

Міністерство освіти і науки України
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*Факультет математики та інформатики
Кафедра інформаційних технологій*

Лабораторна робота № 2b

з дисципліни
"Хмарні
технології"

Тема: Manage Governance via Azure Policy

Виконав: **Будзяк Роман**

Група ІПЗ-41

Дата: 20 жовтня 2025 р.

Task 1: Create and assign tags via the Azure portal.

Створення ресурсної групи

Create a resource group

Basics

Tags

Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Subscription * ⓘ

Azure subscription 1

Resource group name * ⓘ

az104-rg2

Region * ⓘ

(Europe) Poland Central

Create a resource group

Basics

Tags

Review + create

Automation Link

Basics

Subscription

Azure subscription 1

Resource group name

az104-rg2

Region

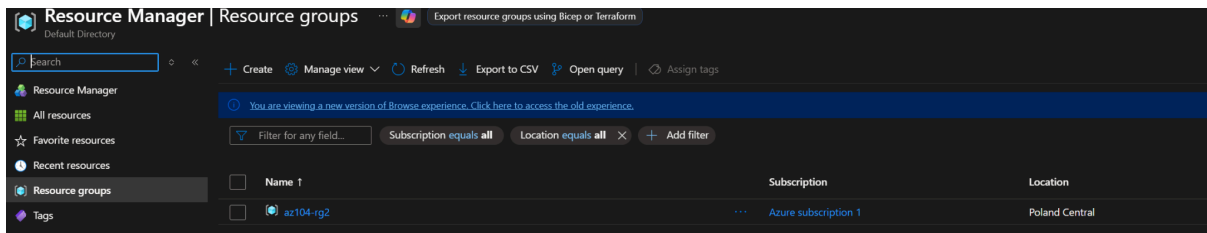
Poland Central

Tags

Cost Center

000

Створено ресурсну групу



Task 2: Enforce tagging via an Azure Policy.

Призначаємо політику

Assign policy

Basics Parameters Remediation Non-compliance messages Review + create

Scope

Scope * Azure subscription 1 [Learn more about setting the scope](#)

Exclusions

Optionally select resources to exclude from the policy assignment.

Resource selectors (Expand)

Using resource selectors, you can further refine this assignment's applicability by targeting specific subsets of resources. Expand to learn more.

Basics

Policy definition * Require a tag and its value on resources

Version (preview) * 1.0.*

Overrides (Expand)

Using overrides, you can change the effects or referenced versions of definitions for all or a subset of resources evaluated by this assignment. Expand to learn more.

Assignment name * ① Require a tag and its value on resources

Description

Policy enforcement ① ☒ Enabled

Assign policy ...

Basics

Parameters

Remediation

Non-compliance messages

Review + create

Basics

Scope	Azure subscription 1/az104-rg2
Exclusions	--
Policy definition	Require a tag and its value on resources
Assignment name	Require Cost Center tag and its value on resources
Version (preview)	1.0.*
Description	Require Cost Center tag and its value on all resources in the resource group
Policy enforcement	Default
Assigned by	Roman Budziak

Advanced

Resource selectors	No selectors associated with this assignment.
Overrides	No overrides associated with this assignment.

Parameters

Tag Name	Cost Center
Tag Value	000

Remediation

Previous

Next

Create



Creating policy assignment succeeded



Creating policy assignment 'Require Cost Center tag and its value on resources' in 'Azure subscription 1/az104-rg2' was successful. Please note that the assignment takes around 5-15 minutes to take effect.

Створення сторедж акаунту

Create a storage account

BasicsAdvancedNetworkingData protectionEncryptionTagsReview + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *

Azure subscription 1

Resource group *

az104-rg2

Create new

Instance details

Storage account name * ⓘ

storageanlab2b

Region * ⓘ

(Europe) Poland Central

Deploy to an Azure Extended Zone

Preferred storage type

Choose preferred storage type

ⓘ This helps us provide relevant guidance. It doesn't restrict your storage to this resource type. [Learn more](#)

Performance * ⓘ

☒ Standard: Recommended for most scenarios (general-purpose v2 account)

Previous

Next

Review + create

Розгортання завершилося невдало, оскільки обліковий запис сховища, який ми намагаємося створити, не має тега Cost Center зі значенням за замовчуванням.

Home > Storage center | Storage accounts (Blobs) >

Create a storage account

Validation failed. [View error details](#)

BasicsAdvancedNetworkingData protectionEncryptionTagsReview + create

[View automation template](#)

Basics

Subscription	Azure subscription 1
Resource group	az104-rg2
Location	Poland Central
Storage account name	storageanlab2b
Preferred storage type	
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled
Access tier	Hot
Enable large file shares	Enabled

Security

Previous

Next

Create

Errors

SummaryRaw Error

Copy Full Error

ERROR VIEW

Resource 'storageanlab2b' was disallowed by policy. (Code: RequestDisallowedByPolicy, Policy(s): Require Cost Center tag and its value on resources [View details](#))

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.

Видаляємо призначену політику

Assign policy

Assign initiative

Refresh

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	Type
Require Cost Center tag and its value on resources	Policy

Delete assignment

Do you want to delete the policy assignment 'Require Cost Center tag and its value on resources'?

YesNo

✓ Successfully deleted assignment

×

Successfully deleted 'Require Cost Center tag and its value on resources' from 'Azure subscription 1/az104-rg2'. Please note that the change takes around 30 minutes to take effect.

Призначаємо нову політику

Assign policy

Basics

Parameters

Remediation

Non-compliance messages

Review + create

scope

Scope *

Azure subscription 1/az104-rg2

Learn more about setting the scope

Exclusions

Optionally select resources to exclude from the policy assignment.

Resource selectors

Expand

Using resource selectors, you can further refine this assignment's applicability by targeting specific subsets of resources. Expand to learn more.

Basics

Policy definition *

Inherit a tag from the resource group if missing

Version (preview) *

1.*

Overrides

Expand

Using overrides, you can change the effects or referenced versions of definitions for all or a subset of resources evaluated by this assignment. Expand to learn more.

Assignment name *

1

Inherit the Cost Center tag and its value 000 from the resource group if missing

Description

Inherit the Cost Center tag and its value 000 from the resource group if missing

Policy enforcement

Enabled

Assign policy

Basics

Parameters

Remediation

Non-compliance messages

Review + create

By default, this assignment will only take effect on newly created resources. Existing resources can be updated via a remediation task after the policy is assigned. For deployIfNotExists policies, the remediation task will deploy the specified template. For modify policies, the remediation task will edit tags on the existing resources.

✓

Create a remediation task

Policy to remediate

Inherit a tag from the resource group if missing

Managed Identity

Policies with the deployIfNotExists and modify effect types need the ability to deploy resources and edit tags on existing resources respectively. To do this, choose between an existing user assigned managed identity or creating a system assigned managed identity. Learn more about Managed Identity.

Create a Managed Identity

✓

Type of Managed Identity

System assigned managed identity

User assigned managed identity

System assigned identity location

(US) East US

Assign policy

Basics

Parameters

Remediation

Non-compliance messages

Review + create

Description

Inherit the Cost Center tag and its value 000 from the resource group if missing

Policy enforcement

Default

Assigned by

Roman Budziak

Advanced

Resource selectors

No selectors associated with this assignment.

Overrides

No overrides associated with this assignment.

Parameters

Tag Name

Cost Center

Remediation

Create a Managed Identity

Yes

Type of Managed Identity

System assigned managed identity

System assigned identity location

eastus

Create a remediation task

Yes

Non-compliance messages

Non-compliance messages

No non-compliance messages associated with this assignment.

Previous

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Create

Успішно створено

Assign policyAssign initiativeRefresh

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 1	Scope 1	Type 1
Inherit the Cost Center tag and its value 000 from the resource group if missing	Azure subscription 1/az104-rg2	Policy

Створюємо сторедж акаунт цього разу проходячи валідацію

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

[View automation template](#)

Basics

Subscription	Azure subscription 1
Resource group	az104-rg2
Location	Poland Central
Storage account name	storageanlab2b
Preferred storage type	
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled
Access tier	Hot
Enable large file shares	Enabled

Security

[Previous](#) [Next](#) [Create](#)

Успішно

Home > storageanlab2b_1760958544329 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: storageanlab2b_1760958544329
Subscription: Azure subscription 1
Resource group: az104-rg2

Start time: 10/20/2025, 2:09:36 PM
Correlation ID: 91ab8ea0-0623-4324-a0b7-387313adfb1f

Deployment details

Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

Deployment succeeded

Deployment 'storageanlab2b_1760958544329' to resource group 'az104-rg2' was successful.

[Go to resource](#) [Pin to dashboard](#)

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

Task 4: Configure and test resource locks.

Налаштовуємо та протестуємо блокування ресурсів

Створено блокування

az104-rg2 | Locks

Resource group

☆

...

Can a resource locked for 'ReadOnly' be modified?

How do locks prevent

Created lock

Creating lock 'rg-lock' in resource group 'az104-rg2' succeeded.

Search

+

Add

Refresh

Feedback

Overview

Activity log

Access control (IAM)

Lock name	Lock type	Scope	Notes
rg-lock	Delete	az104-rg2	<div>EditDelete</div>



Видаляємо ресурсну групу

Delete a resource group



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

Resource group to be deleted

 az104-rg2 

Dependent resources to be deleted (1)

All dependent resources, including hidden types, are shown

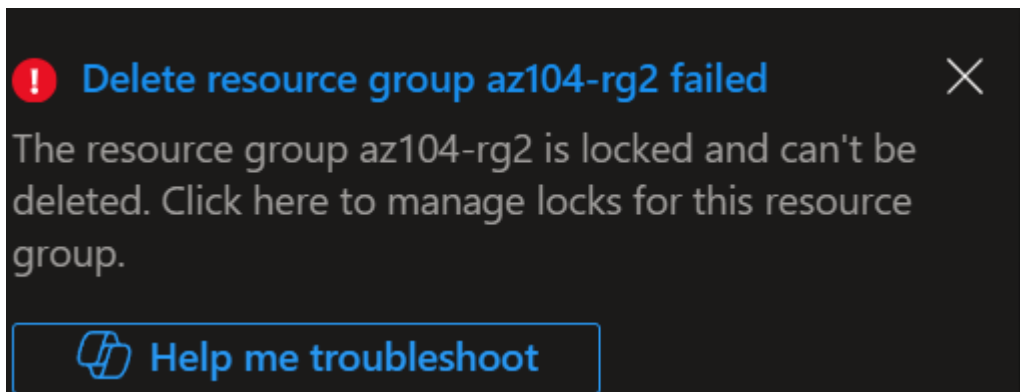
Name	Resource type
 storageanlab2b	Storage account

Enter resource group name to confirm deletion *

Delete

Cancel

Успішно провалюємо спробу видалення через накладене блокування



Висновок: Вивчив як впроваджувати плани управління в організації, як політики Azure можуть забезпечити виконання оперативних рішень в організації