The top navigation bar includes links for Home, Policy, and Assignments. The main heading is 'Require Cost Center tag and its value on resources'. Below this, there are tabs for 'Essentials', 'Parameters (2)', 'Resource selectors (0)', 'Overrides (0)', 'Exemptions (0)', 'Remediation (0)', 'Deployed resources', and 'Managed identity'. The 'Parameters (2)' tab is selected, showing a table with the following data:

Parameter ID	Parameter Name	Parameter Value	Policy assignment
tagName	Tag Name	Cost Center	User defined p...
tagValue	Tag Value	0000	User defined p...

Summary   Raw Error

Copy Full E

#### ERROR VIEW

Resource 'lab02cc' was disallowed by policy. (Code: RequestDisallowedByPolicy, Policy(s): Require Cost Center tag a its value on resources [Policy link](#))

WAS THIS HELPFUL?  

 [Explain with Copilot](#)

#### Troubleshooting Options

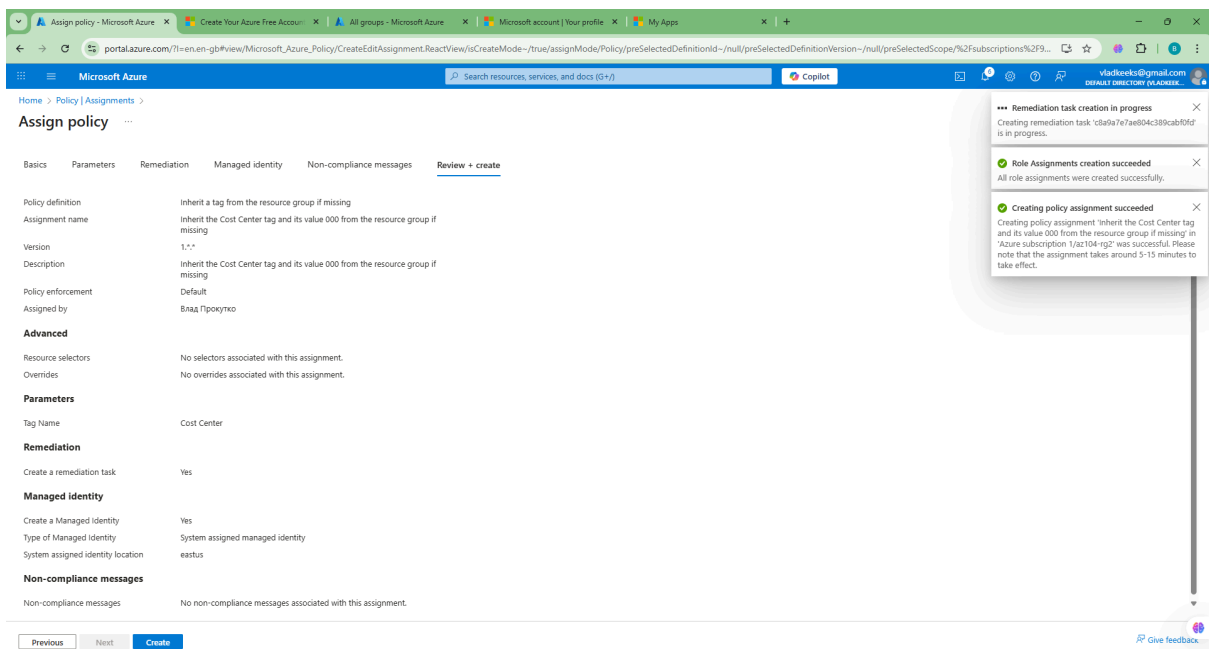
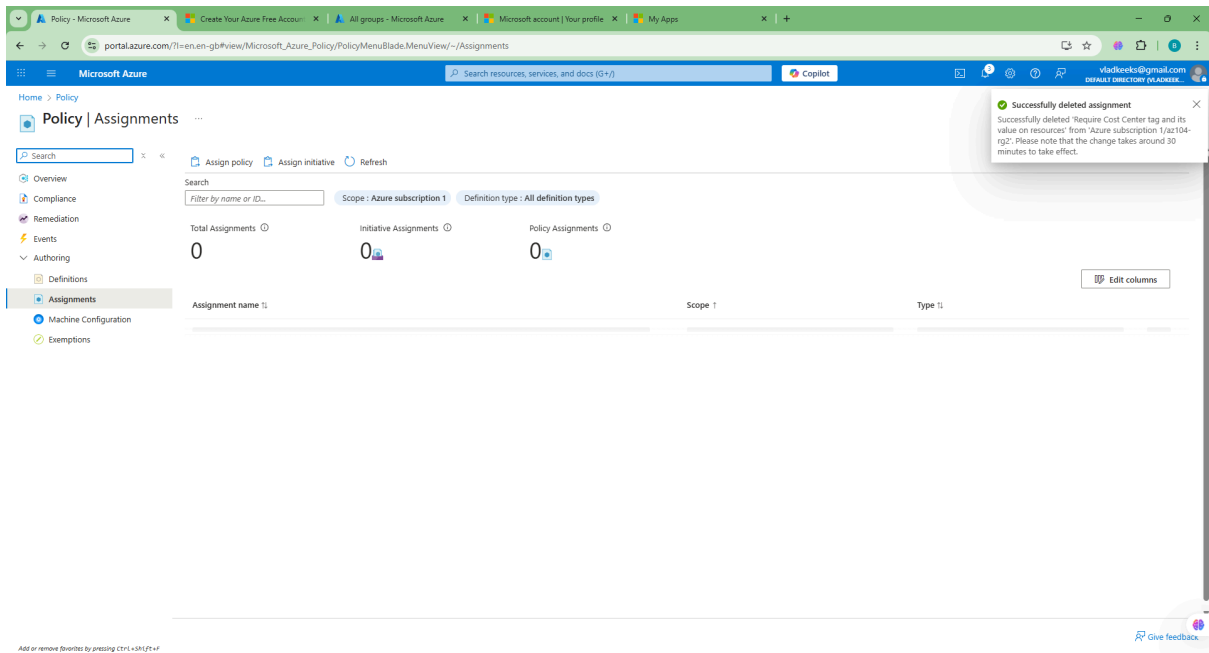
[New Support Request](#) 

#### Give Feedback

 [Tell us about your experience with the Errors page](#)

## Task 3: Apply tagging via an Azure policy

In this task, we will use the new policy definition to remediate any non-compliant resources. In this scenario, we will make any child resources of a resource group inherit the Cost Center tag that was defined on the resource group.



## Task 4: Configure and test resource locks

In this task, you configure and test a resource lock. Locks prevent either deletions or modifications of a resource.

Policy | Assignments

Search

Filter by name or ID...

Scope: Azure subscription 1 Definition type: All definition types

Total Assignments 1 Initiative Assignments 0 Policy Assignments 1

Edit columns Export to CSV

Assignment name	Scope	Type
Inherit the Cost Center tag and its value 000 from the resource group if missing	Azure subscription 1/ac104-rg2	Policy

lab002bb\_1765468775346 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: lab002bb\_1765468775346 Start time: 11/12/2025, 18:01:11

Subscription: Azure subscription 1 Correlation ID: a04094e3-bd9d-410b-a16b-94207bae3206

Resource group: az104-rg2

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Cost Management

Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >

Microsoft Defender for Cloud

Secure your apps and infrastructure Go to Microsoft Defender for Cloud >

Free Microsoft tutorials

Start learning today >

Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support. Find an Azure expert >

lab002bb - Microsoft Azure

portal.azure.com/11-en-en-gb#?@vladkeeks@gmail.com/microsoft/resource/subscriptions/9889ebcd-ca1f-4e0d-8116-0764f6dbd196/resourcegroups/az104-rg2/providers/Microsoft.Storage/storageAccounts/lab002bb/overview

Microsoft Azure

lab002bb Storage account

Overview

Essentials

Resource group (move) : az104-rg2

Location : eastus

Primary/Secondary Location : Primary: East US, Secondary: West US

Subscription (move) : Azure subscription 1

Subscription ID : 9889ebcd-ca1f-4e0d-8116-0764f6dbd196

Disk state : Primary: Available, Secondary: Available

Tags (edit) : Cost Center: 000

Performance : Standard

Replication : Read-access geo-redundant storage (RA-GRS)

Account kind : StorageV2 (general purpose v2)

Provisioning state : Succeeded

Created : 12/11/2025, 6:01:15 PM

Properties

Monitoring

Capabilities (7)

Recommendations (0)

Tutorials

Tools + SDKs

Blob service

Hierarchical namespace : Disabled

Default access tier : Hot

Blob anonymous access : Disabled

Blob soft delete : Enabled (7 days)

Container soft delete : Enabled (7 days)

Versioning : Disabled

Change feed : Disabled

NFS v3 : Disabled

Allow cross-tenant replication : Disabled

Storage tasks assignments : None

File service

Large file share : Enabled

Identity-based access : Not configured

Default share-level permissions : Disabled

Security

Require secure transfer for REST API operations : Enabled

Storage account key access : Enabled

Minimum TLS version : Version 1.2

Infrastructure encryption : Disabled

Networking

Public network access : Enabled

Public network access scope : Enable from all networks

Private endpoint connections : 0

Network routing : Microsoft network routing

Endpoint type : Standard

Delete a resource group - Microsoft Azure

portal.azure.com/11-en-en-gb#?@vladkeeks@gmail.com/microsoft/resource/subscriptions/9889ebcd-ca1f-4e0d-8116-0764f6dbd196/resourcegroups/az104-rg2/overview

Microsoft Azure

Resource Manager | Resource groups

Default directory

Search

Create

Manage view

Resource Manager

All resources

Favorite resources

Recent resources

Resource groups

Tags

Organization

Service groups

Management groups

Subscriptions

Tools

Resource graph explorer

Resource graph queries

Resource visualizer

Resource explorer

ARM API playground

Resource mover

Deployments

Templates

Template specs

Help

Support + troubleshooting

Showing 1 - 1 of 1. Display count: auto

az104-rg2

Overview

Essentials

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

Cost Management

Monitoring

Automation

Help

Filter for any field...

Name 1

lab002bb

Delete a resource group

The following resource group and all its dependent resources will be permanently deleted.

Resource group to be deleted

az104-rg2

1 resources being deleted across 1 subscriptions, 1 resource groups

All dependent resources, including hidden types, are shown

Name	Resource type	Subscription	Resource Group
lab002bb	Storage account	Azure subscription 1	az104-rg2

Enter resource group name to confirm deletion \*

az104-rg2

Delete

Cancel

vladkeeks@gmail.com

DEFAULT DIRECTORY (VLADKEEK...

Delete resource group az104-rg2 failed

The resource group az104-rg2 is locked and can't be deleted. Click here to manage locks for this resource group.

Help me troubleshoot