

Introduction to Cloud Computing

LAB 10

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BS-SE 7B

Task 1: Create a Policy assignment

The screenshot shows the Microsoft Azure Policy Definitions page. The left sidebar has sections for Overview, Compliance, Remediation, Events, and Authoring (with Definitions selected). The main area lists policy definitions with columns for Name, Latest version, Definition location, Policy ID, Type, Definition type, and Category. The policies listed are related to virtual machine configurations like disaster recovery, disk access, and migration.

The screenshot shows the Microsoft Azure Policy | Definitions page for the 'Allowed virtual machine size SKUs' policy. It includes tabs for Assign policy, Edit definition, Duplicate definition, Select version (preview), and Delete definition. The 'Edit definition' tab is active, showing the policy's properties: Name (Allowed virtual machine size SKUs), Version (1.0.1), Description (This policy enables you to specify a set of virtual machine size SKUs that your organization can deploy.), Available Effects (Deny), and Category (Compute). The 'Definition' tab is selected, displaying the JSON code for the policy definition:

```
1 {  
2   "properties": {  
3     "displayName": "Allowed virtual machine size SKUs",  
4     "policyType": "Builtin",  
5     "mode": "Indexed",  
6     "description": "This policy enables you to specify a set of virtual machine size SKUs that your organization can deploy.",  
7     "metadata": {  
8       "version": "1.0.1",  
9       "category": "Compute"  
10     },  
11     "version": "1.0.1",  
12     "parameters": {  
13       "listOfAllowedSKUs": {  
14         "type": "array",  
15         "items": "string"  
16       }  
17     }  
18   }  
19 }
```

Microsoft Azure

Home > Policy | Assignments >

Assign policy

Basics Parameters Remediation Non-compliance messages Review + create

Scope
Scope * Azure for Students 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 application to specific subsets of resources. Expand to learn more.

Basics
Policy definition *

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

Assignment name * ()

Description

Policy enforcement () Enabled

Previous Next Review + create

Available Definitions

Allowed locations Policy type : All policy types Category : All categories

Policy name	Latest version (pr...)	Category	Type
Azure Cosmos DB allowed locations	1.1.0	Cosmos DB	Builtin
Allowed locations	1.0.0	General	Builtin
Allowed locations for resource groups	1.0.0	General	Builtin

1 out of 1 policies selected

Add Cancel Give feedback

Microsoft Azure

Home > Policy

Policy | Assignments

Search Assign policy Assign initiative Refresh

Overview Compliance Remediation Events Authoring Definitions **Assignments** Machine Configuration Exemptions

Filter by name or ID... Scope : Azure for Students Definition type : All definition types

Total Assignments 4 Initiative Assignments 1 Policy Assignments 3

Assignment name	Scope	Type
Allowed resource deployment regions	Azure for Students	Policy
ASC Default (subscription: 504b0a3b-5612-41db-b87d-61c0d67009e3)	Azure for Students	Initiative
Require a tag and its value on resource groups	Azure for Students	Policy
Allowed locations	Azure for Students	Policy

Edit columns Export to CSV Give feedback

<https://portal.azure.com/#usingCtrl+Shift+F>

Task 2: Test Allowed location policy

The screenshot shows the 'Create a storage account' wizard in Microsoft Azure. The 'Review + create' step is active. A validation error message is displayed: 'Validation failed. Required information is missing or not valid.' Below it, a detailed error message states: 'Resource 'myRGPolicy' was disallowed by policy. Policy identifiers: [{"policyAssignment":{"name":"Require a tag and its value on resource groups","id":"/subscriptions/504b0a3b-5612-41db-b87d-61c0d67009e3/providers/Microsoft.Authorization/policyAssignments/322edf32dff44d8ba27ff1b4"}, "policyDefinition": {"name":"Require a tag and its value on resource groups","id":"/providers/Microsoft.Authorization/policyDefinitions/8ce3da23-7156-49e4-b145-24f959dc846","version":"1.0.0"}}].'

Basics

Subscription	Azure for Students
Resource group	myRGPolicy
Location	Central India
Storage account name	storageaccount697
Preferred storage type	
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

Advanced

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled

Buttons: Previous, Next, Create, Give feedback.

Task 3: Delete the policy assignment

The screenshot shows the 'Allowed locations' policy assignment in the Microsoft Azure Policy assignments section. The assignment details are as follows:

Name	: Allowed locations	Scope	: Azure for Students
Definition version (preview)	: 1.*.*	Excluded scopes	: --
Description	: --	Definition type	: Policy
Assignment ID	: /subscriptions/504b0a3b-5612-41db-b87d-61c0d67009e3/providers/microsoft.aut...	Policy enforcement	: Default
Assigned by	: --		

Buttons: Edit assignment, Delete assignment, Duplicate assignment, View compliance, View definition, Create exemption, Create remediation task.

Parameters (1) Resource selectors (0) Overrides (0) Exemptions (0) Remediation (0) Deployed resources Managed Identity

Search by parameter name All types

Parameter ID: listOfAllowedLocations Parameter name: Allowed locations Parameter value: ["japanwest"] Policy assignment parameter reference type: User defined parameter

Buttons: Edit columns, Give feedback.

Microsoft Azure

Home > Policy

Policy | Assignments

Search

Assign policy Assign initiative Refresh

Overview Compliance Remediation Events Authoring Definitions Assignments

Search Filter by name or ID... Scope : Azure for Students Definition type : All definition types

Total Assignments 3 Initiative Assignments 1 Policy Assignments 2

Assignment name	Scope	Type
Allowed resource deployment regions	Azure for Students	Policy
ASC Default (subscription: 504b0a3b-5612-41db-b87d-61c0d67009e3)	Azure for Students	Initiative
Require a tag and its value on resource groups	Azure for Students	Policy

Edit columns Export to CSV

Successfully deleted assignment Successfully deleted 'Allowed locations' from 'Azure for Students'. Please note that the change takes around 30 minutes to take effect.

Add or remove favorites by pressing Ctrl + Shift + F

Home > storageaccount497_1762421596598 | Overview >

storageaccount497

Storage account

Search

Upload Open in Explorer Delete Move Refresh Open in mobile CLI / PS Feedback

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser Storage Mover Partner solutions Resource visualizer Data storage Security + networking Data management Settings Monitoring Monitoring (classic)

Help me write an LCM rule for this storage account Improve storage account data protection Prevent unauthorized access to this storage account

Essentials

Resource group (move)	: rg3	Performance	: Standard
Location	: centralindia	Replication	: Read-access geo-redundant storage (RA-GRS)
Primary/Secondary Loca...	: Primary: Loading..., Secondary: Loading...	Account kind	: StorageV2 (general purpose v2)
Subscription (move)	: Azure for Students	Provisioning state	: Succeeded
Subscription ID	: db878fcc-8781-42d0-a61d-55de3d976446	Created	: 06/11/2025, 14:33:35
Disk state	: Primary: Available, Secondary: Available		
Tags (edit)	: Company: Contoso		

Properties Monitoring Capabilities (0) Recommendations (0) Tutorials Tools + SDKs

Blob service Security

Hierarchical namespace	Disabled	Require secure transfer for REST API operations	Enabled
Default access tier	Hot	Storage account key access	Enabled
Blob anonymous access	Disabled	Minimum TLS version	Version 1.2
Blob soft delete	Enabled (7 days)	Infrastructure encryption	Disabled
Container soft delete	Enabled (7 days)		
Versioning	Disabled		
Change feed	Disabled		
NFS v3	Disabled		

Networking

Public network access	Enabled
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