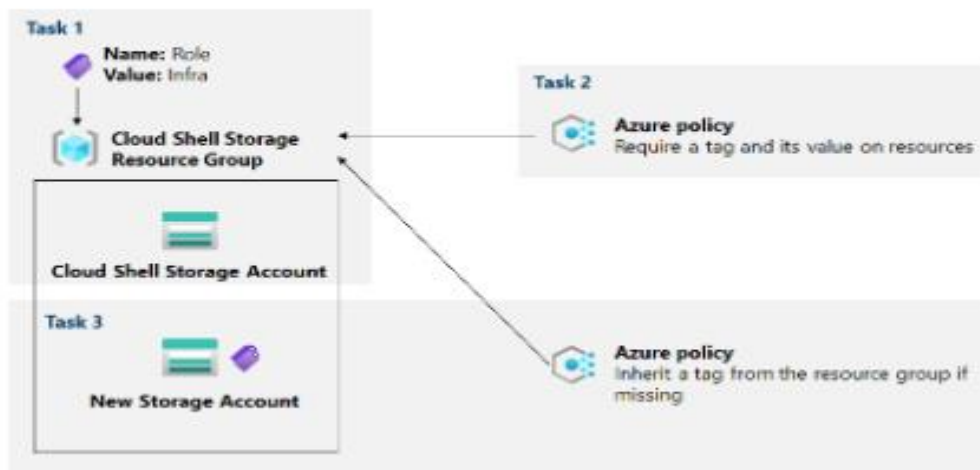


# Lab 02b - Manage Governance via Azure Policy.

## Architecture diagram



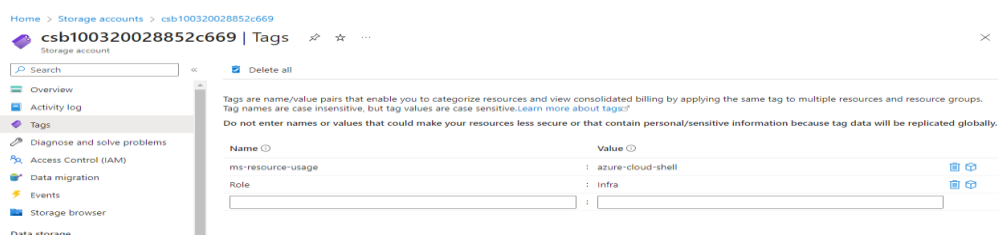
- Task 1: Create and assign tags via the Azure portal.
  - In this task, you will create and assign a tag to an Azure resource group via the Azure portal.

```
PowerShell v7.2.0
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

MOTD: Azure Cloud Shell now includes Predictive IntelliSense! Learn more: https://aka.ms/CloudShell/IntelliSense

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
PS /home/stanislav> df
Filesystem                                1K-blocks      Used Available Use% Mounted on
overlay                                  50620216    32576548    18027284    65% /
tmpfs                                     65536           0      65536     0% /dev
tmpfs                                    2013272           0    2013272     0% /sys/fs/cgroup
/dev/sda1                               50620216    32576548    18027284    65% /home
shm                                     65536           0      65536     0% /dev/shm
//csb100320028852c669.file.core.windows.net/cs-stanislavnikolovnew1-outlook-com-100320028852c669 6291456    5242880    1048576    84% /usr/cuser/cloudrive
tmpfs                                    2013272           0    2013272     0% /proc/acpi
tmpfs                                    2013272           0    2013272     0% /proc/scsi
tmpfs                                    2013272           0    2013272     0% /sys/firmware
/dev/loop0                              5074592         608    4795456     1% /home/stanislav
PS /home/stanislav>
```

- path designating: csb100320028852c669 and creating a new tag



- 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.

**Require a tag and its value on resources**

Policy definition

Assign Edit definition Duplicate definition Delete definition Export definition

**Essentials**

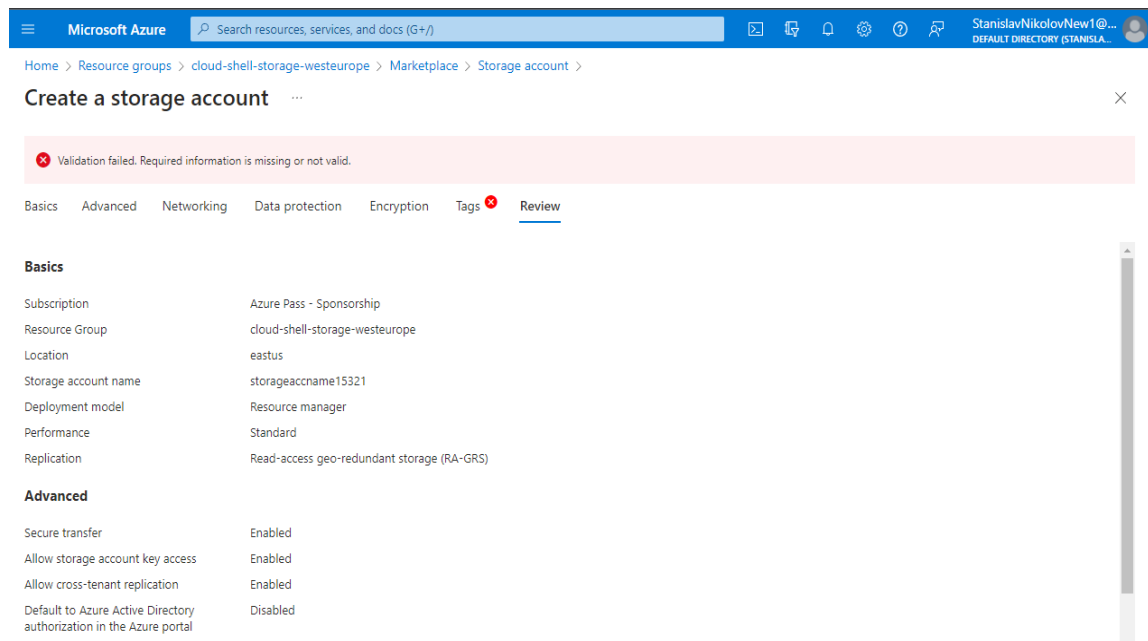
Name	: Require a tag and its value on resources	Definition location	: --
Description	: Enforces a required tag and its value. Does not apply to resource groups.	Definition ID	: /providers/Microsoft.Authorization/policyDefinitions/1e30110a-5ceb-46...
Available Effects	: Deny	Type	: Built-in
Category	: Tags	Mode	: Indexed

**Definition** Assignments (0) Parameters

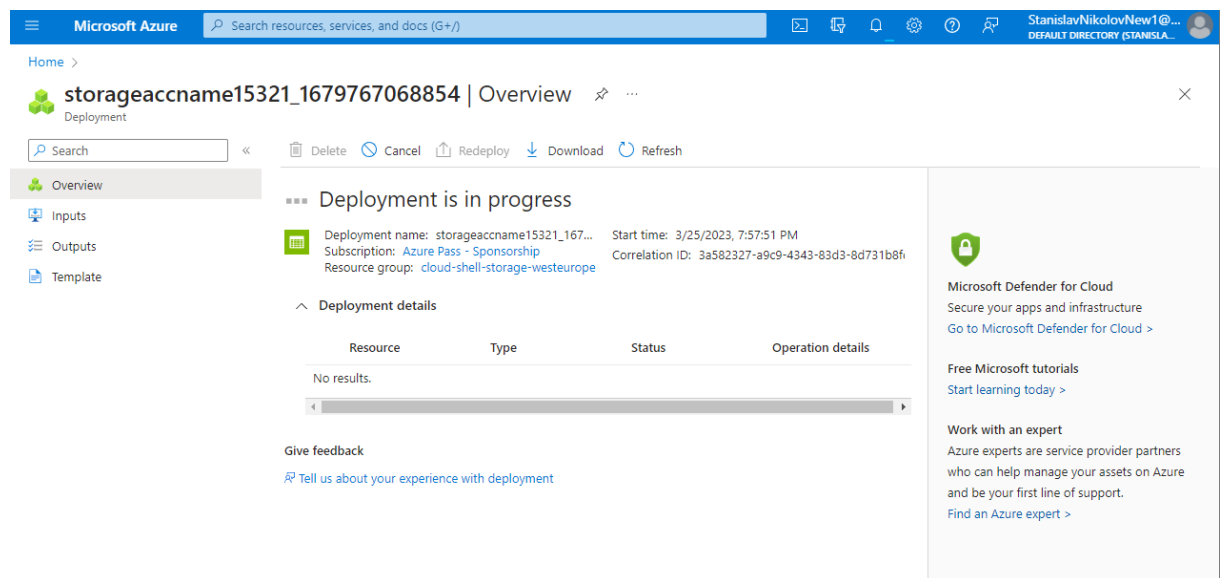
```

5      "mode": "Indexed",
6      "description": "Enforces a required tag and its value. Does not apply to resource groups.",
7      "metadata": {
8        "version": "1.0.1",
9        "category": "Tags"
10     },
11     "parameters": {
12       "tagName": {
13         "type": "String",
14         "metadata": {
15           "displayName": "Tag Name",
16           "description": "Name of the tag, such as 'environment'"
17         }
18       },
19       "tagValue": {
20         "type": "String",
21         "metadata": {
22           "displayName": "Tag Value",
23           "description": "Value of the tag, such as 'production'"
24         }
25       }
26     },
27     "policyRule": {
28       "if": {
29         "not": {
30           "field": "[concat('tags[', parameters('tagName'), ']')]",
31           "equals": "[parameters('tagValue')]"
32         }
33       },
34       "then": {
35         "effect": "deny"
36       }
37     }
  
```

- Creating an assignment policy



- Expected validation error, which we can fix by adding the tag.



- Created new Storage Account.

- Task 3: Apply tagging via an Azure policy.
  - In this task, we will use a different policy definition to remediate any non-compliant resources.

- Creating a new assignment policy.

- Creating new storage account, with automatically assigned tag Role: Infra.