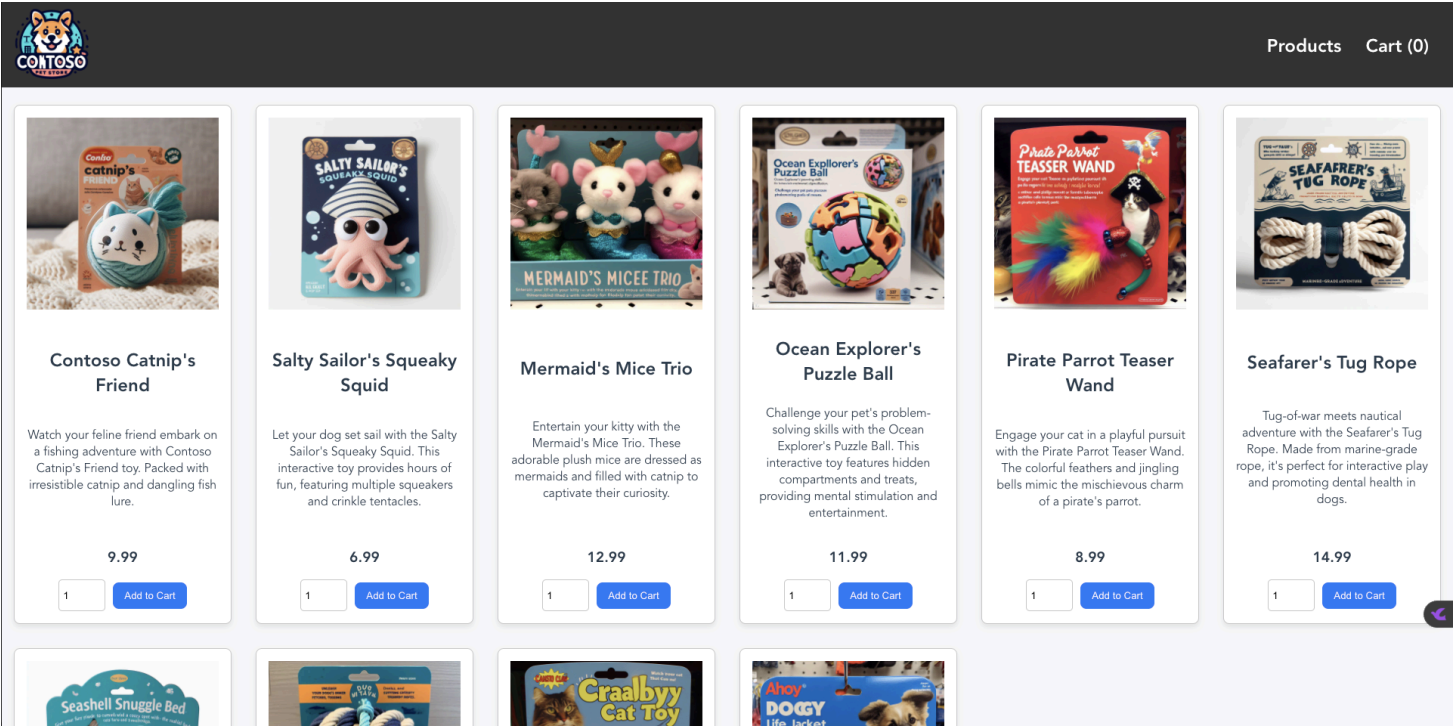


Q4: CI/CD Pipeline for AKS Store Demo Deployment

Screenshots

1. AKS Store Application Running



Microsoft Azure

Home > Resource groups > rg-aks-store-demo >

aks-store-cluster

Kubernetes service

Search resources, services, and docs (G+)

Copilot

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GEORGE BROWN COLLEGE

Overview

- Activity log
- Access control (IAM)
- Tags
- Monitor
- Diagnose and solve problems
- Microsoft Defender for Cloud (preview)
- Cost analysis
- Resource visualizer
- Kubernetes resources
 - Namespaces
 - Workloads
 - Services and ingresses
 - Storage
 - Configuration
 - Custom resources
 - Events
 - Run command
- Settings
 - Node pools
 - Upgrades
 - Security configuration
 - Application scaling
 - Networking

Essentials

Property	Value
Resource group	rg-aks-store-demo
Power state	Running
Cluster operation status	Succeeded
Subscription	Azure for Students
Location	East US
Subscription ID	69a0ceb2-4ba6-4cd4-bb7f-a35a58b1be1e
Fleet Manager	Click here to assign
Tags (edit)	Add tags

JSON View

Get started | **Properties** | Monitoring | Recommendations

Kubernetes services

Property	Value
Encryption type	Encryption at-rest with a platform-managed key
Virtual node pools	Not enabled

Node pools

Property	Value
Node pools	1 node pool
Kubernetes versions	1.30.12
Node sizes	Standard_B2s

Upgrades

Property	Value
Kubernetes version	1.30.12
Auto Upgrade Type	-
Automatic upgrade scheduler	-
Node upgrade channel type	Node Image
Node upgrade channel scheduler	-

Security configuration

Property	Value
Container insights	Not enabled
Workspace resource ID	-
Service Mesh - Istio	Not enabled

Networking

Property	Value
API server address	aks-store--rg-aks-store-dem-69a0ce-nsv3yp7.hcp.eastus.azuremk8s.io
Network configuration	Azure CNI Overlay
Pod CIDR	10.244.0.0/16
Service CIDR	10.0.0.0/16
DNS service IP	10.0.0.10
Cilium dataplane	Not enabled
Network Policy	None
Load balancer	standard
Private cluster	Not enabled
Authorized IP ranges	Not enabled
Application Gateway ingress controller	Not enabled

Menu icon

Munaco / BCDV4034-FinalExam

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Deploy AKS Store Demo - Self-Hosted Runner

Fix deployment to apply YAML to correct namespace #13

Re-run all jobs

Summary

Jobs

Run details

Usage

Workflow file

deploy

succeeded now in 59s

Search logs

Set up job

Checkout code

Azure CLI Login with Managed Identity

Create AKS Cluster

Get AKS Credentials

Deploy AKS Store Demo

```
1 ▶ Run # Create namespace first
41 namespace/aks-store-demo configured
42 statefulset.apps/rabbitmq created
43 configmap/rabbitmq-enabled-plugins created
44 service/rabbitmq created
45 deployment.apps/order-service created
46 service/order-service created
47 deployment.apps/product-service created
48 service/product-service created
49 deployment.apps/store-front created
50 service/store-front created
51 === Checking deployed resources ===
52 NAME                                READY   STATUS    RESTARTS   AGE
53 pod/order-service-5c85f45984-8pvp4  0/1     Init:0/1  0           31s
54 pod/product-service-5b8794b597-96vhd 1/1     Running   0           31s
55 pod/rabbitmq-0                        1/1     Running   0           31s
56 pod/store-front-6ff78d4f79-cpwhn     1/1     Running   0           30s
57 NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
58 service/order-service                ClusterIP           10.0.114.176    <none>            3000/TCP         31s
59 service/product-service              ClusterIP           10.0.71.1      <none>            3002/TCP         31s
60 service/rabbitmq                     ClusterIP           10.0.253.144   <none>            5672/TCP,15672/TCP 31s
61 service/store-front                  LoadBalancer       10.0.228.145    <pending>        80:31088/TCP     30s
62 NAME                                READY   UP-TO-DATE   AVAILABLE   AGE
```

Deployment Results





Services Deployed

- **store-front:** LoadBalancer service (external access)
- **product-service:** ClusterIP service
- **order-service:** ClusterIP service
- **rabbitmq:** StatefulSet with ClusterIP service

Pod Status

- All pods running successfully
- Services properly configured
- LoadBalancer pending external IP assignment

CI/CD Success Metrics

-  Workflow completes successfully
-  All deployment steps pass
-  Services accessible within cluster
-  External access via LoadBalancer