



Kauno technologijos universitetas
Informatikos fakultetas

P175B120 Paslaugų programavimas debesų kompiuterijoje

Individualus darbas

Nedas Liaudanskis IFF-1/9

Studentas

dėst. Pilkauskas Vytautas

Dėstytojas

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Individualus darbas

Tikslas: įgyti praktinius gebėjimus kurti debesijos programų sistemas, realizuoti jų diagnostiką, stebėjimą, apkrovos valdymą panaudojant Azure Kubernetes Service (AKS).

Programa šiam individualiam darbui buvo praplėsta naudojant MVC WebApp. Prie jau turėto lab2. Darbo buvo pridėta WebApp projektas, kuriame yra atvaizduojami studentai. Tada buvo sukurta nauja resursų grupė Azure platformoje. Toje grupėje sukurtas kibernetikos klasteris ir registras, kuriame laikysime diegimo failus .yaml, kiekvienai projekto mikrosevisų daliai.

Apacioje yra peikiamas kodas, naudotas sugeneruoti registrą, klasterį ir resursų grupę. Taip pat pateikiami diegimo failai.

```
Microsoft Windows [Version 10.0.19045.4412]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Lenovo>cd desktop
C:\Users\Lenovo\Desktop>cd cloud2
The system cannot find the path specified.
C:\Users\Lenovo\Desktop>cd cloud2*
C:\Users\Lenovo\Desktop\Cloud2_New>cd lab4*
C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>az login
Please select the account you want to log in with.
Retrieving tenants and subscriptions for the selection...
[Tenant and subscription selection]
No. Subscription name Subscription ID Tenant
-----
[1] * Azure for Students 378d407a-71db-4cc4-9eb8-40f3ee20caed Kaunas University of Technology
The default is marked with an *; the default tenant is 'Kaunas University of Technology' and subscription is 'Azure for Students' (378d407a-71db-4cc4-9eb8-40f3ee20caed).
Select a subscription and tenant (Type a number or Enter for no changes): 1
Tenant: Kaunas University of Technology
Subscription: Azure for Students (378d407a-71db-4cc4-9eb8-40f3ee20caed)
[Announcements]
With the new Azure CLI login experience, you can select the subscription you want to use more easily. Learn more about it and its configuration at https://go.microsoft.com/fwlink/?linkid=2271236
If you encounter any problem, please open an issue at https://aka.ms/azclibug
[Warning] The login output has been updated. Please be aware that it no longer displays the full list of available subscriptions by default.

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>az login
Please select the account you want to log in with.
Retrieving tenants and subscriptions for the selection...
[Tenant and subscription selection]
No. Subscription name Subscription ID Tenant
-----
[1] * Azure for Students 378d407a-71db-4cc4-9eb8-40f3ee20caed Kaunas University of Technology
The default is marked with an *; the default tenant is 'Kaunas University of Technology' and subscription is 'Azure for Students' (378d407a-71db-4cc4-9eb8-40f3ee20caed).
Select a subscription and tenant (Type a number or Enter for no changes): 1
Tenant: Kaunas University of Technology
Subscription: Azure for Students (378d407a-71db-4cc4-9eb8-40f3ee20caed)
[Announcements]
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If you encounter any problem, please open an issue at https://aka.ms/azclibug
[Warning] The login output has been updated. Please be aware that it no longer displays the full list of available subscriptions by default.
```

With the new Azure CLI login experience, you can select the subscription you want to use more easily. Learn about it here and its configuration at <https://go.microsoft.com/fwlink/?linkid=2272126>

If you encounter any problem, please open an issue at <https://aka.ms/azclibug>

[Warning] The login output has been updated. Please be aware that it no longer displays the full list of available subscriptions by default.

```
C:\Users\lenovo\Desktop\Cloud2_New\lab4-University>az group create --name myResourceGroup --location northeurope
{"id": "/subscriptions/378d407a-71db-4cc4-9eb8-40f3ee20caed/resourceGroups/myResourceGroup",
 "location": "northeurope",
 "managedBy": null,
 "name": "myResourceGroup",
 "properties": {
  "provisioningState": "Succeeded"
 },
 "tags": null,
 "type": "Microsoft.Resources/resourceGroups"
}
```

```
C:\Users\lenovo\Desktop\Cloud2_New\lab4-University>az aks create --resource-group myResourceGroup --name myAKSCluster --node-count 1 --enable-addons monitoring --generate-ssh-keys
SSH key files 'C:\Users\lenovo\.ssh\id_rsa' and 'C:\Users\lenovo\.ssh\id_rsa.pub' have been generated under ~/.ssh to allow SSH access to the VM. If using machines without permanent storage like Azure Cloud Shell without an attached file share, back up your keys to a safe location
{"adProfile": null,
 "addonProfiles": {
  "cni": {
    "config": {
      "logAnalyticsWorkspaceResourceID": "/subscriptions/378d407a-71db-4cc4-9eb8-40f3ee20caed/resourceGroups/DefaultResourceGroup-NEU/providers/Microsoft.OperationalInsights/workspaces/DefaultWorkspace-378d407a-71db-4cc4-9eb8-40f3ee20caed-NEU"
    },
    "enableADAuth": "true"
  },
  "enabled": true,
  "identity": null
 },
 "agentPoolProfiles": [
  {
    "availabilityZones": null,
    "capacityReservationGroupId": null,
    "count": 1,
    "creationData": null,
    "currentOrchestratorVersion": "1.28.9",
    "enableAutoScaling": false,
    "enableEncryptionAtHost": false,
    "enableIps": false,
    "enableNodePublicIp": false,
    "enableUltraSsd": false,
    "gpuInstanceProfile": null,
    "hostGroupId": null,
    "kubeletConfig": null,
    "kubernetesDiskType": "OS",
    "linuxOsConfig": null,
    "maxCount": null,
    "maxPods": 110,
    "minCount": null,
    "mode": "System",
    "name": "nodepool1",
    "networkProfile": null,
    "nodeImageVersion": "AKSUbuntu-2204gen2containerd-202405.03.0",
    "nodeLabels": null,
    "nodePublicIpPrefixId": null,
    "nodeTaints": null,

```

```

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>az acr login --name mycontainerregistry200
Login Succeeded

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker tag studentsapi:dev mycontainerregistry200.azurecr.io/studentsapi:latest

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker tag coursesapi:dev mycontainerregistry200.azurecr.io/coursesapi:latest

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker tag apigateway:latest mycontainerregistry200.azurecr.io/apigateway:latest

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker tag rabbitmq:3-management mycontainerregistry200.azurecr.io/rabbitmq:3-management

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker tag mcr.microsoft.com/mssql/server:2019-latest mycontainerregistry200.azurecr.io/sqldata:latest

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker tag webapp:dev mycontainerregistry200.azurecr.io/webapp:latest

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker push mycontainerregistry200.azurecr.io/studentsapi:latest
The push refers to repository [mycontainerregistry200.azurecr.io/studentsapi]
4fa4c6c97237: Pushed
2594a67c648b: Pushed
be5ff1cb24e9: Pushed
ed40a7c370df: Pushed
ee0b7bc7a49a: Pushed
da34731b43f: Pushed
dd4427064ecc: Pushed
latest: digest: sha256:d2a1c6d1f9713563ad27658be401581ebb3e84cef5d479a5f5c964bb914aa0 size: 1786

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker push mycontainerregistry200.azurecr.io/coursesapi:latest
The push refers to repository [mycontainerregistry200.azurecr.io/coursesapi]
4fa4c6c97237: Mounted from studentsapi
2594a67c648b: Mounted from studentsapi
be5ff1cb24e9: Mounted from studentsapi
ed40a7c370df: Mounted from studentsapi
ee0b7bc7a49a: Mounted from studentsapi
da34731b43f: Mounted from studentsapi
dd4427064ecc: Mounted from studentsapi
latest: digest: sha256:36534cafe4749b3e8dc11f669d20e1e9f04bd53511544f5432d6132e145cd3 size: 1786

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker push mycontainerregistry200.azurecr.io/apigateway:latest
The push refers to repository [mycontainerregistry200.azurecr.io/apigateway]
ae45335ee5a: Pushed
f708f1a8b6: Pushed
4fa4c6c97237: Mounted from coursesapi
2594a67c648b: Mounted from coursesapi
be5ff1cb24e9: Mounted from coursesapi
ed40a7c370df: Mounted from coursesapi
ee0b7bc7a49a: Mounted from coursesapi
da34731b43f: Mounted from coursesapi
dd4427064ecc: Mounted from coursesapi
latest: digest: sha256:22911b0255d9127431c68cf895c3cf1696e30b4f7bf76dc8cfaf7c75392b49e size: 2202

C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>docker push mycontainerregistry200.azurecr.io/rabbitmq:3-management
The push refers to repository [mycontainerregistry200.azurecr.io/rabbitmq]
d5e29935d28c: Pushed
38a6d9c7585: Pushed
c1c46b1b7016: Pushed
fcac85a2089: Pushed
1d48a6d6c330: Pushed
80c9b7411c3c7: Pushed
e1c42e1b5f4c: Pushed
c16fa2a0b31: Pushed

```

```
C:\Users\Lenovo\Desktop\Cloud2_New\Lab4-University>kubectl get all
```

NAME	READY	STATUS	RESTARTS	AGE
pod/apigateway-86886fc5c6-hlvv2	0/1	ImagePullBackOff	0	5m14s
pod/coursesapi-6bbf544f48-vrsh2	0/1	ImagePullBackOff	0	5m17s
pod/rabbitmq-7cd87fd7d9-n57k6	0/1	ImagePullBackOff	0	5m7s
pod/sqldata-748588df9d-v2lgl	0/1	ImagePullBackOff	0	5m9s
pod/studentsapi-68c4f4589-zglgv	0/1	ImagePullBackOff	0	5m19s
pod/studentsapi-7f795b68b6-94l96	0/1	ContainerCreating	0	5s
pod/webapp-756f5d9b4f-rc8db	0/1	ImagePullBackOff	0	5m11s

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
service/apigateway	ClusterIP	10.0.160.50	<none>	5251/TCP	5m14s
service/coursesapi	ClusterIP	10.0.134.15	<none>	5082/TCP	5m17s
service/kubernetes	ClusterIP	10.0.0.1	<none>	443/TCP	55m
service/rabbitmq	ClusterIP	10.0.149.51	<none>	15672/TCP,5672/TCP	5m7s
service/sqldata	ClusterIP	10.0.3.65	<none>	1433/TCP	5m9s
service/studentsapi	ClusterIP	10.0.2.83	<none>	5081/TCP	5m19s
service/webapp	LoadBalancer	10.0.202.162	4.209.161.158	5088:30520/TCP	5m11s

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
deployment.apps/apigateway	0/1	1	0	5m15s
deployment.apps/coursesapi	0/1	1	0	5m18s
deployment.apps/rabbitmq	0/1	1	0	5m8s
deployment.apps/sqldata	0/1	1	0	5m10s
deployment.apps/studentsapi	0/1	1	0	5m20s
deployment.apps/webapp	0/1	1	0	5m12s

NAME	DESIRED	CURRENT	READY	AGE
replicaset.apps/apigateway-86886fc5c6	1	1	0	5m15s
replicaset.apps/coursesapi-6bbf544f48	1	1	0	5m18s
replicaset.apps/rabbitmq-7cd87fd7d9	1	1	0	5m8s
replicaset.apps/sqldata-748588df9d	1	1	0	5m10s
replicaset.apps/studentsapi-68c4f4589	1	1	0	5m20s
replicaset.apps/studentsapi-7f795b68b6	1	1	0	6s
replicaset.apps/webapp-756f5d9b4f	1	1	0	5m12s

apigateway-deployment.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: apigateway
spec:
  replicas: 1
  selector:
    matchLabels:
      app: apigateway
  template:
    metadata:
      labels:
        app: apigateway
    spec:
      containers:
        - name: apigateway
          image: mycontainerregistry200.azurecr.io/apigateway:latest
          env:
            - name: ASPNETCORE_ENVIRONMENT
              value: Development
            - name: ASPNETCORE_HTTP_PORTS
              value: "8080"
          ports:
            - containerPort: 8080
---
apiVersion: v1
kind: Service
metadata:
  name: apigateway
spec:
  selector:
    app: apigateway
  ports:
    - protocol: TCP
      port: 5251
      targetPort: 8080
```

coursesapi-deployment.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: coursesapi
spec:
  replicas: 1
  selector:
    matchLabels:
      app: coursesapi
  template:
    metadata:
      labels:
        app: coursesapi
    spec:
      containers:
        - name: coursesapi
          image: mycontainerregistry200.azurecr.io/coursesapi:latest
          env:
            - name: ASPNETCORE_ENVIRONMENT
              value: Development
            - name: ASPNETCORE_HTTP_PORTS
              value: "8080"
            - name: ConnectionStrings__CoursesApiContext
              value: "Server=sqldata;Database=CoursesDB;User=
Id=sa;Password=My!P@ssw0rd1;Encrypt=False"
            - name: MessageBroker__Host
              value: "amqp://Nedas:test@rabbitmq:5672"
          ports:
            - containerPort: 8080
---
apiVersion: v1
kind: Service
metadata:
  name: coursesapi
spec:
  selector:
    app: coursesapi
  ports:
    - protocol: TCP
      port: 5082
      targetPort: 8080
```

rabbitmq-deployment.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: rabbitmq
spec:
  replicas: 1
  selector:
    matchLabels:
      app: rabbitmq
  template:
    metadata:
      labels:
        app: rabbitmq
    spec:
      containers:
        - name: rabbitmq
          image: mycontainerregistry200.azurecr.io/rabbitmq:3-management
          env:
            - name: RABBITMQ_DEFAULT_USER
              value: Nedas
            - name: RABBITMQ_DEFAULT_PASS
              value: test
          ports:
            - containerPort: 5672
            - containerPort: 15672
---
apiVersion: v1
kind: Service
metadata:
  name: rabbitmq
spec:
  selector:
    app: rabbitmq
  ports:
    - name: rabbitmq-management
      protocol: TCP
      port: 15672
      targetPort: 15672
    - name: rabbitmq-amqp
      protocol: TCP
      port: 5672
      targetPort: 5672
```


sqldata-deployment.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: sqldata
spec:
  replicas: 1
  selector:
    matchLabels:
      app: sqldata
  template:
    metadata:
      labels:
        app: sqldata
    spec:
      containers:
        - name: sqldata
          image: mycontainerregistry200.azurecr.io/sqldata:latest
          env:
            - name: SA_PASSWORD
              value: "My!P@ssw0rd1"
            - name: ACCEPT_EULA
              value: "Y"
          ports:
            - containerPort: 1433
---
apiVersion: v1
kind: Service
metadata:
  name: sqldata
spec:
  selector:
    app: sqldata
  ports:
    - protocol: TCP
      port: 1433
      targetPort: 1433
```

studentsapi-deployment.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: studentsapi
spec:
  replicas: 1
  selector:
    matchLabels:
      app: studentsapi
  template:
    metadata:
      labels:
        app: studentsapi
    spec:
      containers:
        - name: studentsapi
          image: mycontainerregistry200.azurecr.io/studentsapi:latest
          env:
            - name: ASPNETCORE_ENVIRONMENT
              value: Development
            - name: ASPNETCORE_HTTP_PORTS
              value: "8080"
            - name: ConnectionStrings__StudentsAPIContext
              value: "Server=sqldata;Database=StudentDB;User
Id=sa;Password=My!P@ssw0rd1;Encrypt=False"
            - name: MessageBroker__Host
              value: "amqp://Nedas:test@rabbitmq:5672"
          ports:
            - containerPort: 8080
          imagePullSecrets:
            - name: acr-credentials # Reference to the secret created above
---
apiVersion: v1
kind: Service
metadata:
  name: studentsapi
spec:
  selector:
    app: studentsapi
  ports:
    - protocol: TCP
      port: 5081
      targetPort: 8080
```

webapp-deployment.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: webapp
spec:
  replicas: 1
  selector:
    matchLabels:
      app: webapp
  template:
    metadata:
      labels:
        app: webapp
    spec:
      containers:
        - name: webapp
          image: mycontainerregistry200.azurecr.io/webapp:latest
          env:
            - name: ASPNETCORE_ENVIRONMENT
              value: Development
            - name: ASPNETCORE_HTTP_PORTS
              value: "8080"
          ports:
            - containerPort: 8080
---
apiVersion: v1
kind: Service
metadata:
  name: webapp
spec:
  selector:
    app: webapp
  ports:
    - protocol: TCP
      port: 5088
      targetPort: 8080
  type: LoadBalancer
```

4209.161.158/Students

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WebAppHomePrivacyStudents

Students

ID	Last Name	First Name	Enrollment Date
1	Alexander	Carson	09/01/2005
2	Alonso	Meredith	09/01/2002
3	Anand	Arturo	09/01/2003
4	Barzdukas	Gytis	09/01/2002
5	Li	Yan	09/01/2002
6	Justice	Peggy	09/01/2001
7	Norman	Laura	09/01/2003
8	Olivetto	Nino	09/01/2005

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Type here to search

95%17:032024-05-29

pav. 1 Sveteinė paleista per Azure

Microsoft Azure

Search resources, services, and docs (0+)

neddu@kstu.ltKAUNAS UNIVERSITY OF TECH...

Home >

Resource groups

Kaunas University of Technology (kstu.onmicrosoft.com)

CreateManage viewRefreshExport to CSVOpen queryAssign tags

Filter for any field...Subscription equals allLocation equals allAdd filter

Showing 1 to 4 of 4 records

No groupingList view

Name ↑↓	Subscription ↑↓	Location ↑↓	
<input type="checkbox"/> DefaultResourceGroup-NEU	Azure for Students	North Europe	...
<input type="checkbox"/> MC_myResourceGroup_myAKSCluster_northeurope	Azure for Students	North Europe	...
<input type="checkbox"/> myResourceGroup	Azure for Students	North Europe	...
<input type="checkbox"/> NetworkWatcherRG	Azure for Students	North Europe	...

pav. 2 Azure Resursų grupės

Resource groups

myResourceGroup

OverviewActivity logAccess control (IAM)TagsResource visualizerEventsSettingsDeploymentsSecurityDeployment stacksPoliciesPropertiesLocksCost ManagementCost analysisCost alerts (preview)BudgetsAdvisor recommendationsMonitoringInsights (preview)AlertsMetrics

Search

CreateManage viewDelete resource groupRefreshExport to CSVOpen queryAssign tagsMoveDeleteExport templateOpen in mobile

Subscription (more) : Azure for StudentsDeployments : No deployments

Subscription ID : 378d407a-71db-4cc4-9eb8-40f3ee20caedLocation : North Europe

Tags (edit) : Add tags

ResourcesRecommendations

Filter for any field...Type equals allLocation equals allAdd filter

Showing 1 to 3 of 3 records

No groupingList view

Name ↑↓	Type ↑↓	Location ↑↓	
<input type="checkbox"/> MSC-northeurope-myAKSCluster	Data collection rule	North Europe	...
<input type="checkbox"/> myAKSCluster	Kubernetes service	North Europe	...
<input type="checkbox"/> mycontainerregistry200	Container registry	North Europe	...

pav. 3 Resursų grupėje esantys objektai

Microsoft Azure

Home > Resource group > myResourceGroup > myAKSCluster

myAKSCluster

Overview

Essentials

Resource group: myResourceGroup

Status: Succeeded (Running)

Subscription: Azure for Students

Location: North Europe

Subscription ID: 378d407a-71db-4cc4-9eb8-40f3ee20caed

Tags: Add tags

Kubernetes version: 1.28.9

API server address: myaksclust-myresourcegroup-378d40-u7v11wv1hpc.northeurope.azurek8s.io

Network type (plugin): kubenet

Node pools: 1 node pool

Get started Properties Monitoring Capabilities (5) Recommendations (0) Tutorials

Kubernetes services

Encryption type: Encryption at-rest with a platform-managed key

Virtual node pools: Not enabled

Node pools

Node pools: 1 node pool

Kubernetes versions: 1.28.9

Node sizes: Standard_DS2_v2

Configuration

Kubernetes version: 1.28.9

Auto Upgrade Type: -

Automatic upgrade scheduler: -

Node security channel type: Node Image

Security channel scheduler: -

Authentication and Authorization: Local accounts with Kubernetes RBAC

Local accounts: Enabled

Networking

API server address: myaksclust-myresourcegroup-378d40-u7v11wv1hpc.northeurope.azurek8s.io

Network type (plugin): kubenet

Pod CIDR: 10.244.0.0/16

Service CIDR: 10.0.0.0/16

DNS service IP: 10.0.0.10

Docker bridge CIDR: -

Network Policy: None

Load balancer: standard

HTTP application routing: Not enabled

Private cluster: Not enabled

Authorized IP ranges: Not enabled

Application Gateway ingress controller: Not enabled

Integrations

Container insights: Enabled

Workspace resource ID: DefaultWorkspace-378d407a-71db-4cc4-9eb8-40f3ee20caed-NEU

pav. 4 Klasteris

Microsoft Azure

Home > myResourceGroup > mycontainerregistry200

mycontainerregistry200 | Access keys

Registry name: mycontainerregistry200

Login server: mycontainerregistry200.azurecr.io

Admin user: ☒

Username: mycontainerregistry200

Name: Password: Regenerate

password: 95fWnkaGcGugOfnmCQhqq4Mjbx8Bu8g9vZ8k7b0z+AC...

password2: CnYB2Nu0t0eLu0edMj2RHO/9EGvNXHGMTC9COMw+...

Access keys

Encryption

Identity

Networking

Microsoft Defender for Cloud

Properties

Locks

Services

Repositories

Webhooks

Geo-replications

Tasks

Connected registries (Preview)

Cache

Repository permissions

pav. 5

Microsoft Azure

Search resources, services, and docs (Ctrl+K)

notifications bell icon help icon user icon

username@school KAUHAT UNIVERSITY OF TECHNOLOGY

Home > myResourceGroup >

mycontainerregistry200

Container registry

Search

Move Delete

Overview

Activity log

Access control (IAM)

Tags

Quick start

Events

Settings

Access keys

Encryption

Identity

Networking

Microsoft Defender for Cloud

Properties

Locks

Services

Repositories

Webhooks

Geo-replications

Tasks

Connected registries (Preview)

Cache

Repository permissions

Essentials

Resource group (move) : myResourceGroup

Location : North Europe

Subscription (move) : Azure for Students

Subscription ID : 378d407a-71db-4cc4-9eb8-40f3ee20caed

Soft delete (Preview) : Disabled

Tags (edit) : Add tags

Login server : mycontainerregistry200.azurecr.io

Creation date : 5/29/2024, 3:54 PM GMT+3

Provisioning state : Succeeded

Pricing plan : Basic

Get started Monitoring Capabilities (9) Tutorials

Simplify container lifecycle management

Container registry allows you to build, store, and manage container images and artifacts in a private registry for all types of container deployments. [Learn more](#)

Push a Container Image

Get instructions on how to store your container images in your container registry. [Learn more about container images](#)

Push an image

Manage your access controls

Secure your container registry by configuring how users interact with your container registry

Manage access controls

Deploy a container image

Explore the latest ways to control, secure, and streamline artifact deployments in Container Registry - or choose one and get started.

Deploy an image

pav. 6