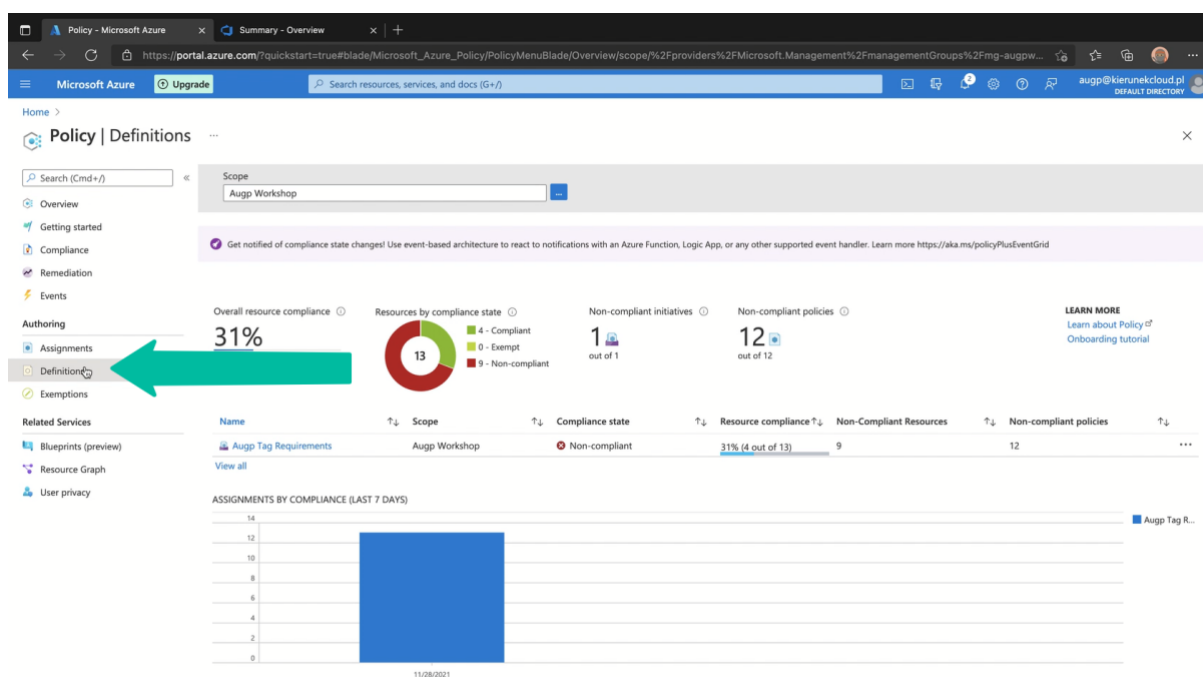


Ćwiczenie 5 – custom Azure Policy z Azure Bicep

1. Sklonuj repozytorium: <https://github.com/kwiecek/augp-workshop-3>
2. Przeglądnij się procesowi tworzenia custom Azure Policy.



https://portal.azure.com/?quickstart=true#blade/Microsoft_Azure_Policy/PolicyMenuBlade/Defi...

Scope: Augo Workshop

Definition type: All definition types

Category: 1 categories

Search: sku

Now export your definitions and assignments to GitHub and manage them using act

Name	Definition location	Policies	Type	Definition type	Category
Container registries should have SKUs that support Private Links			Built-in	Policy	Container Registry

Policy - Microsoft Azure | Summary - Overview

https://portal.azure.com/?quickstart=true#blade/Microsoft_Azure_Policy/PolicyMenuBlade/Definitions/scope/%2Fproviders%2FMicrosoft.Management%2FmanagementGroups%2Fmg-augp...

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > Policy

Policy | Definitions

Search (Cmd+/) < + Policy definition + Initiative definition > Export definitions Refresh

Scope: Augo Workshop Definition type: All definition types Category: 1 categories Search: sku

Now export your definitions and assignments to GitHub and manage them using actions! Click on 'Export definition' menu option. Learn more

Name ↑↓	Definition location ↑↓	Policies ↑↓	Type ↑↓	Definition type ↑↓	Category
Container registries should have SKUs that support Private Links			Built-in	Policy	Container

Authoring

- Assignments
- Definitions
- Exemptions

Related Services

- Blueprints (preview)
- Resource Graph
- User privacy

Container registries should have SKUs that support Private Links

Policy definition

Assign Edit definition Duplicate definition Delete definition Export definition

Essentials

Name: Container registries should have SKUs that support Private Links Definition location: --

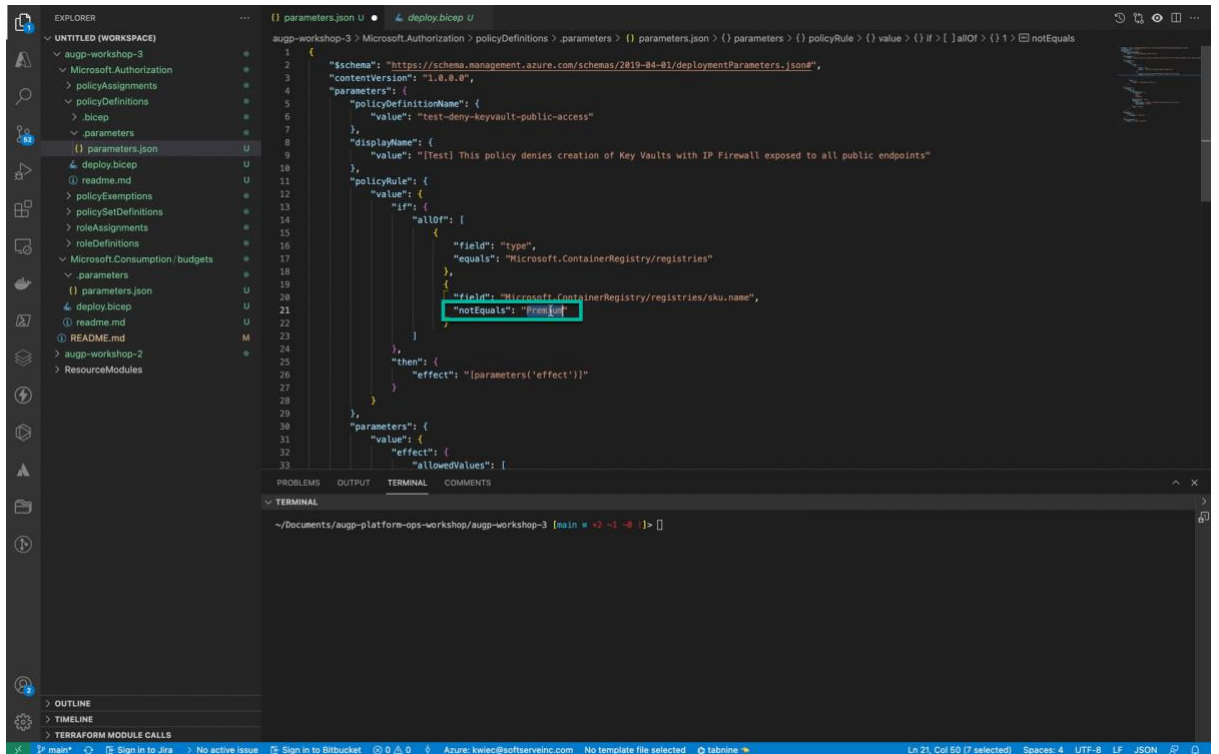
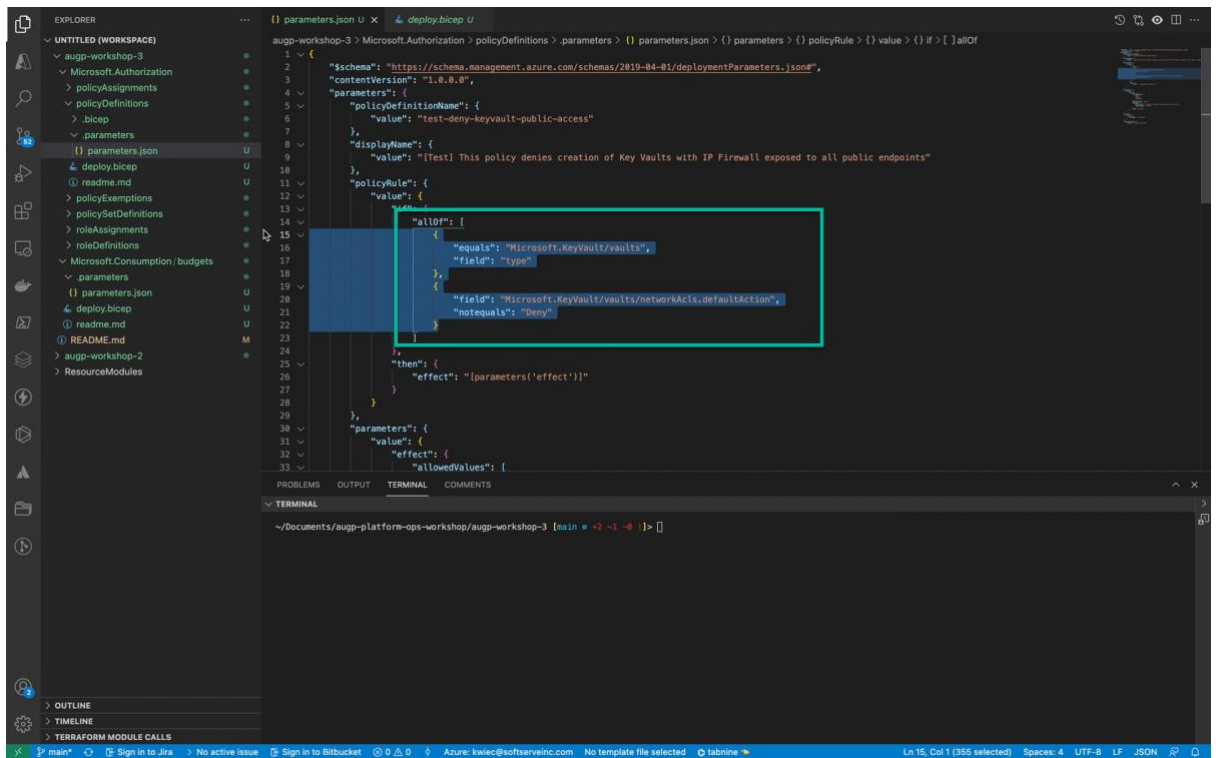
Description: Azure Private Link lets you connect your virtual network to Azure services without a public IP address at the source... Definition ID: /providers/Microsoft.Authorization/policyDefinitions/bd560fc0-3c69-498a-ae9f-aa8eb7de0e13

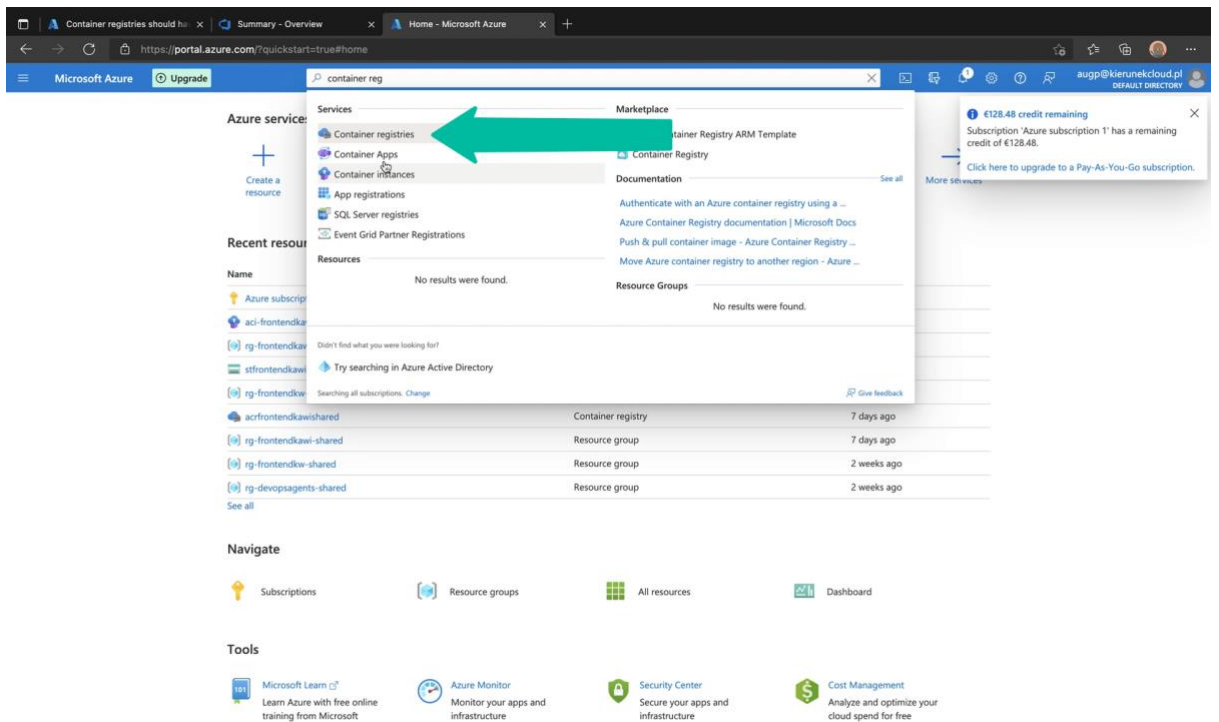
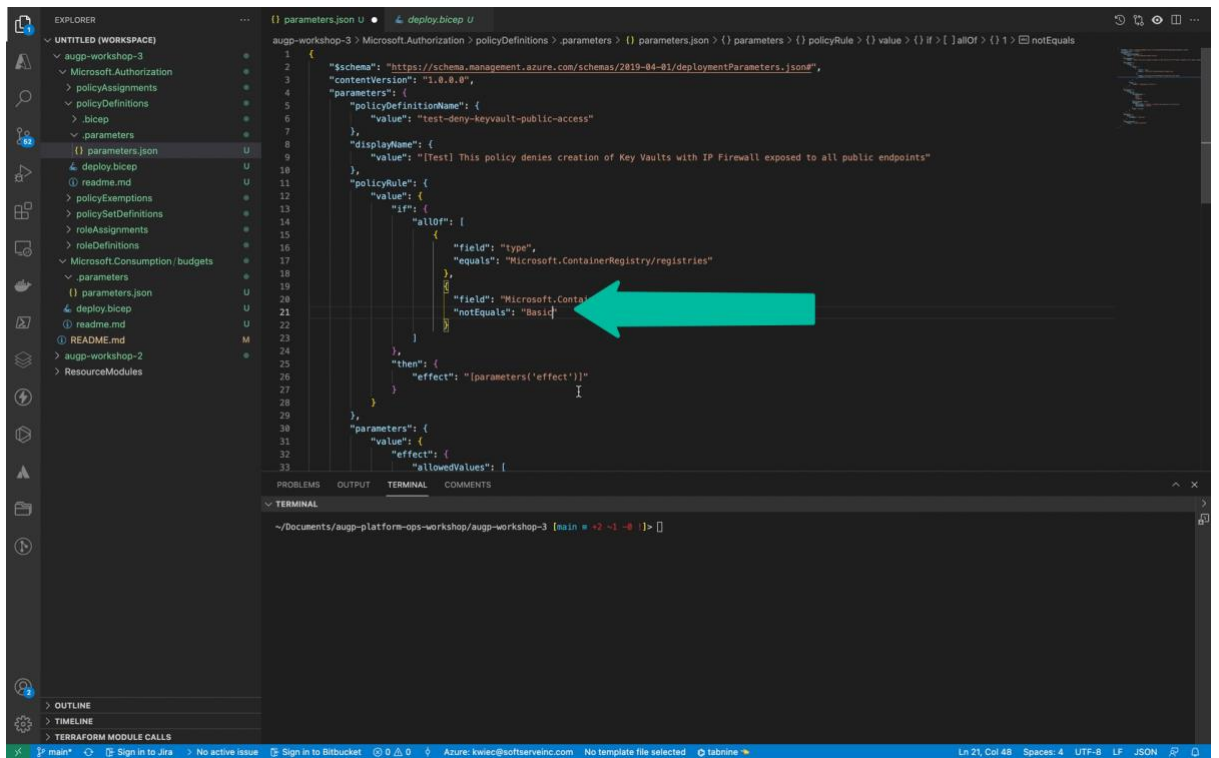
Available Effects: Audit, Deny, Disabled Type: Built-in

Category: Container Registry Mode: Indexed

Definition Assignments (0) Parameters

```
11  "parameters": {
12    "effect": {
13      "type": "String",
14      "metadata": {
15        "displayName": "Effect",
16        "description": "Enable or disable the execution of the policy"
17      },
18      "allowedValues": [
19        "Audit",
20        "Deny",
21        "Disabled"
22      ],
23      "defaultValue": "Audit"
24    }
25  },
26  "policyRule": {
27    "if": {
28      "allOf": [
29        {
30          "field": "type",
31          "equals": "Microsoft.ContainerRegistry/registries"
32        },
33        {
34          "field": "Microsoft.ContainerRegistry/registries/sku.name",
35          "notEquals": "Premium"
36        }
37      ]
38    },
39    "then": {
40      "effect": "[parameters('effect')]"
41    }
42  },
43  }
```





Container registries should be... Summary - Overview acrfrentendkawishared - Micr... +

https://portal.azure.com/?quickstart=true#@augpkierunekcloud.onmicrosoft.com/resource/subscriptions/aad861cc-eb76-42fd-9f9e-29f1aa3e1465/resourceGroups/rg-frontendkawi-shared...

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

Home > Container registries > acrfrentendkawishared

Container registry

Filter for any field...

Name ↑

acrfrentendkawishared

Services

Repositories

Webhooks

Repository permissions

Scope maps (Preview)

Automation

Export template

Move Delete Update

Tell us about your experience using Azure Container Registry →

Essentials

Resource group (Move) : rg-frontendkawi-shared Login server : acrfrentendkawishared.azurecr.io

Location : West Europe Creation date : 11/22/2021, 1:48 PM GMT+1

Subscription (Move) : Azure subscription 1 SKU : Basic

Subscription ID : aad861cc-eb76-42fd-9f9e-29f1aa3e1465 Provisioning state : Succeeded

Usage

Included in SKU 10.0 GiB Used 0.05 GiB Additional storage 0.00 GiB

ACR Tasks

Build, Run, Push and Patch containers in Azure with ACR Tasks. Tasks supports Windows, Linux and ARM with QEMU.

Learn more

Container security integrations

Azure Security Center

Vulnerability management, runtime protection, and hardening recommendations for your containers and container environments.

Learn more

Registry metrics

Show data for time period

1 hour 6 hours 12 hours 1 day 7 days 30 days

Image pull count Image push count

Container registries should be... Summary - Overview acrfrentendkawishared - Micr... +

https://portal.azure.com/?quickstart=true#@augpkierunekcloud.onmicrosoft.com/resource/subscriptions/aad861cc-eb76-42fd-9f9e-29f1aa3e1465/resourceGroups/rg-frontendkawi-shared...

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

Home > Container registries > acrfrentendkawishared

acrfrentendkawishared | Export template

Container registry

Download Add to library (preview) Deploy Visualize template

To export related resources, select the resources from the Resource Group view then select the "Export template" option from the tool bar.

Include parameters

Template Parameters Scripts

Parameters (1)

Variables (0)

Resources (1)

[parameters('registries_acrfrentendkawishared')] (Microsoft.ContainerRegistry/registries)

```
1 {
2   "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "registries_acrfrentendkawishared_name": {
6       "defaultValue": "acrfrentendkawishared",
7       "type": "String"
8     },
9   },
10  "variables": {},
11  "resources": [
12    {
13      "type": "Microsoft.ContainerRegistry/registries",
14      "apiVersion": "2021-06-01-preview",
15      "name": "[parameters('registries_acrfrentendkawishared_name')]",
16      "location": "West Europe",
17      "sku": {
18        "name": "Basic",
19        "tier": "Basic"
20      },
21      "properties": {
22        "adminUserEnabled": true,
23        "policies": {
24          "quarantinePolicy": {
25            "status": "disabled"
26          },
27          "trustPolicy": {
28            "type": "Notary",
29            "status": "disabled"
30          },
31          "retentionPolicy": {
32            "days": 7,
33            "status": "disabled"
34          },
35          "exportPolicy": {
```

EXPLORER

- UNTITLED (WORKSPACE)
- augp-workshop-3
 - Microsoft.Authorization
 - policyAssignments
 - policyDefinitions
 - .bicep
 - parameters
 - { parameters.json
 - deploy.bicep
 - readme.md

parameters.json

```
{
  "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentParameters.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
    "policyDefinitionName": {
      "value": "policy-deny-expansive-acr"
    },
    "displayName": {
      "value": "[Test] Deny Expansive ACR"
    },
    "policyRule": {
      "value": {
        "if": {
          "allOf": [
            {
              "field": "type",
              "equals": "Microsoft.ContainerRegistry/registries"
            },
            {
              "field": "Microsoft.ContainerRegistry/registries/sku.name",
              "notEquals": "Basic"
            }
          ]
        },
        "then": {
          "effect": "deny"
        }
      }
    },
    "parameters": {
      "value": {
        "effect": {
          "allowedValues": [

```

TERMINAL

```
~/Documents/augp-platform-ops-workshop/augp-workshop-3 [main # +2 ~1 -0 ]>
```

EXPLORER

- UNTITLED (WORKSPACE)
- augp-workshop-3
 - Microsoft.Authorization
 - policyAssignments
 - policyDefinitions
 - .bicep
 - parameters
 - { parameters.json
 - deploy.bicep
 - readme.md

parameters.json

```
{
  "value": "test-deny-keyvault-public-access",
  "displayName": {
    "value": "[Test] This policy denies creation of Key Vaults with IP Firewall exposed to all public endpoints"
  },
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "equals": "Microsoft.ContainerRegistry/registries"
        },
        {
          "field": "Microsoft.ContainerRegistry/registries/sku.name",
          "notEquals": "Premium"
        }
      ]
    },
    "then": {
      "effect": "[parameters('effect')]"
    },
    "parameters": {
      "value": {
        "effect": {
          "allowedValues": [
            "Audit",
            "Deny",
            "Disabled"
          ],
          "defaultValue": "Deny",

```

TERMINAL

```
~/Documents/augp-platform-ops-workshop/augp-workshop-3 [main # +2 ~1 -0 ]>
```


Container registries should have SKUs that support Private Links

Policy definition

Assign Edit definition Duplicate definition Delete definition Export definition

Essentials

Name : Container registries should have SKUs that support Private Links Definition location : --

Description : Azure Private Link lets you connect your virtual network to Azure services without a public IP address at the source... Definition ID : /providers/Microsoft.Authorization/policyDefinitions/bd560fc0-3c69-498a-ae9f-aa8eb7de0e13

Available Effects : Audit, Deny, Disabled Type : Built-in

Category : Container Registry Mode : Indexed

Definition Assignments (0) Parameters

```
1 {
2   "properties": {
3     "displayName": "Container registries should have SKUs that support Private Links",
4     "policyType": "BuiltIn",
5     "mode": "Indexed",
6     "description": "Azure Private Link lets you connect your virtual network to Azure services without a public IP address at the source or destination. The private link platform handles the connectivity between the c
7   },
8   "metadata": {
9     "version": "1.0.0",
10    "category": "Container Registry"
11  },
12  "parameters": {
13    "effect": {
14      "type": "String",
15      "metadata": {
16        "displayName": "Effect",
17        "description": "Enable or disable the execution of the policy"
18      },
19      "allowedValues": [
20        "Audit",
21        "Deny",
22        "Disabled"
23      ],
24      "defaultValue": "Audit"
25    },
26    "policyRule": {
27      "if": {
28        "allOf": [
29          {
30            "field": "type",
31            "equals": "Microsoft.ContainerRegistry/registries"
32          }
33        ]
34      }
35    }
36  }
37 }
```

EXPLORER

UNTITLED (WORKSPACE)

- augp-workshop-3
 - Microsoft.Authorization
 - policyAssignments
 - policyDefinitions
 - .bicep
 - .parameters
 - parameters.json
 - deploy.bicep
 - readme.md
 - policyExemptions
 - policySetDefinitions
 - roleAssignments
 - roleDefinitions
 - Microsoft.Consumption/budgets
 - .parameters
 - parameters.json
 - deploy.bicep
 - readme.md
 - augp-workshop-2
 - ResourceModules

parameters.json

```
1 {
2   "parameters": {
3     "value": {
4       "effect": {
5         "allowedValues": [
6           "Audit",
7           "Deny",
8           "Disabled"
9         ],
10        "defaultValue": "Deny",
11        "metadata": {
12          "description": "Enable or disable the execution of the policy",
13          "displayName": "Effect"
14        },
15        "type": "String"
16      },
17      "category": "Container Registry"
18    },
19    "managementGroupId": {
20      "value": "<<subscriptionId>>"
21    }
22  }
23 }
```

PROBLEMS OUTPUT TERMINAL COMMENTS

TERMINAL

```
~/Documents/augp-platform-ops-workshop/augp-workshop-3 [main # +2 -1 -8 |> ]
```

Augp Workshop - Microsoft Azure | Summary - Overview | aorfrontendkawishared - Micr | +

portal.azure.com/?quickstart=true#blade/Microsoft_Azure_ManagementGroups/ManagementGroupDrilldownMenuBlade/overview/tenantId/6f0f59f0-433d-4b9e-b4a4-309...

Microsoft Azure Upgrade Search resources, services, and docs (G+)

augp@kierunekcloud.pl DEFAULT DIRECTORY

Home > Management groups >

Augp Workshop

Management group

Search (Cmd+/)

CreateAdd subscriptionRefreshRename groupDeleteMoveExpand / Collapse allFeedback

Overview

SubscriptionsResource GroupsResourcesActivity LogAccess control (IAM)GovernanceGet startedSecurityPolicyDeploymentsCost ManagementCost analysisBudgets

Essentials

Name : Augp Workshop

ID : mg-augpworkshop

Access Level : Owner

Path : Tenant Root Group / Augp Workshop

Copy to clipboard

Parent management group : Tenant Root Group

Child management groups : 0

Total subscriptions : 1

Search by name or ID

Showing 1 subscriptions in 1 groups

Name	ID	Total subscriptions
Augp Workshop	mg-augpworkshop	1
Azure subscription 1	aad861cc-eb75-42fd-9f9e-29f1aa3e1465	

3. Wdróż definicję

The screenshot shows the VS Code interface with the Explorer pane on the left displaying the file structure of the 'aug-workshop-3' project. The main editor displays the 'parameters.json' file, which contains the following JSON content:

```
{
  "parameters": {
    "value": {
      "effect": {
        "allowedValues": [
          "Audit",
          "Deny",
          "Disabled"
        ],
        "defaultValue": "Deny",
        "metadata": {
          "description": "Enable or disable the execution of the policy",
          "displayName": "Effect"
        },
        "type": "String"
      }
    },
    "managementGroupId": {
      "value": "mg-augworkshop"
    }
  }
}
```

A red arrow points to the 'managementGroupId' field in the 'parameters' object. The bottom pane shows the 'TERMINAL' output, which is currently empty.

The screenshot shows the VS Code interface with the Explorer pane on the left displaying the file structure of the 'aug-workshop-3' project. The main editor displays the 'parameters.json' file, which contains the following JSON content:

```
{
  "parameters": {
    "value": {
      "effect": {
        "allowedValues": [
          "Audit",
          "Deny",
          "Disabled"
        ],
        "defaultValue": "Deny",
        "metadata": {
          "description": "Enable or disable the execution of the policy",
          "displayName": "Effect"
        },
        "type": "String"
      }
    },
    "managementGroupId": {
      "value": "mg-augworkshop"
    }
  }
}
```

A red arrow points to the 'mg-augworkshop' value in the 'managementGroupId' field. The bottom pane shows the 'TERMINAL' output, which contains the following command and output:

```
~/Documents/aug-platform-ops-workshop/aug-workshop-3 [main * 2 ~1 -0 ]> New-ManagementGroupDeployment -ManagementGroupId mg-augworkshop -Location westeurope -TemplateFile .\Microsoft.Authorization\policyDefinitions\deploy.Bicep -TemplateParameterFile .\Microsoft.Authorization\policyDefinitions\parameters\parameters.json
```

Augp Workshop - Microsoft Azure | Summary - Overview | acrfrentendkawishared - Microsoft Azure

Home > Management groups > Augp Workshop

Augp Workshop | Deployments

Management group

Search (Cmd+/) Refresh Cancel Delete View template

Filter by deployment name or resources in the deployment...

Deployment name	Status	Last modified	Duration	Related events
policy-deny-expansive-acr-mgDeployment	Succeeded	11/29/2021, 4:25:20 PM	1 second	Related events
deploy	Deploying	11/29/2021, 4:25:19 PM	4 seconds	Related events

Overview Subscriptions Resource Groups Resources Activity Log Access control (IAM) Governance Get started Security Policy **Deployments** Cost Management Cost analysis Budgets

mg-augpworkshop/deploy - Microsoft Azure | Summary - Overview | acrfrentendkawishared - Microsoft Azure

Home > Management groups > Augp Workshop

mg-augpworkshop/deploy | Overview

Deployment

Search (Cmd+/) Delete Cancel Refresh

Your deployment is complete

Deployment name: deploy
Tenant: Default Directory
Start time: 11/29/2021, 4:25:17 PM
Correlation ID: 35ab0a5e-d8fe-4c49-97a6-f0d297817d26

Deployment details (Download)

Next steps

[Go to resource](#)

Overview Inputs Outputs Template

Microsoft Defender for Cloud
Secure your apps and infrastructure
[Go to Azure security center >](#)

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 >](#)

Policy - Microsoft Azure | Summary - Overview | acfrontendkashared - Micr... | +

https://portal.azure.com/?quickstart=true#blade/Microsoft_Azure_Policy/PolicyMenuBlade/Definitions/scope/%2Fproviders%2FMicrosoft.Management%2FmanagementGroups%2Fmg-augw... | Search resources, services, and docs (G+)

Microsoft Azure | Upgrade | Search resources, services, and docs (G+)

Home > Management groups > Augw Workshop > Policy

Policy | Definitions

Search (Cmd+/) | Policy definition | Initiative definition | Export definitions | Refresh

Scope: Augw Workshop | Definition type: All definition types | Category: All categories | Search: Filter by name or ID...

Now export your definitions and assignments to GitHub and manage them using actions! Click on 'Export definition' menu option. Learn more

Name	Definition location	Policies	Type	Initiative	Tags
Augw Tag Requirements	Augw Workshop	12	Custom	Initiative	
[Test] Deny Expansive ACR	Augw Workshop		Custom	Policy	Container Registry
NIST SP 800-171 Rev. 2		77	Builtin	Initiative	Regulatory Compliance
Audit machines with insecure password security settin...		9	Builtin	Initiative	Guest Configuration
IRS1075 September 2016		62	Builtin	Initiative	Regulatory Compliance
Configure Linux machines to run Azure Monitor Agen...		4	Builtin	Initiative	Monitoring
Deploy prerequisites to enable Guest Configuration p...		4	Builtin	Initiative	Guest Configuration
NIST SP 800-53 Rev. 5		262	Builtin	Initiative	Regulatory Compliance
CS Microsoft Azure Foundations Benchmark v1.1.0		97	Builtin	Initiative	Regulatory Compliance
Azure Security Benchmark		207	Builtin	Initiative	Security Center
[Preview]: Australian Government ISM PROTECTED		58	Builtin	Initiative	Regulatory Compliance
[Preview]: Configure prerequisites to enable Guest Att...		7	Builtin	Initiative	Trusted Launch
UK OFFICIAL and UK NHS		59	Builtin	Initiative	Regulatory Compliance
[Preview]: Configure Azure Defender for SQL agents o...		2	Builtin	Initiative	Monitoring
[Preview]: SWIFT CSP-CSCF v2020		61	Builtin	Initiative	Regulatory Compliance
Kubernetes cluster pod security restricted standards f...		8	Builtin	Initiative	Kubernetes
PCI v3.2.1:2018		39	Builtin	Initiative	Regulatory Compliance
Canada Federal PBMM		59	Builtin	Initiative	Regulatory Compliance
Enable Azure Monitor for VMs		10	Builtin	Initiative	Monitoring

EXPLORER | PROBLEMS | OUTPUT | TERMINAL | COMMENTS

UNTITLED (WORKSPACE)

- augw-workshop-3
 - Microsoft.Authorization
 - policyAssignments
 - policyDefinitions
 - .bicep
 - .parameters
 - parameters.json
 - deploy.bicep
 - readme.md
 - policyExemptions
 - policySetDefinitions
 - roleAssignments
 - roleDefinitions
 - Microsoft.Consumption/budgets
 - parameters
 - parameters.json
 - deploy.bicep
 - readme.md
 - README.md
 - augw-workshop-2
 - ResourceModules

TERMINAL

```
~/Documents/augw-platform-ops-workshop/augw-workshop-3 [main] => az deployment sub --subscription mg-augworkshop --location westeurope --templatefile ./Microsoft.Authorization/policyDefinitions/parameters/parameters.json --parameters ./parameters.json

DeploymentName      : /providers/Microsoft.Management/managementGroups/mg-augworkshop/providers/Microsoft.Resources/deployments/deploy
ManagementGroupId  : mg-augworkshop
Location            : westeurope
ProvisioningState   : Succeeded
Timestamp          : 29/11/2021 15:25:36
Mode                : Incremental
TemplateLink        :
Parameters          :
  Name              Type              Value
  -----
  policyDefinitionName String            policy-deny-expansive-acr
  displayName        String            [Test] Deny Expansive ACR
  policyDescription   String            All
  mode               String            {
    "category": "Container Registry"
  }
  parameters         Object            {
    "effect": {
      "allowedValues": [
        "Audit",
        "Deny",
        "Disabled"
      ],
      "defaultValue": "Deny",
      "metadata": {
        "description": "Enable or disable the execution of the policy",
        "displayName": "Effect"
      },
      "type": "String"
    }
  }
  policyRule         Object            {
    "if": {
      "allOf": [
        {
          "field": "type",
          "equals": "Microsoft.ContainerRegistry/registries"
        },
        {
          "field": "Microsoft.ContainerRegistry/registries/sku.name",
          "notEquals": "Basic"
        }
      ]
    },
    "then": {
      "effect": "[parameters('effect')]"
    }
  }
  managementGroupId String            mg-augworkshop
  subscriptionId    String            westeurope

Outputs
  Name              Type              Value
  -----
  policyDefinitionName String            policy-deny-expansive-acr
  policyDefinitionId String            /providers/Microsoft.Management/managementGroups/mg-augworkshop/providers/Microsoft.Authorization/policyDefinitions/policy-deny-expansive-acr
  roleDefinitionIds Array              []

DeploymentDebugLogLevel :
```

Ln 55, Col 6 | Spaces: 4 | UTF-8 | LF | JSON

4. Dokonaj assignmentu polisy w podejściu IaC.

The screenshot shows the VS Code interface with the Explorer, Explorer, and Terminal panels. The Explorer panel on the left shows the file structure of the workspace, including 'augp-workshop-3', 'Microsoft.Authorization', 'policyAssignments', 'parameters', and 'allowedLocations.parameters.json'. The Explorer panel on the right shows the content of the 'parameters.json' file, which is a Bicep file. A red arrow points to the 'policyDefinitionId' field in the Bicep file, which is set to the ID of the 'policy-deny-expensive-acr' policy definition. The Terminal panel at the bottom shows the output of the deployment, including the 'managementGroupId', 'subscriptionId', 'location', 'policyDefinitionName', 'policyDefinitionId', and 'roleDefinitionIds'.

```
parameters.json
1 {
2   "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentParameters.json#",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "policyAssignmentName": {
6       "value": "Add a tag to resources"
7     },
8     "policyDefinitionId": {
9       "value": "/providers/Microsoft.Authorization/policyDefinitions/4f9dc7db-38c1-428c-b61a-e1d648128d26"
10    },
11    "parameters": {
12      "value": {
13        "tagName": {
14          "value": "env"
15        },
16        "tagValue": {
17          "value": "prod"
18        }
19      },
20      "location": {
21        "value": "australiaeast"
22      },
23      "subscriptionId": {
24        "value": "<subscriptionId>"
25      }
26    }
27  }
28 }
29 }
```

Terminal Output:

```

    "then": {
      "effect": "[parameters('effect')]"
    }
  }
  managementGroupId String mg-augworkshop
  subscriptionId String
  location String westeurope

Outputs
:
Name Type Value
-----
policyDefinitionName String policy-deny-expensive-acr
policyDefinitionId String /providers/Microsoft.Management/managementGroups/mg-augworkshop/providers/Microsoft.Authorization/policyDefinitions/policy-deny-expensive-acr
roleDefinitionIds Array []

DeploymentDebugLogLevel :
~/Documents/augp-platform-ops-workshop/augp-workshop-3 [main # +2 ~1 -0 ]> |
```

The screenshot shows the VS Code interface with the Explorer, Explorer, and Terminal panels. The Explorer panel on the left shows the file structure of the workspace, including 'augp-workshop-3', 'Microsoft.Authorization', 'policyAssignments', 'parameters', and 'allowedLocations.parameters.json'. The Explorer panel on the right shows the content of the 'parameters.json' file, which is a Bicep file. A red arrow points to the 'policyDefinitionId' field in the Bicep file, which is set to the ID of the 'policy-deny-expensive-acr' policy definition. The Terminal panel at the bottom shows the output of the deployment, including the 'managementGroupId', 'subscriptionId', 'location', 'policyDefinitionName', 'policyDefinitionId', and 'roleDefinitionIds'.

```
parameters.json
1 {
2   "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentParameters.json#",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "policyAssignmentName": {
6       "value": "Add a tag to resources"
7     },
8     "policyDefinitionId": {
9       "value": "/providers/Microsoft.Management/managementGroups/mg-augworkshop/providers/Microsoft.Authorization/policyDefinitions/policy-deny-expensive-acr"
10    },
11    "parameters": {
12      "value": {
13        "tagName": {
14          "value": "env"
15        },
16        "tagValue": {
17          "value": "prod"
18        }
19      },
20      "location": {
21        "value": "australiaeast"
22      },
23      "subscriptionId": {
24        "value": "<subscriptionId>"
25      }
26    }
27  }
28 }
29 }
```

Terminal Output:

```

    "then": {
      "effect": "[parameters('effect')]"
    }
  }
  managementGroupId String mg-augworkshop
  subscriptionId String
  location String westeurope

Outputs
:
Name Type Value
-----
policyDefinitionName String policy-deny-expensive-acr
policyDefinitionId String /providers/Microsoft.Management/managementGroups/mg-augworkshop/providers/Microsoft.Authorization/policyDefinitions/policy-deny-expensive-acr
roleDefinitionIds Array []

DeploymentDebugLogLevel :
~/Documents/augp-platform-ops-workshop/augp-workshop-3 [main # +2 ~1 -0 ]> |
```

EXPLORER

UNTITLED (WORKSPACE)

- augp-workshop-3
 - Microsoft.Authorization
 - policyAssignments
 - bicep
 - parameters
 - allowedLocations.parameters.json
 - listOfAllowedSKUs.parameters.js...
 - parameters.json
 - deploy.bicep
 - readme.md
 - policyDefinitions
 - bicep
 - parameters
 - parameters.json
 - deploy.bicep
 - readme.md
 - policyExemptions
 - policySetDefinitions
 - roleAssignments
 - roleDefinitions
 - Microsoft.Consumption/budgets
 - parameters
 - parameters.json
 - deploy.bicep
 - readme.md
 - README.md
 - augp-workshop-2
 - ResourceModules

parameters.json

```
1 {
2   "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentParameters.json",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "policyAssignmentName": {
6       "value": "deny-exp-acr"
7     },
8     "policyDefinitionId": {
9       "value": "/providers/Microsoft.Management/managementGroups/mg-augpworkshop/providers/Microsoft.Authorization/policyDefinitions/policy-deny-expa..."
10    },
11    "parameters": {
12      "value": {}
13    },
14    "location": {
15      "value": "westeurope"
16    },
17    "managementGroupId": {
18      "value": "mg-augpworkshop"
19    }
20  }
21 }
22
23
```

PROBLEMS OUTPUT TERMINAL COMMENTS

2: push

Outputs

Name	Type	Value
policyDefinitionName	String	policy-deny-expensive-acr
policyDefinitionId	String	/providers/Microsoft.Management/managementGroups/mg-augpworkshop/providers/Microsoft.Authorization/policyDefinitions/policy-deny-expensive-acr
roleDefinitionIds	Array	[]

DeploymentDebugLogLevel :

```
~/Documents/augp-platform-ops-workshop/augp-workshop-3 [main * +2 ~1 -0 ]> New-AzManagementGroupDeployment -ManagementGroupId mg-augpworkshop -location westeurope -TemplateFile ./Microsoft.Authorization/policyAssignments/deploy.bicep -TemplateParameterFile ./Microsoft.Authorization/policyAssignments/parameters/parameters.json
New-AzManagementGroupDeployment: 16:28:42 - Error: Code=InvalidTemplate; Message=Deployment template validation failed: 'The provided value for the template parameter 'policyAssignmentName' at line '17' and column '25' is not valid. Length of the value should be less than or equal to '24'. Please see https://aka.ms/arm-template/parameters for usage details.'
```

New-AzManagementGroupDeployment: The deployment validation failed
~/Documents/augp-platform-ops-workshop/augp-workshop-3 [main * +2 ~1 -0]> New-AzManagementGroupDeployment -ManagementGroupId mg-augpworkshop -location westeurope -TemplateFile ./Microsoft.Authorization/policyAssignments/deploy.bicep -TemplateParameterFile ./Microsoft.Authorization/policyAssignments/parameters/parameters.json

EXPLORER

UNTITLED (WORKSPACE)

- augp-workshop-3
 - Microsoft.Authorization
 - policyAssignments
 - bicep
 - parameters
 - allowedLocations.parameters.json
 - listOfAllowedSKUs.parameters.js...
 - parameters.json
 - deploy.bicep
 - readme.md
 - policyDefinitions
 - bicep
 - parameters
 - parameters.json
 - deploy.bicep
 - readme.md
 - policyExemptions
 - policySetDefinitions
 - roleAssignments
 - roleDefinitions
 - Microsoft.Consumption/budgets
 - parameters
 - parameters.json
 - deploy.bicep
 - readme.md
 - README.md
 - augp-workshop-2
 - ResourceModules

parameters.json

```
1 {
2   "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentParameters.json",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "policyAssignmentName": {
6       "value": "deny-exp-acr"
7     },
8     "policyDefinitionId": {
9       "value": "/providers/Microsoft.Management/managementGroups/mg-augpworkshop/providers/Microsoft.Authorization/policyDefinitions/policy-deny-expa..."
10    },
11    "parameters": {
12      "value": {}
13    },
14    "location": {
15      "value": "westeurope"
16    },
17    "managementGroupId": {
18      "value": "mg-augpworkshop"
19    }
20  }
21 }
22
23
```

PROBLEMS OUTPUT TERMINAL COMMENTS

2: push

Outputs

Name	Type	Value
policyDefinitionName	String	policy-deny-expensive-acr
policyDefinitionId	String	/providers/Microsoft.Management/managementGroups/mg-augpworkshop/providers/Microsoft.Authorization/policyDefinitions/policy-deny-expensive-acr
roleDefinitionIds	Array	[]

DeploymentDebugLogLevel :

```
~/Documents/augp-platform-ops-workshop/augp-workshop-3 [main * +2 ~1 -0 ]> New-AzManagementGroupDeployment -ManagementGroupId mg-augpworkshop -location westeurope -TemplateFile ./Microsoft.Authorization/policyAssignments/deploy.bicep -TemplateParameterFile ./Microsoft.Authorization/policyAssignments/parameters/parameters.json
New-AzManagementGroupDeployment: 16:28:42 - Error: Code=InvalidTemplate; Message=Deployment template validation failed: 'The provided value for the template parameter 'policyAssignmentName' at line '17' and column '25' is not valid. Length of the value should be less than or equal to '24'. Please see https://aka.ms/arm-template/parameters for usage details.'
```

New-AzManagementGroupDeployment: The deployment validation failed
~/Documents/augp-platform-ops-workshop/augp-workshop-3 [main * +2 ~1 -0]> New-AzManagementGroupDeployment -ManagementGroupId mg-augpworkshop -location westeurope -TemplateFile ./Microsoft.Authorization/policyAssignments/deploy.bicep -TemplateParameterFile ./Microsoft.Authorization/policyAssignments/parameters/parameters.json

Policy - Microsoft Azure | Summary - Overview | acrfrentendkawishared - Micr... | +

Home > Management groups > Augp Workshop > Policy

Policy | Compliance

Search (Cmd+/) < Assign policy Assign initiative Refresh

Scope: Augp Workshop Type: All definition types Compliance state: All compliance states Search: Filter by name or ID...

Overall resource compliance 31% 4 out of 13

Resources by compliance state 13

- 4 - Compliant
- 0 - Exempt
- 9 - Non-compliant

Non-compliant initiatives 1 out of 1

Non-compliant policies 12 out of 12

Authoring

- Assignments
- Definitions
- Exemptions

Related Services

- Blueprints (preview)
- Resource Graph
- User privacy

Scope	Compliance state	Resource compliance	Non-Compliant Resources	Non-compliant policies
Augp Tag Requirements	Non-compliant	31% (4 out of 13)	9	12

Policy - Microsoft Azure | Summary - Overview | acrfrentendkawishared - Micr... | +

Home > Management groups > Augp Workshop > Policy

Policy | Assignments

Search (Cmd+/) < Assign policy Assign initiative Refresh

Scope: Augp Workshop Definition type: All definition types Search: Filter by name or ID...

Now create custom non-compliance messages for policy assignments. Learn more <https://aka.ms/policyassignmentnoncompliancessage>

Total Assignments 1 Initiative Assignments 1 Policy Assignments 0

Assignment name	Scope	Type
Augp Tag Requirements	Augp Workshop	Initiative

Policy - Microsoft Azure | Summary - Overview | acrfrentendkawishared - Micr...

https://portal.azure.com/?quickstart=true#blade/Microsoft_Azure_Policy/PolicyMenuBlade/Assignments/scope/%2Fproviders%2FMicrosoft.Management%2FmanagementGroups%2Fmgm... | Search resources, services, and docs (G+)

Microsoft Azure | Upgrade | Search resources, services, and docs (G+)

Home > Policy | Assignments

Search (Cmd+/) | Assign policy | Assign initiative | Refresh

Scope: Augo Workshop | Definition type: All definition types | Search: Filter by name or ID...

Now create custom non-compliance messages for policy assignments. Learn more <https://aka.ms/policyassignmentnoncompliancessage>

Total Assignments: 2 | Initiative Assignments: 1 | Policy Assignments: 1

Assignment name	Scope	Type
Augo Tag Requirements	Augo Workshop	Initiative
deny-esp-acr	Augo Workshop	Policy

128.48 credit remaining
Subscription 'Azure subscription 1' has a remaining credit of €128.48.
[Click here to upgrade to a Pay-As-You-Go subscription.](#)

5. Zweryfikuj działanie w praktyce.

acrfrentendkawishared - Micr... | Summary - Overview | acrfrentendkawishared - Micr...

https://portal.azure.com/?quickstart=true#blade/acrgkierunekcloud.onmicrosoft.com/resource/subscriptions/aad861cc-eb75-42fd-9f9e-29f1aa3e1465/resourceGroups/rg-frontendkawi-shared... | Search resources, services, and docs (G+)

Microsoft Azure | Upgrade | Search resources, services, and docs (G+)

Home > Container registries > acrfrentendkawishared

Container registries | Default Directory | Create | Manage view

Filter for any field... | Name: acrfrentendkawishared

Overview | Activity log | Access control (IAM) | Tags | Quick start | Events | Settings | Access keys | Encryption | Identity | Networking | Security | Locks | Services | Repositories | Webhooks | Replications | Tasks | Connected registries (Preview) | Repository permissions | Tokens (Preview) | Scope maps (Preview) | Policies | Content trust

acrfrentendkawishared

Search (Cmd+/) | Move | Delete | Update

Tell us about your experience using Azure Container Registry →

Essentials

Resource group (Move): rg-frontendkawi-shared | Login server: acrfrentendkawishared.azurecr.io | JSON View

Location: West Europe | Creation date: 11/22/2021, 1:48 PM GMT+1

Subscription (Move): Azure subscription 1 | SKU: Basic

Subscription ID: aad861cc-eb75-42fd-9f9e-29f1aa3e1465 | Provisioning state: Succeeded

Usage

Included in SKU: 10.0 GiB | Used: 0.05 GiB | Additional storage: 0.00 GiB

ACR Tasks

Build, Run, Push and Patch containers in Azure with ACR Tasks. Tasks supports Windows, Linux and ARM with QEMU. [Learn more](#)

Container security integrations

Azure Security Center

Vulnerability management, runtime protection, and hardening recommendations for your containers and container environments. [Learn more](#)

Registry metrics

Show data for time period: 1 hour | 6 hours | 12 hours | 1 day | 7 days | 30 days

Image pull count | Image push count

