

Azure for .Net Applications

The Bigger Picture



kapuani

About 3.640.000.000 results (0,30 seconds)

Māori – detected



English



kapua



cloud

Jan Vanuytrecht - Toon Van Deuren



Architecture



Governance



Security



Cost



Velocity



Optimization

Challenges

Your cloud journey from planning to reality





Architecture



Governance



Security



Cost



Velocity



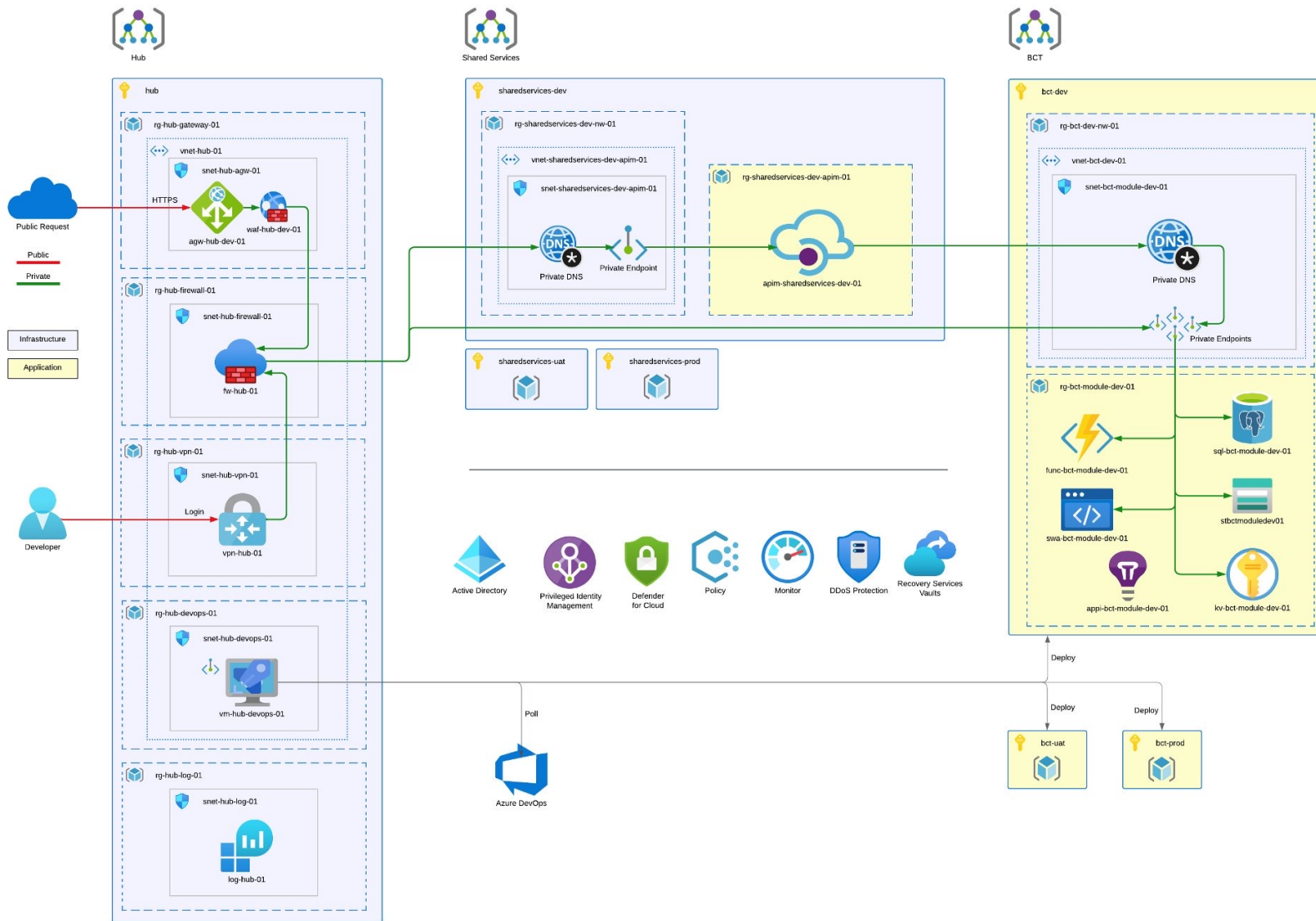
Optimization

Thought process – Recommendations – Best Practices – Implementation

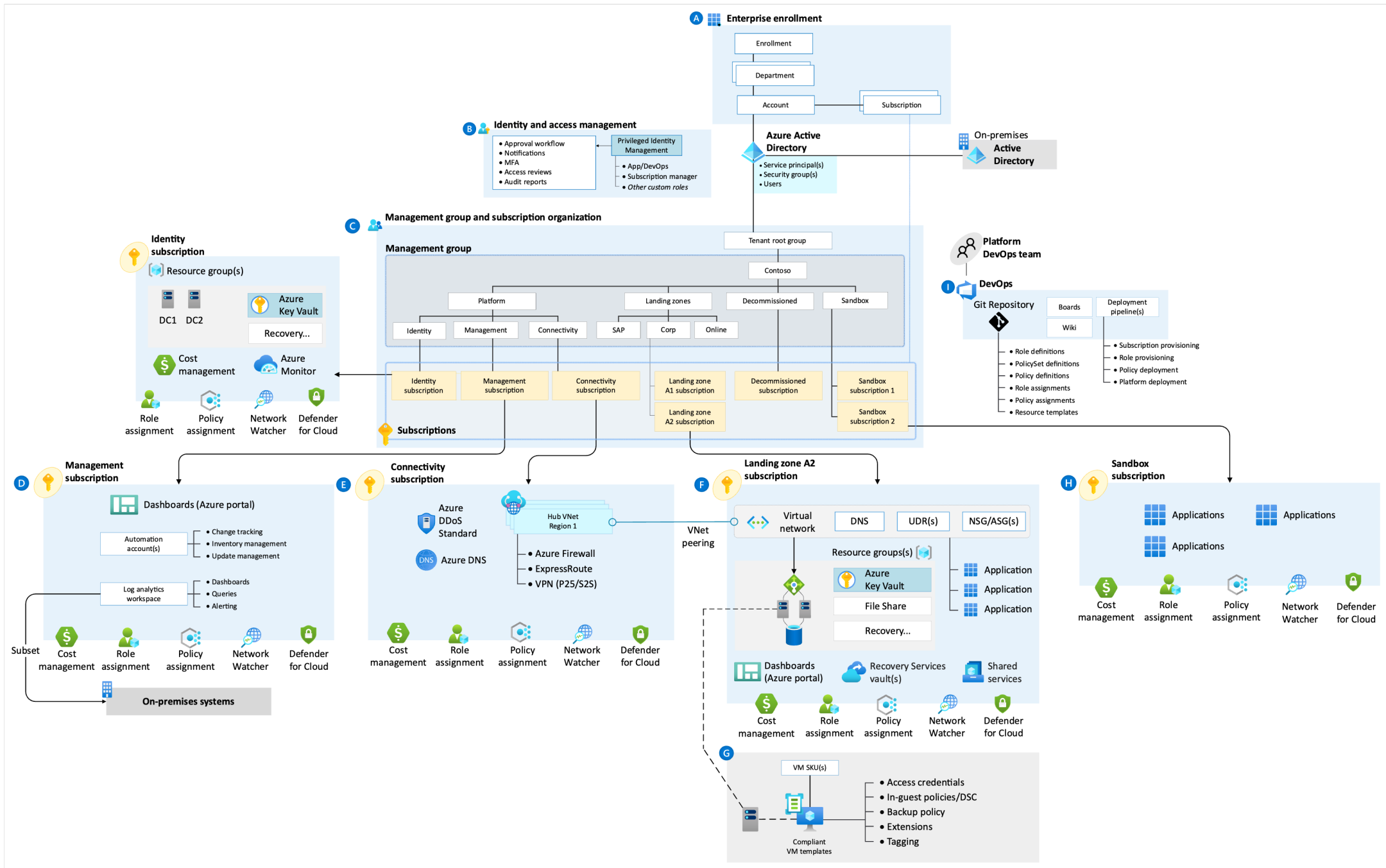
Challenges

Your cloud journey from planning to reality





- Bigger picture
- Flow
- Expectations
 - Availability
 - Service
- Responsibilities
- HLD & LLD document
- Private networking!





Architecture



Governance



Security



Cost



Velocity



Optimization

Zero Trust – Private Networking – Role Based Access Control – Maintenance

Challenges

Your cloud journey from planning to reality










- App Secrets & App settings > Key vault



- Managed identity



APPLICATIONINSIGHTS_CON...	 InstrumentationKey=d327f105-00AE-4182-8635-181fa69a8260;IngestionEndpoint=https://weste	App Service	
StorageAccountConnectionstri...	 DefaultEndpointsProtocol=https;AccountName=sttiadaprodtiadashbweu1;AccountKey=q3zR4Z/C	App Service	

APPLICATIONINSIGHTS_CONNECTION_STRING	 @Microsoft.KeyVault(SecretUri=https://kv-bct-shared-prd-01.vault.azure.net/secrets/ApplnsightsConnectionString)	 Key vault Reference
Bus_ConnectionString	 sb://sb-bct-shared-prd-01.servicebus.windows.net	App Service

Search

Events (preview)

Deployment

Deployment slots

Deployment Center

Performance

Load Testing (Preview)

Settings

Configuration

Authentication

Application Insights

Identity

System assigned User assigned

A system assigned managed identity is restricted to one per resource and is tied to the lifecycle o

Save Discard Refresh Troubleshoot | Got feedback?

Status ⓘ

Off **On**

Object (principal) ID ⓘ

e7fa9088-17b2-4b75-aeab-0afbb5aada2a

Permissions ⓘ

Azure role assignments

i This resource is registered with Microsoft Entra ID. The managed identity can be configured to all

Add role assignment

[Role](#) [Members](#) [Conditions](#) [Review + assign](#)

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

[Job function roles](#) [Privileged administrator roles](#)

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

× Type : All Category : All

Name ↑↓	Description ↑↓
Key Vault Administrator	Perform all data plane operations on a key vault and all objects in it, including certificates, keys, and secrets. Cannot manage key vaults.
Key Vault Certificate User	Read certificate contents. Only works for key vaults that use the 'Azure role-based access control' permission model.
Key Vault Certificates Officer	Perform any action on the certificates of a key vault, except manage permissions. Only works for key vaults that use the 'Azure role-based access control' permission model.
Key Vault Contributor	Lets you manage key vaults, but not access to them.
Key Vault Crypto Officer	Perform any action on the keys of a key vault, except manage permissions. Only works for key vaults that use the 'Azure role-based access control' permission model.
Key Vault Crypto Service Encryption User	Read metadata of keys and perform wrap/unwrap operations. Only works for key vaults that use the 'Azure role-based access control' permission model.
Key Vault Crypto Service Release User	Release keys. Only works for key vaults that use the 'Azure role-based access control' permission model.
Key Vault Crypto User	Perform cryptographic operations using keys. Only works for key vaults that use the 'Azure role-based access control' permission model.
Key Vault Data Access Administrator	Manage access to Azure Key Vault by adding or removing role assignments for the Key Vault Administrator, Key Vault Certificates Officer, Key Vault Certificates User, Key Vault Crypto Officer, Key Vault Crypto Service Encryption User, Key Vault Crypto Service Release User, Key Vault Crypto User, Key Vault Secrets Officer, and Key Vault Secrets User.
Key Vault Reader	Read metadata of key vaults and its certificates, keys, and secrets. Cannot read sensitive values such as secret contents or key materials.
Key Vault Secrets Officer	Perform any action on the secrets of a key vault, except manage permissions. Only works for key vaults that use the 'Azure role-based access control' permission model.
Key Vault Secrets User	Read secret contents. Only works for key vaults that use the 'Azure role-based access control' permission model.
Operator Nexus Key Vault Writer Service Role (Preview)	(Preview) Provides Azure Operator Nexus services the ability to write to a Key Vault. This role is in preview and subject to change.


Showing 1 - 13 of 13 results.

- Resource type specific permissions

Select a condition template. [Learn more](#)


Constrain roles

- Allow user to only assign roles you select

 **Configure**


Constrain roles and principal types

- Allow user to only assign roles you select
- Allow user to only assign these roles to principal types you select (users, groups, or service principals)

 **Configure**


Constrain roles and principals

- Allow user to only assign roles you select
- Allow user to only assign these roles to principals you select

 **Configure**

Allow all except specific roles

- Allow user to assign all roles except the roles you select

 **Configure**

[Reset condition templates](#)

[Open advanced condition editor](#)

Constrain roles and principal types ×

Roles

[+](#) Add role

Key Vault Secrets User 

Storage Blob Data Contributor 

Azure Service Bus Data Owner 

Principal types

Users

Groups

Service principals

- Privileged permissions > RBAC administrator
- Lowest scope possible

Microsoft Defender for Cloud | Overview

Showing 20 subscriptions

Subscriptions What's new

General

Azure subscriptions **20** Assessed resources **2496** Attack paths **--** Security alerts **1**

Overview

Getting started

Recommendations

Attack path analysis

Security alerts

Inventory

Cloud Security Explorer

Workbooks

Community

Diagnose and solve problems

Cloud Security

Security posture

Regulatory compliance

Workload protections

Data security

Firewall Manager

DevOps security

Management

Environment settings

Security solutions

Workflow automation

Security posture

4 Critical recommendations **0** Attack paths **0/0** Overdue recommendations

Environment risk and secure score

All recommendations by risk (317)

Critical **4** | High **4** | Medium **41** | Low **268** | Not evaluated **0**

Total secure score **71%**

Azure 71% | AWS - | GCP -

[Explore your security posture >](#)

Regulatory compliance

Microsoft cloud security benchmark
42 of 65 controls passed

Lowest compliance standards by controls passed

No additional standards are currently monitored.

Open security policies to manage additional compliance standards

[Improve your compliance >](#)

Workload protections

Resource coverage **99%** For full protection, enable 4 resource plans

Alerts by severity

Severity	Count
High	0
Medium	1
Low	0

[Enhance your threat protection capabilities >](#)

Inventory

Unmonitored VMs **3** To better protect your organization, we recommend installing agents

Total Resources **2496**












Unhealthy (132) | Healthy (2318) | Not applicable (46)

[Explore your resources >](#)

- Defender for Cloud

Cloud Workload Protection (CWP)

Microsoft Defender for Cloud provides comprehensive, cloud-native protections from development to runtime in multi-cloud environments.

Plan	Pricing*	Resource quantity
 Servers	Plan 2 (\$15/Server/Month) ⓘ Change plan >	0 servers
 App Service	\$15/Instance/Month ⓘ Details >	2 instances
 Databases  Action required	Selected: 4/4 ⓘ Select types >	Protected: 1/1 instances
 Storage	\$10/Storage account/month \$0.15/GB scanned for On-Upload Malware Scanning (configurable) ⓘ Details >	3 storage accounts
 Containers	\$7/VM core/Month ⓘ Details >	0 container registries; 0 kubernetes cores
 Key Vault	\$0.02/10k transactions  New plan available	9 key vaults
 Resource Manager	\$4/1M API calls  New plan available ⓘ	
 APIs	Plan 1 (\$200/1M API calls/Month) ⓘ Change plan >	0 Azure API Management services

Defenderplans

Microsoft Defender for Cloud | Recommendations

Showing 99 subscriptions

Search

Refresh Download CSV report Open query Governance report Guides & Feedback

- General
 - Overview
 - Getting started
 - Recommendations
 - Security alerts
 - Inventory
 - Cloud Security Explorer
 - Workbooks
 - Community
 - Diagnose and solve problems
- Cloud Security
 - Security posture
 - Regulatory compliance
 - Workload protections
 - Firewall Manager
 - DevOps Security (Preview)
- Management
 - Environment settings
 - Security solutions
 - Workflow automation

Secure score recommendations All recommendations

Secure score 43%

Active recommendations 237/299



12 Attack path
With the riskiest recommendations. Open >

Azure AWS GCP

Search recommendations

Recommendation status == None X
 Severity == None X
 Resource type == None X
 Recommendation maturity == None X
 Owner == None X
 Environment == AWS, Azure, GCP X
 Add filter

Show my items only: Off

Name	Max score	Current score	Potential score increase	Status	Unhealthy resources	Insights
Enable MFA	10	7.05	+ 4%	Unassigned	3 of 18 resources	
Secure management ports	8	4.45	+ 3%	Overdue	73 of 172 resources	
Remediate vulnerabilities	6	1.73	+ 4%	Overdue	265 of 705 resources	
Apply system updates	6	2.79	+ 3%	Overdue	81 of 361 resources	
Encrypt data in transit	4	1.91	+ 6%	Overdue	133 of 582 resources	
Manage access and permissions	4	2.76	+ 4%	Overdue	181 of 1575 resources	
Enable encryption at rest	4	0.66	+ 10%	Overdue	518 of 630 resources	
Remediate security configurations	4	1.30	+ 8%	Overdue	775 of 1257 resources	
Restrict unauthorized network access	4	0.91	+ 9%	Overdue	618 of 1550 resources	
Apply adaptive application control	3	2.08	+ 1%	Overdue	37 of 237 resources	
Enable endpoint protection	2	0.38	+ 1%	Overdue	122 of 760 resources	
Protect applications against DDoS attacks	2	0.90	+ 1%	Overdue	51 of 358 resources	
Enable auditing and logging	1	0.09	+ 3%	Overdue	587 of 727 resources	
Enable enhanced security features	Not scored	Not scored		Overdue	130 of 1113 resources	
Implement security best practices	Not scored	Not scored		Overdue	555 of 2777 resources	

Security recommendations

Storage account public access should be disallowed

Open query View policy definition View recommendation for all resources

Medium Risk level  stbctdbbackupe... Resource Unassigned Status

Description

Anonymous public read access to containers and blobs in Azure Storage is a convenient way to share data, but might present security risks. To prevent data breaches caused by undesired anonymous access, Microsoft recommends preventing public access to a storage account unless your scenario requires it.

Attack Paths

 0

Scope

 fb-bct-dev

Freshness

 30 Min

Last change date

16/05/2023

Owner

 -

Due date

-

Ticket ID

-

Risk factors

-

Tactics & techniques



Initial Access [Read more](#)

Exploit Public-Facing Application (T1190)

Take action Graph

Take one of the the following actions in order to mitigate the threat:

Remediate

Quick fix

Select the unhealthy resources and click "Fix" to launch "Quick fix" remediation. [Learn more >](#)

Note: After the process completes, it may take up to 30 min until your resources move to the 'healthy resources' tab.

Fix

To prevent public access to containers and blobs in your storage account:

1. In the Azure portal, navigate to your storage account.
2. From the settings menu, select "Configuration".
3. Set "Allow Blob anonymous access" to "Disabled".

[Learn more about public access](#)

Note: It might take several minutes after remediation completes until the resource appears in the 'healthy resources' tab.

Delegate

Use Defender for Cloud built-in governance mechanism or ServiceNow ITSM to assign the recommendation to the right owner.

Assign owner & set due date

Exempt

Exempt the entire recommendation, or disable specific findings using disable rules.

Exempted resources appear as not applicable and do not affect secure score.

Exempt

Workflow automation

Set a logic app which you would like to trigger with this security recommendation.

Trigger logic app

Prevention

Enforce remediation for future resources or Deny creation of misconfigured resources

Deny

- Security recommendations

Key vaults should have purge protection enabled

Open query View policy definition View recommendation for all resources

Low Risk level dtlconnectivity... Resource Unassigned Status

Description

Enabling purge protection on key vaults is a critical security measure to prevent permanent data loss. This feature enforces a mandatory retention period for soft-deleted key vaults, making them immune to purging during this period. Without this protection, a malicious insider could potentially delete and purge key vaults, leading to irreversible data loss. Therefore, it's important to activate purge protection to safeguard against such insider threats.

Attack Paths

0

Scope

fb-connectivity...

Freshness

30 Min

Last change date

10/02/2024

Owner

-

Due date

-

Ticket ID

-

Risk factors

-

Tactics & techniques



Impact

Data Destruction (T1485)

Take action

Take one of the the following actions in order to mitigate the threat:

Remediate

To enable purge protection for your key vault: 1. Log in to the Azure portal and select your key vault. 2. Click on the 'Properties' tab. 3. Select the radio button corresponding to "Enable purge the radio button corresponding to "Enable soft delete" first. Please visit <https://aka.ms/keyvaultsoftdelete> for detailed configuration steps.

Delegate

Use Defender for Cloud built-in governance mechanism or ServiceNow ITSM to assign the recommendation to the right owner.

Assign owner & set due date

Exempt

Exempt the entire recommendation, or disable specific findings using disable rules. Exempted resources appear as not applicable and do not affect secure score.

Exempt

Workflow automation

Set a logic app which you would like to trigger with this security recommendation.

Trigger logic app

Prevention

Enforce remediation for future resources or Deny creation of misconfigured resources

Deny









- Security recommendations

Container vulnerabilities

CVE Severity	ID	Fix status	Status	Package type	Vendor	Installed version	Package name	Fixed version
High	CVE-2024-0056	Fix available	Unhealthy	Language	microsoft.data.sqlclient	3.0.0.0	microsoft.data.sqlc	3.1.5
High	CVE-2023-36414	Fix available	Unhealthy	Language	azure.identity	1.7.0.0	azure.identity	1.10.2
High	CVE-2021-24112	Fix available	Unhealthy	Language	system.drawing.common	5.0.0.0	system.drawing.cor	5.0.3
High	CVE-2023-36414	Fix available	Unhealthy	Language	azure.identity	1.5.0.0	azure.identity	1.10.2
Medium	CVE-2022-30187	Fix available	Unhealthy	Language	azure.storage.blobs	12.12.0.0	azure.storage.blob:	12.13.0
Medium	CVE-2018-8292	Fix available	Unhealthy	Language	system.net.http	4.3.0.0	system.net.http	4.3.4
Medium	CVE-2019-0820	Fix available	Unhealthy	Language	system.text.regularexpressions	4.3.0.0	system.text.regular	4.3.1
Medium	CVE-2022-30187	Fix available	Unhealthy	Language	azure.storage.queues	12.10.0.0	azure.storage.queu	12.11.0
Medium	CVE-2022-34716	Fix available	Unhealthy	Language	system.security.cryptography.x	5.0.0.0	system.security.cryj	6.0.1
Medium	CVE-2024-21319	Fix available	Unhealthy	Language	microsoft.identitymodel.jsonw	6.8.0.0	microsoft.identityr	6.34.0
Medium	CVE-2024-21319	Fix available	Unhealthy	Language	system.identitymodel.tokens.jv	6.8.0.0	system.identitymoc	6.34.0
Medium	CVE-2024-29992	Fix available	Unhealthy	Language	azure.identity	1.10.2.0	azure.identity	1.11.0
Medium	CVE-2024-29992	Fix available	Unhealthy	Language	azure.identity	1.7.0.0	azure.identity	1.11.0
Medium	CVE-2024-29992	Fix available	Unhealthy	Language	azure.identity	1.5.0.0	azure.identity	1.11.0
Medium	CVE-2024-29992	Fix available	Unhealthy	Language	azure.identity	1.10.4.0	azure.identity	1.11.0
Medium	CVE-2022-26907	Fix available	Unhealthy	Language	microsoft.rest.clientruntime	2.3.20.0	microsoft.rest.clie	2.3.24
Low	CVE-2024-27086	Fix available	Unhealthy	Language	microsoft.identity.client	4.56.0.0	microsoft.identity.c	4.59.1
Low	CVE-2024-27086	Fix available	Unhealthy	Language	microsoft.identity.client	4.54.1.0	microsoft.identity.c	4.59.1

- Security recommendations

Container vulnerabilities

 Services should listen on allowed ports only	 aks-sharedservices-test-02
 Running containers as root user should be avoided	 aks-sharedservices-test-02
 Container images should be deployed from trusted registries only	 aks-sharedservices-test-02
 Container CPU and memory limits should be enforced	 aks-sharedservices-test-02

- Security recommendations



Architecture



Governance



Security



Cost



Velocity



Optimization

FinOps – Cost Optimization – Budget Control – Projections – Alerts

Challenges

Your cloud journey from planning to reality



Kapelli - Hub Spoke

▼ Azure Firewall: fw-hub-01	ⓘ	Standard tier, 1 Logical firewall units x 1 Month, 500...	ⓘ	Upfront: €0.00	Monthly: €850.07
▼ Application Gateway: agw-hub-dev-01	ⓘ	Web Application Firewall V2 tier, 1 Fixed gateway M...	ⓘ	Upfront: €0.00	Monthly: €414.06
▼ Azure Monitor: log-hub-01	ⓘ	Log analytics: Log Data Ingestion: 2 GB Daily Analyti...	ⓘ	Upfront: €0.00	Monthly: €220.90
▼ Azure DevOps	ⓘ	10 Basic Plan license users, 0 Basic + Test Plans licen...	ⓘ	Upfront: €0.00	Monthly: €70.19
▼ VPN Gateway: vpn-hub-01	ⓘ	VPN Gateways, VpnGw1 tier, 730 gateway hour(s), 0...	ⓘ	Upfront: €0.00	Monthly: €128.09
▼ Key Vault: kv-hub-01	ⓘ	Vault: 100,000 operations, 100,000 advanced operat...	ⓘ	Upfront: €0.00	Monthly: €1.66
▼ Microsoft Entra ID (formerly Azure AD): P...	ⓘ	Premium P1 - 0 users, Premium P2 - 1 users, Stand...	ⓘ	Upfront: €0.00	Monthly: €8.31
▼ Virtual Machines: vm-hub-devops-01 (D...	ⓘ	1 D2ads v5 (2 vCPUs, 8 GB RAM) x 730 Hours (Pay a...	ⓘ	Upfront: €0.00	Monthly: €93.13
▼ API Management: apim-sharedservices-...	ⓘ	Premium tier, 1 base unit x 1 Month, 0 additional u...	ⓘ	Upfront: €0.00	Monthly: €2,581.31
▼ Microsoft Defender for Cloud	ⓘ	Microsoft Defender for Cloud Security Posture Man...	ⓘ	Upfront: €0.00	Monthly: €0.00
▼ Azure DNS	ⓘ	Zone 1, DNS, Private; 5 hosted DNS zones, 1 DNS q...	ⓘ	Upfront: €0.00	Monthly: €2.68
▼ Virtual Network: Vnet Peering Shared-Sp...	ⓘ	West Europe (Virtual Network 1): 1000 GB Outboun...	ⓘ	Upfront: €0.00	Monthly: €18.47
▼ Virtual Network: Vnet Peering Hub-Shared	ⓘ	West Europe (Virtual Network 1): 1000 GB Outboun...	ⓘ	Upfront: €0.00	Monthly: €18.47
▼ Storage Accounts: kapelli	ⓘ	Block Blob Storage, General Purpose V2, Flat Name...	ⓘ	Upfront: €0.00	Monthly: €23.45
▼ Azure Private Link: Private Endpoints	ⓘ	30 Endpoints X 730 Hours, 100 GB Outbound data ...	ⓘ	Upfront: €0.00	Monthly: €204.09
▼ Azure Container Apps: all	ⓘ	Dedicated Plan Type, Pay as you go, 1 X E4, 4 vCPU,...	ⓘ	Upfront: €0.00	Monthly: €361.24
▼ Service Bus: sb-kapelli-prd	ⓘ	Standard tier: Messaging Operations: 730 Hours of ...	ⓘ	Upfront: €0.00	Monthly: €9.06
▼ Azure Cosmos DB: prd env	ⓘ	Azure Cosmos DB for NoSQL (formerly Core), Stand...	ⓘ	Upfront: €0.00	Monthly: €203.35
▼ Azure Container Registry	ⓘ	Premium Tier, 1 registry x 30 days, Geo Replication ...	ⓘ	Upfront: €0.00	Monthly: €46.17
▼ Microsoft Entra ID (formerly Azure AD)	ⓘ	Premium P1 - 0 users, Premium P2 - 10 users, Stand...	ⓘ	Upfront: €0.00	Monthly: €83.11
▼ Azure Functions	ⓘ	Premium tier, Pay as you go, EP1: 1 Cores(s), 3.5 GB ...	ⓘ	Upfront: €0.00	Monthly: €142.48

Support

SUPPORT:

Standard ⓘ

€92.35

Select your program/offer

LICENSING PROGRAM:

Microsoft Customer Agreement (MCA) ⓘ

Selected billing profile:

- Cost prediction
- Hidden costs
 - Traffic
 - Logging cost
 - DfC
 - Private endpoints

Create budget

Budget

- ✓ Create a budget
- 2 Set alerts**

Configure alert conditions and send email notifications based on your spend.

Alert conditions

Type	% of budget	Amount	Action group
Actual	100	500	Cost managers
Forecasted	150	750	Cost managers
Select type	Enter %	-	None

Manage action group

Alert recipients (email)

Alert recipients (email)

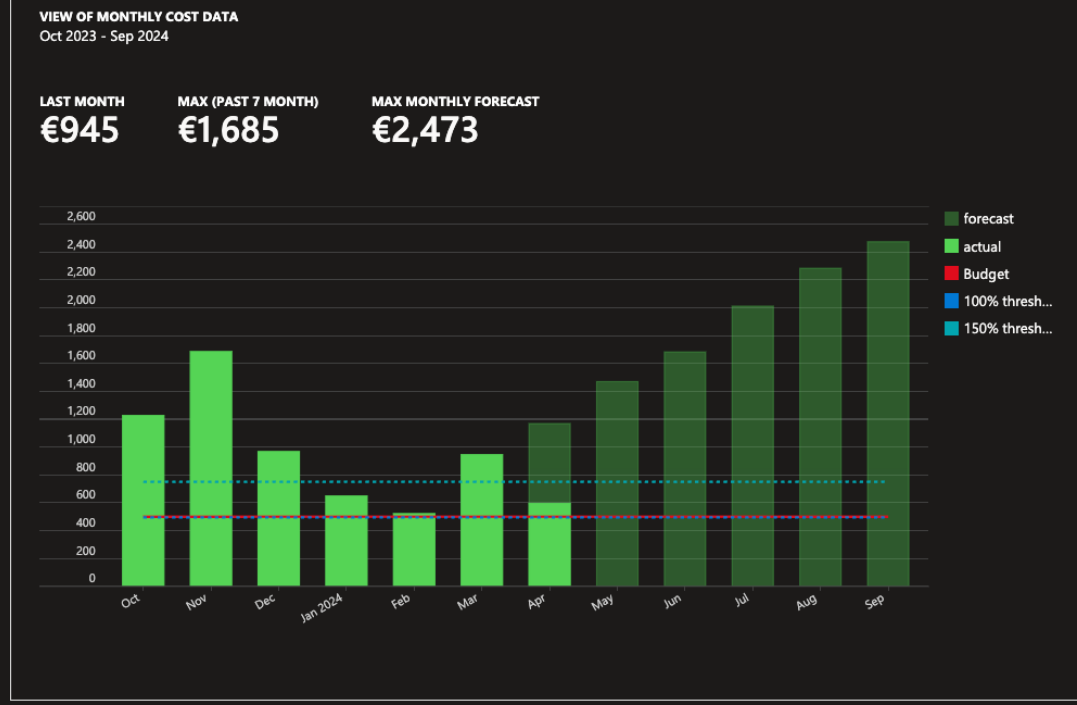
It is recommended to add `azure-noreply@microsoft.com` to your email allow list to ensure alert mails do not go to your spam folder.

Language preference

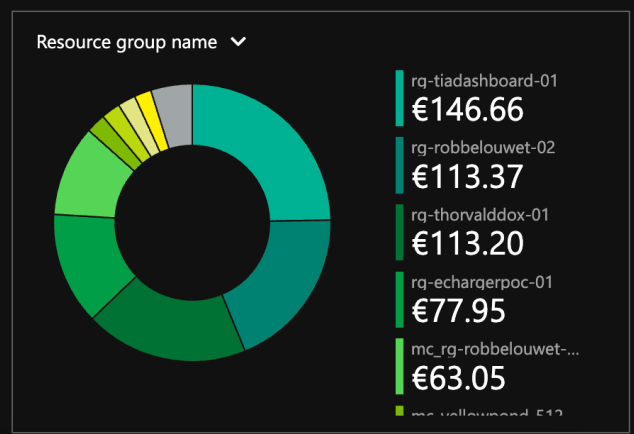
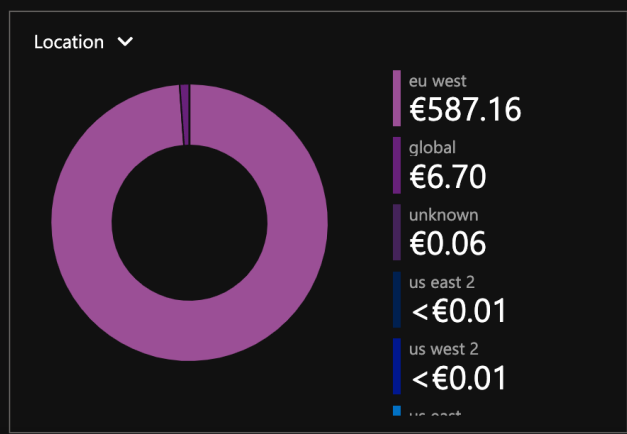
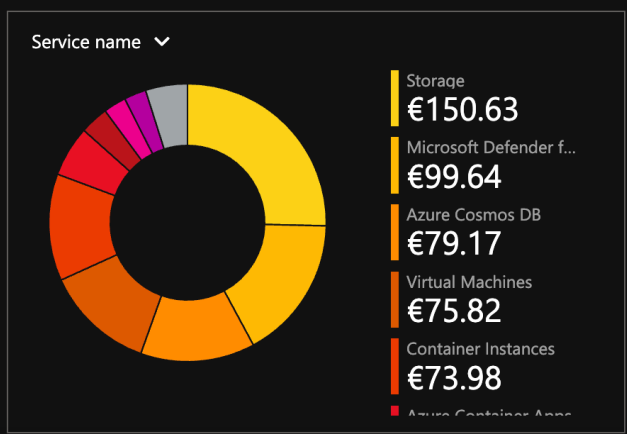
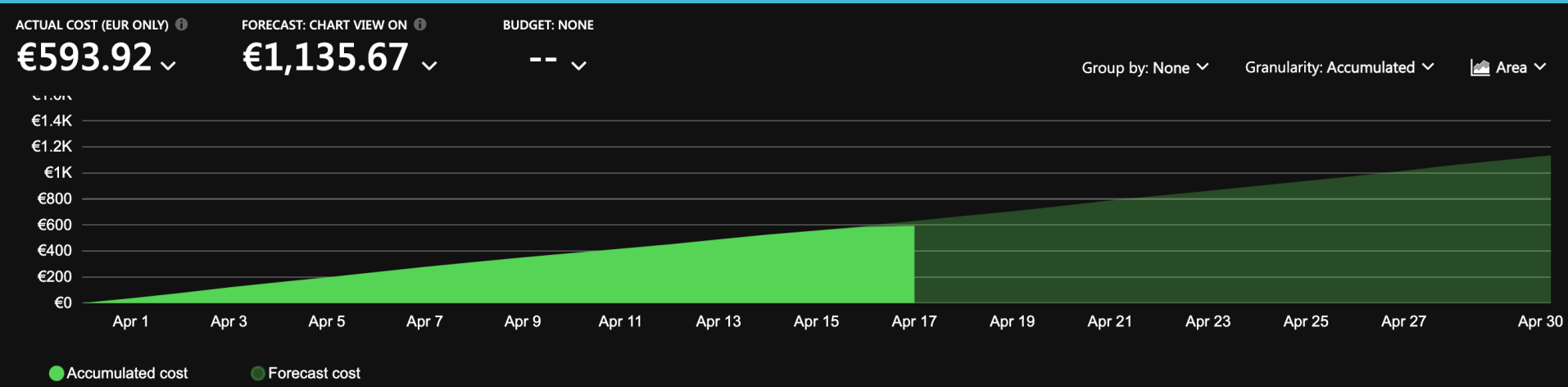
Select your preferred language for receiving the alert email for all recipients provided above. Default is the language associated to your enrollment.

Languages

Your budget evaluation will begin in a few hours. [Learn more](#)



- Cost Budgets
- Action groups



- Cost Analysis



Architecture



Governance



Security



Cost



Velocity



Optimization

Deployment Automation (CI/CD) – Consistency – Versioning – Branching – Toolbox

Challenges

Your cloud journey from planning to reality



✓ #20231128.1 • Merged PR 1773: Upgrade .NET 8

bct-module-krab-infra-develop

Run new

This run is being retained as one of 3 recent runs by develop (Branch).

View retention leases

Summary [Environments](#) [Code Coverage](#)

Rolling build triggered

View change

Repository and version
bct-module-krab-infra
develop c8ac346d

Time started and elapsed
Today at 08:45
15m 32s

Related
1 work items
0 artifacts

Tests and coverage
[Get started](#)

Stages [Jobs](#)

✓ main - dev

4 jobs completed 4m 35s

- ✓ Build bicep 15s
- ✓ Validate Bicep code 23s
- ✓ Preview Azure Changes 38s
- ✓ main - Deploy infrastr... 2m ...

Rerun stage

✓ apim - dev

4 jobs completed 3m 5s

✓ main - tst

4 jobs completed 4m 9s

✓ apim - tst

4 jobs completed 3m 0s

- Pipelines
 - Code
 - Infra
 - Bicep
 - Terraform

✓ #20231128.1 • Merged PR 1773: Upgrade .NET 8

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[Get started](#)

Stages [Jobs](#)

✓ main - dev

4 jobs completed 4m 35s

- ✓ Build bicep 15s
- ✓ Validate Bicep code 23s
- ✓ Preview Azure Changes 38s
- ✓ main - Deploy infrastr... 2m ...

Rerun stage

✓ apim - dev

4 jobs completed 3m 5s

✓ main - tst

4 jobs completed 4m 9s

✓ apim - tst

4 jobs completed 3m 0s

- Pipelines - Bicep
 - Build bicep
 - Validate bicep
 - What-if


✓ #20231128.3 • basisallocatie voorstel consumer BoBa - PR Run new

ⓘ This run is being retained as one of 3 recent runs by pipeline. View retention leases

Summary **Tests** Code Coverage


Summary

3 Run(s) Completed (3 Passed, 0 Failed) [160 unique failing tests in the last 14 days](#)

<p>228</p> <p>Total tests</p> <p>+228</p>	 <p>226 ● Passed 0 ● Failed 2 ● Others</p>	<p>99.12%</p> <p>Pass percentage</p> <p>↑ 99.1%</p>	<p>11m 18s</p> <p>Run duration ⓘ</p> <p>↑ +11m 18s</p>	<p>0</p> <p>Tests not reported</p>
--	--	--	---	---


🐛 Bug 🔗 Link ☰ Test run 🔗 Column Options

☰ Filter by test or run name Tags Test file Owner Aborted (+1)



- Pipelines - .net
 - Restore
 - Build
 - Unit tests
 - Integration tests (e.g. DB)
 - Scanning tools for vulnerabilities

Fix typo casesensitive sql migration path

Completed 12929  Jan Vanuytrecht proposes to merge [feature/17505-pipeline-gpp](#) into [develop](#)

[Overview](#) [Files](#) [Updates](#) [Commits](#)


 Jan Vanuytrecht completed this pull request 29 Mar

[Cherry-pick](#) [Revert](#)

Merged PR 2929: Fix typo casesensitive sql migration path

965bb7e7  Jan Vanuytrecht 29 Mar at 17:58

[Show details](#)

 All required checks succeeded

[View 3 checks](#) ⓘ

 1 reviewer approved

 No merge conflicts
Last checked 29 Mar

Description

Fix typo casesensitive sql migration path

Reviewers

[Add](#) ▾

Required

No required reviewers

Optional

  Jan Vanuytrecht
Approved




Tags

[+](#)

No tags

Work items

[+](#)

 [Product Backlog Item 17505: Nieuw](#) 
Updated 19m ago,  Done

- Pipelines
 - PR (branch policies)

- Required**
Block pull requests from being completed unless they have at least one linked work item.
- Optional**
Warn if there are no linked work items, but allow pull requests to be completed.

On **Check for comment resolution**
Check to see that all comments have been resolved on pull requests.

- Required**
Block pull requests from being completed while any comments are active.
- Optional**
Warn if any comments are active, but allow pull requests to be completed.

On **Limit merge types**
Control branch history by limiting the available types of merge when pull requests are completed.

Allowed merge types:

- Basic merge (no fast-forward)**
Preserves history exactly as it happened during development
- Squash merge**
Creates a linear history by condensing the source branch commits into a single new commit on the target branch
- Rebase and fast-forward**
Creates a linear history by replaying the source branch commits onto the target without a merge commit
- Rebase with merge commit**
Creates a semi-linear history by replaying the source branch commits onto the target and then creating a merge commit

Build Validation 8

Validate code by pre-merging and building pull request changes.

Filter +

Enabled	Name ↑	Path filter	Trigger	Inheritance
<input checked="" type="checkbox"/> On	Auth - PR Required	/backend/auth/*	Automatic Expires after 12 hours	

- Pipelines
 - PR (branch policies)



Architecture



Governance



Security



Cost



Velocity



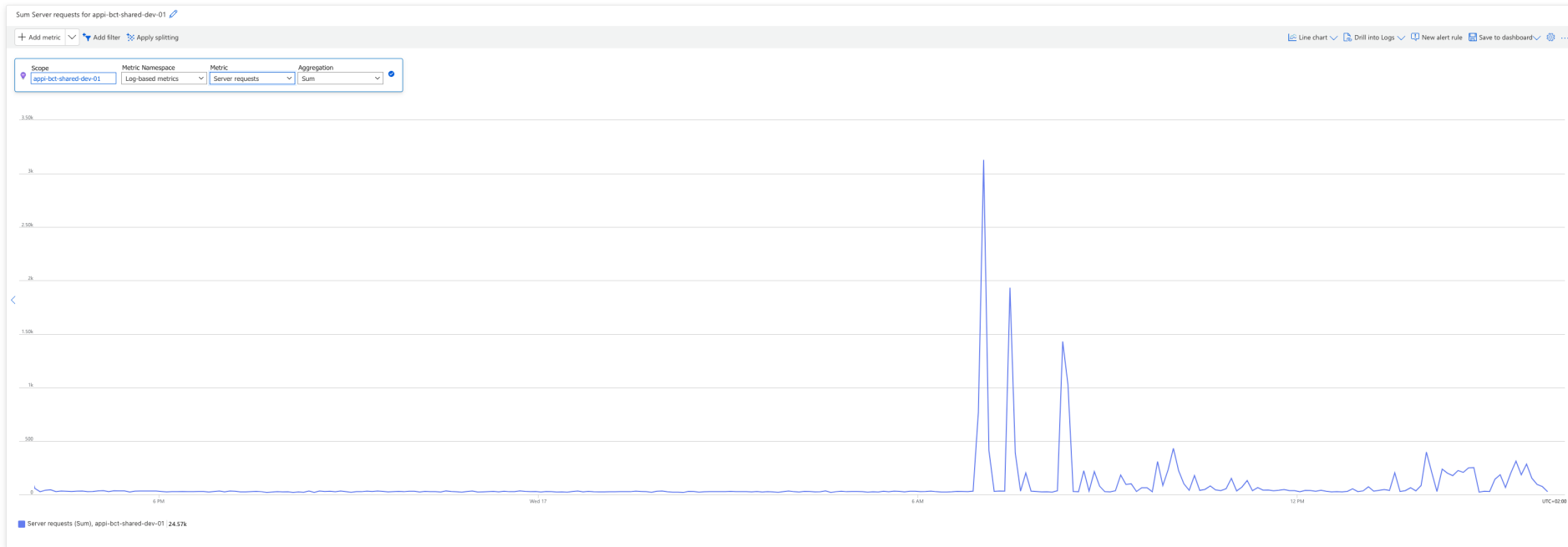
Optimization

Metrics – Alerts – Recommendations – Scalability – Reliability

Challenges

Your cloud journey from planning to reality

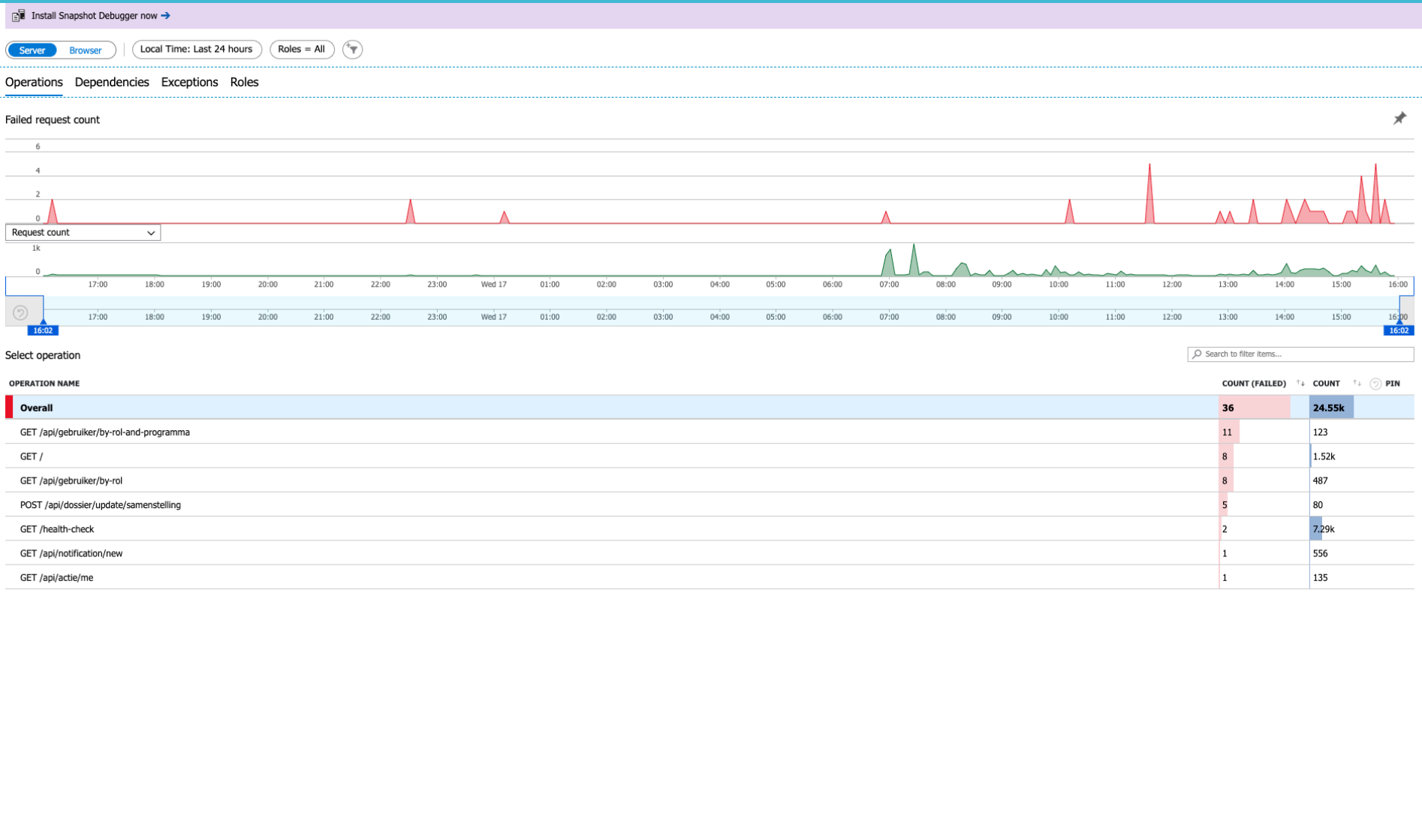




- Metrics
 - VMs
 - CPU, Disk usage
 - App services
 - Req/ sec
 - Http codes



- Metrics



- App insights
 - App setting key

Overall

Top 3 response codes

		COUNT	FILTER...
499		31	
400		6	
503		2	

Top 3 exception types

		COUNT	FILTER...
InvalidOperationException...		5	

Top 3 failed dependencies

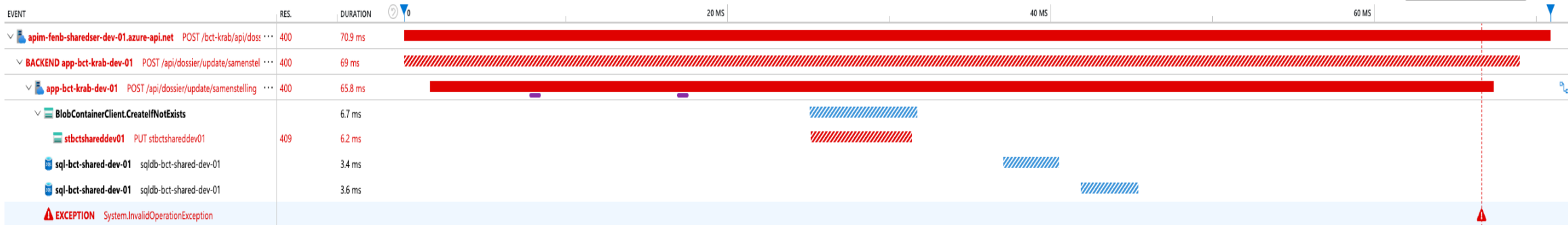
		COUNT	FILTER...
Azure blob		85	

End-to-end transaction

Operation ID: a042f64a6cf98e066c632584c89d4593, 4edea74c-413d2e281c310888

▲ = Exception ■ = Request (incoming) ▨ = Dependency (outgoing) ● = Traces & events occurrences 🔍 = Traces available

Search ↑ ↓ ✕





EXCEPTION

System.InvalidOperationException

Exception Properties

[Show all](#)

Event time	17/04/2024, 15:40:39.5821627 (Local time)	...
Message	Een of meerdere bestanden zijn dubbel toegevoegd: test.docx. Gelieve de bestandsnamen binnen het dossier uniek te maken.	...
Exception type	System.InvalidOperationException	...

Custom Properties

ParentId	0000000000000000	...
RequestId	40005339-0000-e400-b63f-84710c7967bb	...
AspNetCoreEnvironment	Development	...
SpanId	aaf83fc02253c9bc	...
CategoryName	Microsoft.AspNetCore.Diagnostics.ExceptionHandlerMiddleware	...
RequestPath	/api/dossier/update/samenstelling	...
OriginalFormat	An unhandled exception has occurred while executing the request.	...
FormattedMessage	An unhandled exception has occurred while executing the request.	...
TraceId	a042f64a6cf98e066c632584c89d4593	...
EventName	UnhandledException	...
EventId	1	...

Call Stack

Just my code Copy Expand

```
System.InvalidOperationException:
```



appi-bct-shared-d... Select scope

Run Time range: Last 12 hours Save Share + New alert rule Export Pin to Format query

1 traces

Search Filter Group by: Solution Collapse all Favorites You can add favorites by clicking on the star icon

Application Insights

- availabilityResults
- browserTimings
- customEvents
- customMetrics
- dependencies
- exceptions
- pageViews
- performanceCounters
- requests
- traces

timestamp [UTC]	message	severityLevel	itemType	customDimensions	operation_Name	operation_id	operation_ParentId	application_Version	client_Type	client_IP	client_City	client_StateOrProvince	client_CountryOrRegion	cloud_RoleName
> 17/04/2024, 13:41:06.042	End processing HTTP request after 719.8842ms - 200	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:06.042	Received HTTP response headers after 719.3602ms - 2...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:05.323	Sending HTTP request POST https://apim-fenb-sharedse...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:05.323	Start processing HTTP request POST https://apim-fenb...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:05.284	End processing HTTP request after 181.7959ms - 200	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:05.284	Received HTTP response headers after 181.0844ms - 2...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:05.103	Sending HTTP request POST https://apim-fenb-sharedse...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:05.103	Start processing HTTP request POST https://apim-fenb...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:05.092	End processing HTTP request after 97.3673ms - 200	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:05.092	Received HTTP response headers after 96.8291ms - 200	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.995	Sending HTTP request POST https://apim-fenb-sharedse...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.995	Start processing HTTP request POST https://apim-fenb...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	GET /api/dossier/opensdossiers	db9e9ec415c4ae52737c651bf5081b02	66b642ef08f78d2d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.635	End processing HTTP request after 60.601ms - 200	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/351462d0-767c-48b5-bf16-448da90...	bc1cea33d7bd283cb2c562d8f52f3dd	9a45f7bed6a7098d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.635	Received HTTP response headers after 60.0406ms - 200	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/351462d0-767c-48b5-bf16-448da90...	bc1cea33d7bd283cb2c562d8f52f3dd	9a45f7bed6a7098d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.575	Sending HTTP request GET https://apim-fenb-sharedse...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/351462d0-767c-48b5-bf16-448da90...	bc1cea33d7bd283cb2c562d8f52f3dd	9a45f7bed6a7098d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.575	Start processing HTTP request GET https://apim-fenb-...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/351462d0-767c-48b5-bf16-448da90...	bc1cea33d7bd283cb2c562d8f52f3dd	9a45f7bed6a7098d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.574	End processing HTTP request after 49.8317ms - 200	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/351462d0-767c-48b5-bf16-448da90...	bc1cea33d7bd283cb2c562d8f52f3dd	9a45f7bed6a7098d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.574	Received HTTP response headers after 48.7663ms - 200	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/351462d0-767c-48b5-bf16-448da90...	bc1cea33d7bd283cb2c562d8f52f3dd	9a45f7bed6a7098d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.525	Sending HTTP request GET https://apim-fenb-sharedse...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/351462d0-767c-48b5-bf16-448da90...	bc1cea33d7bd283cb2c562d8f52f3dd	9a45f7bed6a7098d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:41:04.524	Start processing HTTP request GET https://apim-fenb-...	1	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/351462d0-767c-48b5-bf16-448da90...	bc1cea33d7bd283cb2c562d8f52f3dd	9a45f7bed6a7098d	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:40:39.532	Increasing the MaxRequestBodySize conflicts with the ...	2	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/update/samenstelling	a042f64a6cf98e066c832584c89d4593	aa183fc02253c9bc	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:40:39.523	Increasing the MaxRequestBodySize conflicts with the ...	2	trace	{\"AspNetCoreEnvironment\":\"Development\",\"RequestId\":\"...\"}	POST /api/dossier/update/samenstelling	a042f64a6cf98e066c832584c89d4593	aa183fc02253c9bc	1.0.0.0	PC	0.0.0.0				app-bct-krab
> 17/04/2024, 13:40:23.862	Savepoints are disabled because Multiple Active Result ...	2	trace	{\"AspNetCoreEnvironment\":\"Development\",\"ActionId\":\"...\"}	POST /api/dossier/update/samenstelling	273256a50b1759484142d9d2ca22657b	7f5cc66ef349264d	1.0.0.0	PC	0.0.0.0				app-bct-krab

Custom logs

Edit alert rule

Scope **Condition** Actions Details Tags Review + save

Configure when the alert rule should trigger by selecting a signal and defining its logic.

Signal name * ⓘ

Custom log search

[See all signals](#)

Define the logic for triggering an alert. Use the chart to view trends in the data. [Learn more](#)

The query to run on this resource's logs. The results returned by this query are used to populate the alert definition below.

Search query * ✔

```
requests
| where success == "False"
| join kind= inner (exceptions
  | where type != "System.OperationCanceledException"
  | where type != "System.Threading.Tasks.TaskCanceledException")
on operation_Id
| project
  timestamp,
  resultCode,
```

[View result and edit query in Logs](#)

Measurement

Select how to summarize the results. We try to detect summarized data from the query results automatically.

Measure ⓘ

Table rows

Aggregation type ⓘ

Count

Aggregation granularity ⓘ

15 minutes

Split by dimensions

Use dimensions to monitor specific time series and provide context to the fired alert. Dimensions can be either number or string columns. If you select more than one dimension value, each time series that results from the combination will trigger its own alert and will be charged separately. ⓘ

Dimension name	Operator	Dimension values	Include all future values
Select dimension	=	0 selected	<input type="checkbox"/>

[Add custom value](#)

Alert logic

Operator * ⓘ

Greater than

Threshold value * ⓘ

0

Frequency of evaluation * ⓘ

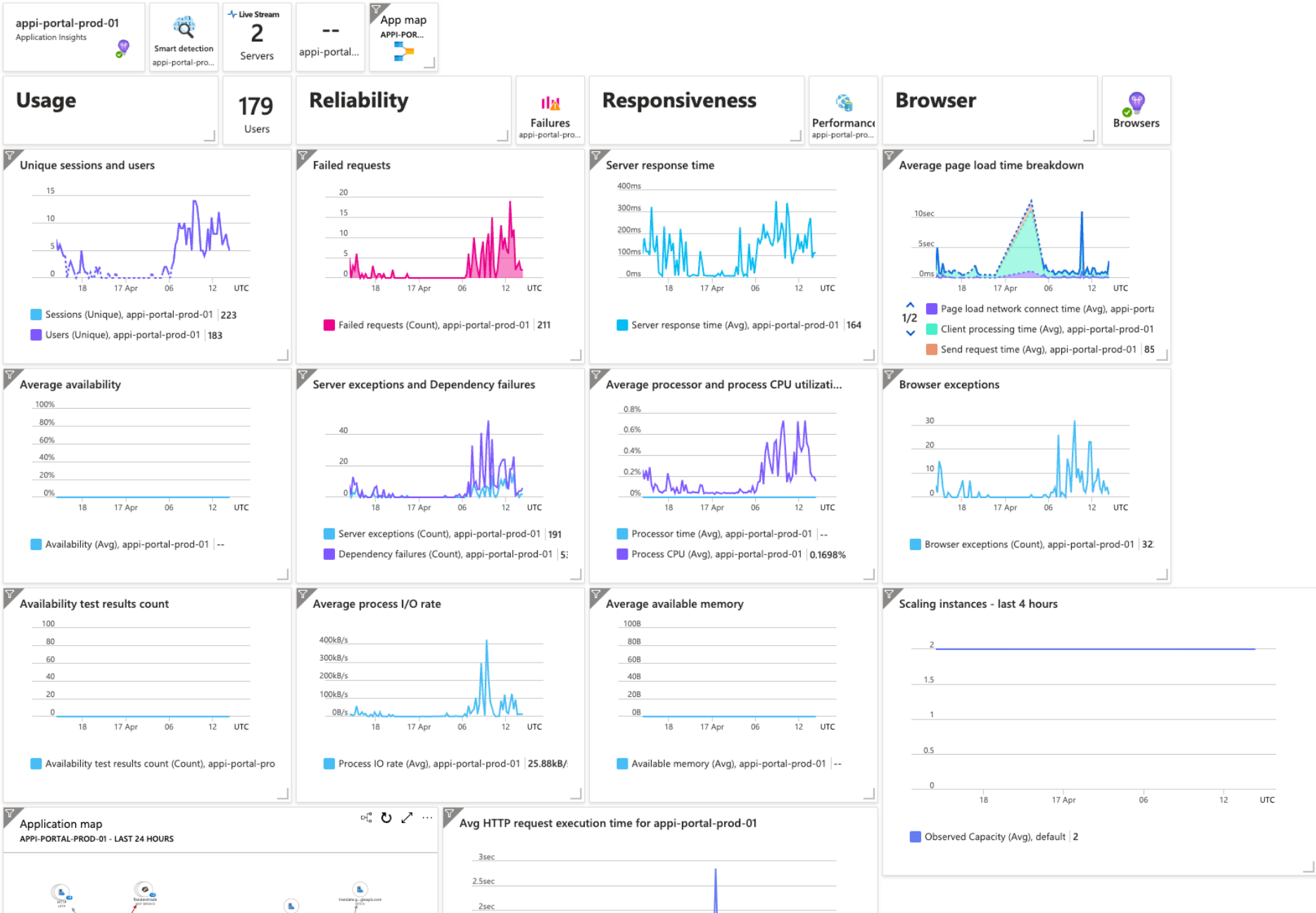
15 minutes

Alert rules



Fired time	Alert condition	Affected resource	User response	Value (when alert fired)	Dimensions
17/04/2024, 16:00	Fired	appi-bct-shared-prd-01	New	1	None
17/04/2024, 15:45	Fired	appi-bct-shared-prd-01	New	1	None
17/04/2024, 15:30	Fired	appi-bct-shared-prd-01	New	5	None
17/04/2024, 15:15	Fired	appi-bct-shared-prd-01	New	2	None
17/04/2024, 15:00	Fired	appi-bct-shared-prd-01	New	1	None
17/04/2024, 14:45	Fired	appi-bct-shared-prd-01	New	2	None
17/04/2024, 14:30	Fired	appi-bct-shared-prd-01	New	1	None
17/04/2024, 13:45	Fired	appi-bct-shared-prd-01	New	3	None
17/04/2024, 13:30	Fired	appi-bct-shared-prd-01	New	2	None
17/04/2024, 13:00	Fired	appi-bct-shared-prd-01	New	1	None
17/04/2024, 12:45	Fired	appi-bct-shared-prd-01	New	1	None
17/04/2024, 12:30	Fired	appi-bct-shared-prd-01	New	1	None
17/04/2024, 12:00	Fired	appi-bct-shared-prd-01	New	2	None
17/04/2024, 11:45	Fired	appi-bct-shared-prd-01	New	3	None
17/04/2024, 11:30	Fired	appi-bct-shared-prd-01	New	3	None
17/04/2024, 11:15	Fired	appi-bct-shared-prd-01	New	2	None
17/04/2024, 11:00	Fired	appi-bct-shared-prd-01	New	1	None
17/04/2024, 10:45	Fired	appi-bct-shared-prd-01	New	1	None
17/04/2024, 10:00	Fired	appi-bct-shared-prd-01	New	2	None
17/04/2024, 09:45	Fired	appi-bct-shared-prd-01	New	3	None
17/04/2024, 09:15	Fired	appi-bct-shared-prd-01	New	7	None
17/04/2024, 09:00	Fired	appi-bct-shared-prd-01	New	9	None
17/04/2024, 08:45	Fired	appi-bct-shared-prd-01	New	3	None
17/04/2024, 08:30	Fired	appi-bct-shared-prd-01	New	1	None

Alertrules



Dashboards



UNLIMITED POWER!!!

Feedback Download as CSV Download as PDF Workbooks

Overview

- Getting started
- Advisor score
- Workbooks
- Assessments (Preview)

Recommendations

- Cost
- Security
- Reliability
- Operational excellence
- Performance
- All recommendations

Monitoring

- Alerts (Preview)
- Recommendation digests

Settings

- Configuration

Support + troubleshooting

- Support + troubleshooting

Subscription equals all Recommendation Status equals Active Resource Group equals All Type equals All Add filter

<p>Cost Score 69%</p> <p>5 Recommendations</p> <p>3 High impact 2 Medium impact 0 Low impact</p> <p>9 Impacted resources</p>	<p>Security Score 73%</p> <p>30 Recommendations</p> <p>18 High impact 8 Medium impact 4 Low impact</p> <p>59 Impacted resources</p>	<p>Reliability Score 59%</p> <p>7 Recommendations</p> <p>3 High impact 4 Medium impact 0 Low impact</p> <p>40 Impacted resources</p>	<p>Operational excellence Score 84%</p> <p>5 Recommendations</p> <p>3 High impact 2 Medium impact 0 Low impact</p> <p>16 Impacted resources</p>
<p>Performance Score 100%</p> <p>1 Recommendation</p> <p>1 High impact 0 Medium impact 0 Low impact</p> <p>1 Impacted resource</p>	<p>Get started in Advisor</p> <p>Advisor provides Microsoft best practices to help you improve your workloads, identify cost saving opportunities or explore best practices.</p> <p>Get started</p>	<p>Tips & tricks</p> <ul style="list-style-type: none">You can customize Advisor to process recommendations for resources that matter to you the most.Explore workbooks in Advisor gallery to get additional optimization insights.You can optimize underutilized virtual machines to reduce your monthly Azure spend.	

Advisor



- SaaS: build-in
 - Containerization
 - AKS, AKA, App services
 - App services
- VM – availability set
- VM scale set


Autoscale setting ...
asp-bct-shared-prd-01 (App Service plan)

Save Discard Refresh Logs Feedback

Custom autoscale

Autoscale setting name	aspa-bct-shared-prd-01
Resource group	rg-bct-shared-prd-01
Instance count	2

Default* Auto created default scale condition  

Delete warning  The very last or default recurrence rule cannot be deleted. Instead, you can disable autoscale to turn off autoscale.

Scale mode Scale based on a metric Scale to a specific instance count

Rules

Scale out

When asp-bct-shared-prd-01 (Average) CpuPercentage > 70 Increase count by 1

Scale in

When asp-bct-shared-prd-01 (Average) CpuPercentage < 40 Decrease count by 1

[+ Add a rule](#)

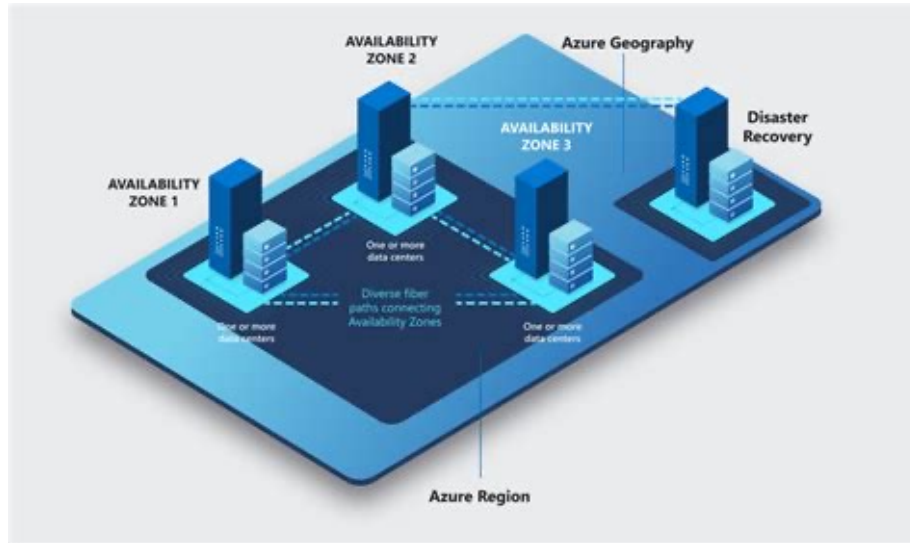
Instance limits

Minimum * ✓ Maximum * ✓ Default * ✓

Schedule **This scale condition is executed when none of the other scale condition(s) match**

Scaling

- Availability zones



99.9% = Single VM (monthly 43m 28s possible downtime)
99.99% = Availability Zones (monthly 4m 21s)

Reliability

- Cross region backups (storage account, SQL, ...)

Azure Storage redundancy copies your data so that it is protected from transient hardware failures, network or power outages, and natural disasters.

[Learn more about storage account failover](#)

Redundancy ⓘ	Geo-redundant storage (GRS) ▼
Last failover time	-
Storage endpoints	View all
Location	Data
West Europe	Prime

- Locally-redundant storage (LRS)
- Geo-redundant storage (GRS)
- Read-access geo-redundant storage (RA-GRS)
- Zone-redundant storage (ZRS)
- Geo-zone-redundant storage (GZRS) ⓘ
- Read-access geo-zone-redundant storage (RA-GZRS) ⓘ

Backup storage redundancy

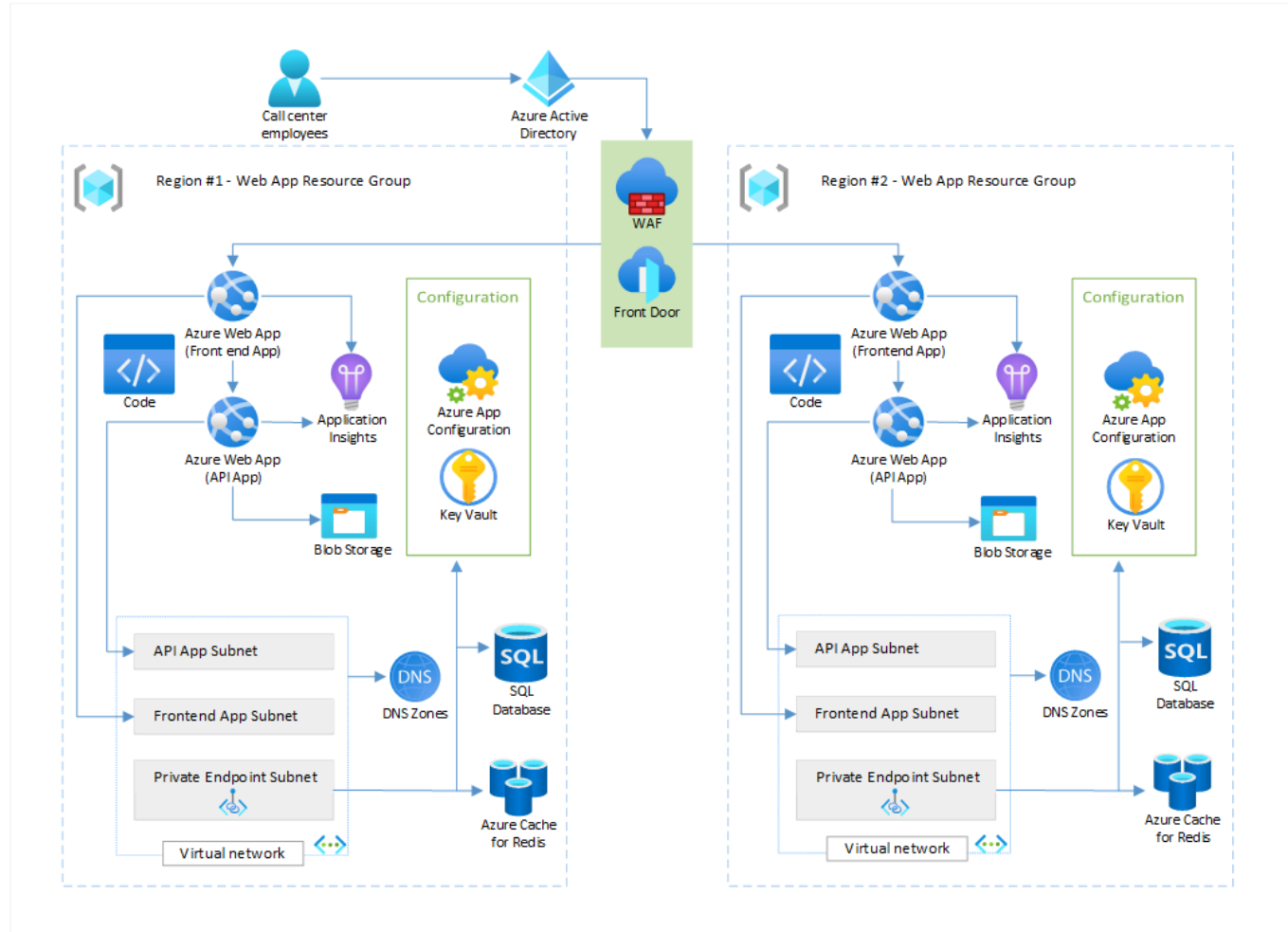
Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

The default backup storage redundancy setting is taken from the setting of the source.

- Backup storage redundancy ⓘ
- Locally-redundant backup storage
 - Zone-redundant backup storage
 - Geo-redundant backup storage

Reliability

- Multiple instances in multiple regions



Reliability

- RTO – recovery time objective
- RPO – recovery point objective
 - backup retentions (short & long term)

samplesqlserver | Backups

SQL server | Directory

Search

Refresh Feedback **Configure policies** Remove LTR settings

Locks

Data management

- Backups
- Deleted databases
- Failover groups
- Import/Export history

Security

- Networking
- Microsoft Defender for Cloud

Available backups Retention policies

Configure and manage your automated backup retention policies below. Point-in-time restore (PITR) allows short-term backup retention of 1-35 days. Long-term retention policies enable you to keep full backups for up to 10 years. [Learn more](#)

Search for a database

Database	PITR	Diff. backup freq...	Weekly LTR	Monthly LTR	Yearly LTR
<input checked="" type="checkbox"/> ads_1	7 Days	12 Hours	--	--	--
<input type="checkbox"/> new_db	7 Days	12 Hours	--	--	--

Backups

Configure policies

SQL server

Point-in-time-restore

Specify how long you want to keep your point-in-time backups. [Learn more](#)

How long would you like PITR backups to be kept? 7 Days

Long-term retention

Specify how long you want to keep your long-term retention backups. You may choose to keep yearly backups for up to 10 years. [Learn more](#)

Weekly LTR Backups

Keep weekly backups for: 4 Week(s)

Monthly LTR Backups

Keep the first backup of each month for: 0 Week(s)

Yearly LTR Backups

Keep an annual backup for: 0 Week(s)

Which weekly backup of the year would you like to keep? Week 1

Apply Cancel



Architecture



Governance



Security



Cost



Velocity

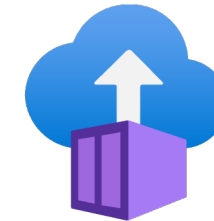
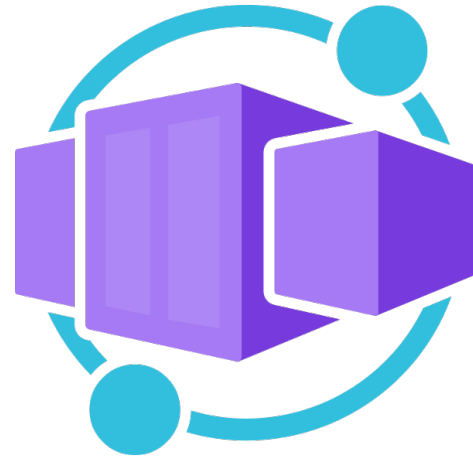
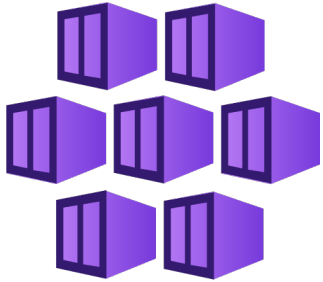


Optimization

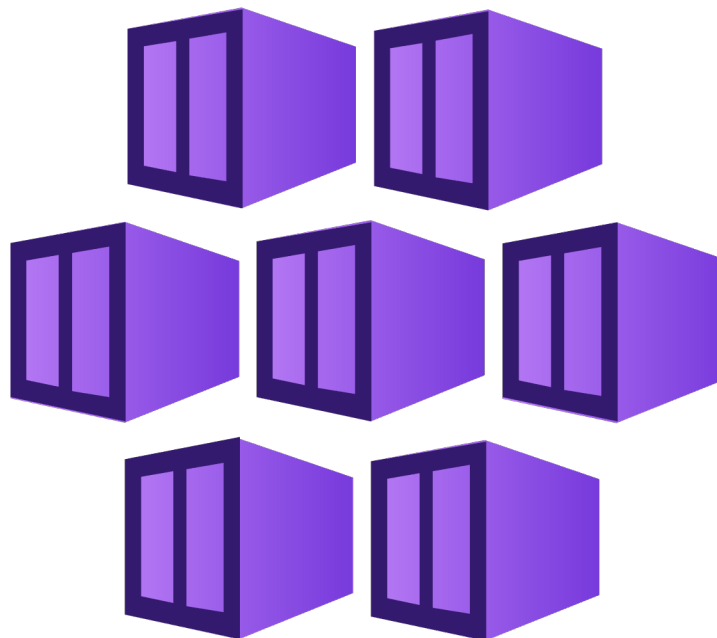
Challenges

Container hosting options



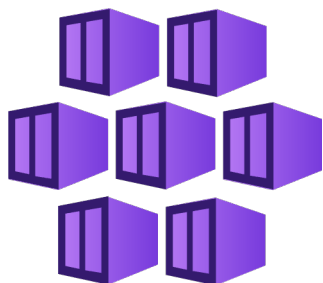


Container Hosting



Azure Kubernetes Service

Managed Kubernetes



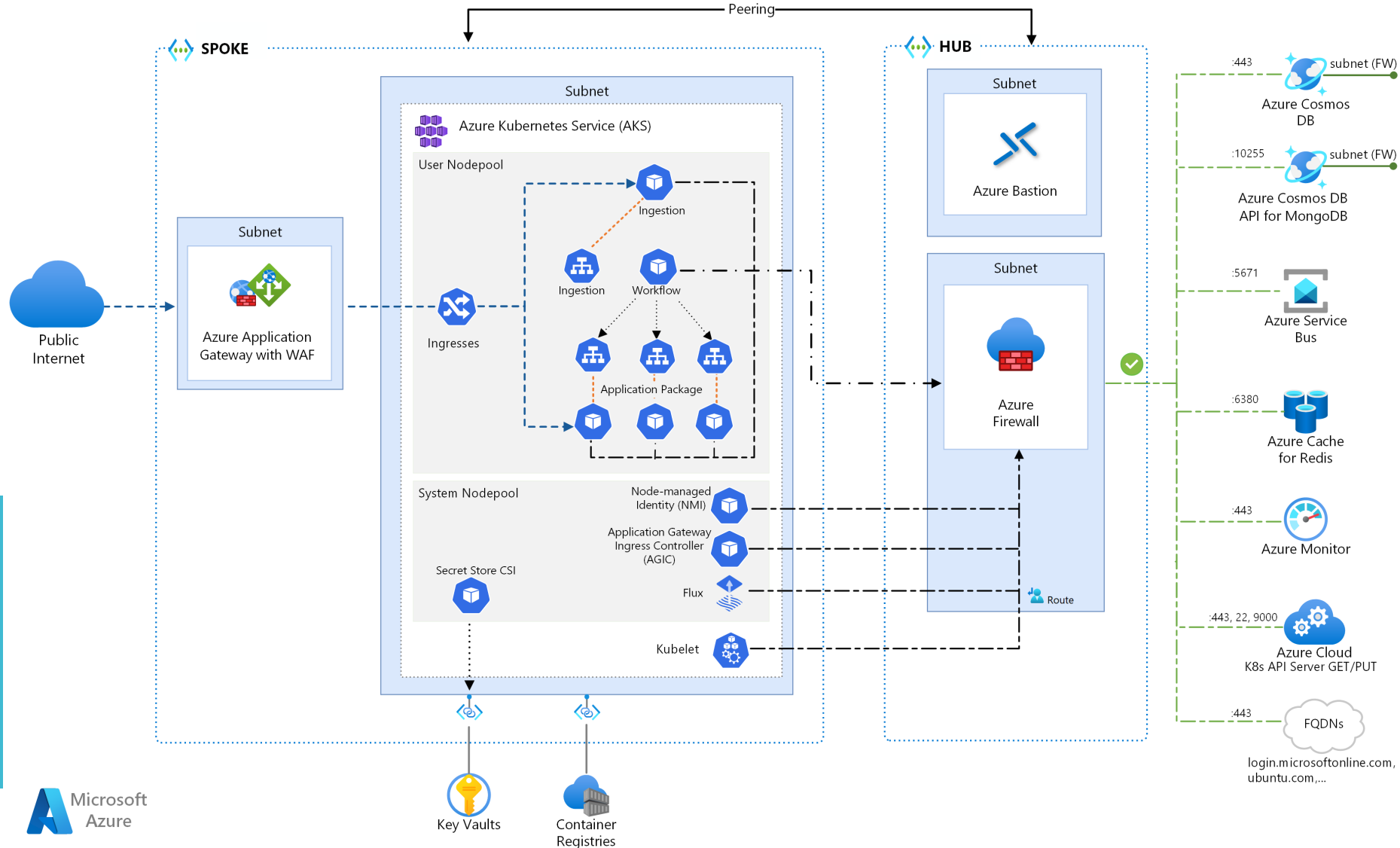
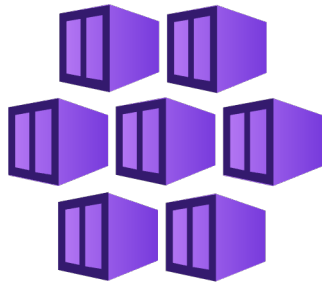
- Managed
- Full control
- Community

- Knowledge gap
- Hidden costs

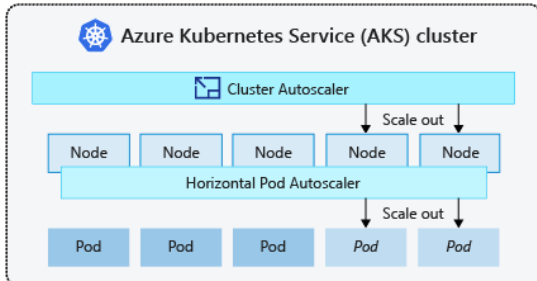
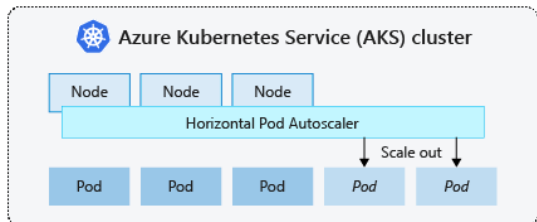
```
1.  apiVersion: apps/v1
2.  kind: Deployment
3.  metadata:
4.    name: nginx-deployment
5.    labels:
6.      app: web
7.  spec:
8.    selector:
9.      matchLabels:
10.     app: web
11.   replicas: 5
12.   strategy:
13.     type: RollingUpdate
14.   template:
15.     metadata:
16.       labels:
17.         app: web
18.     spec:
19.       affinity:
20.         nodeAffinity:
21.           requiredDuringSchedulingIgnoredDuringExecution:
22.             nodeSelectorTerms:
23.               -matchExpressions:
24.                 -key: disktype
25.                   operator: In
26.                   values:
27.                     -ssd
28.       containers:
29.         -name: nginx
30.           image: nginx
31.           ports:
32.             -containerPort: 80
```

Pros - Cons

Azure Kubernetes Service



AKS Landscape



Scale node pool

agentpool

You can scale the number of nodes in your cluster to increase the total amount of cores and memory available for your container applications. [Learn more](#)

Scale method ⓘ

Manual

Autoscale - **Recommended**

This option is recommended so that the cluster is automatically sized correctly for the current running workloads.

Node count range ⓘ

3

Min: 1

8

Max: 1000

Node pool capacity

Virtual machine size

Standard DS2 v2 (2 vcpus, 7 GiB memory)

Maximum cores

16 vCPUs

Maximum memory

56 GiB

Usage

i The metrics included here are intended to provide context regarding scaling. To view all cluster metrics, including node pool metrics, go to the cluster [metrics view](#).

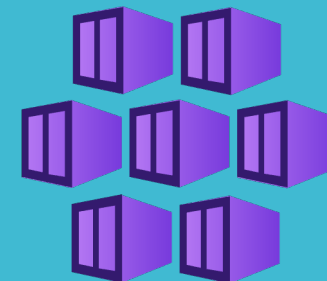
Show data for last:

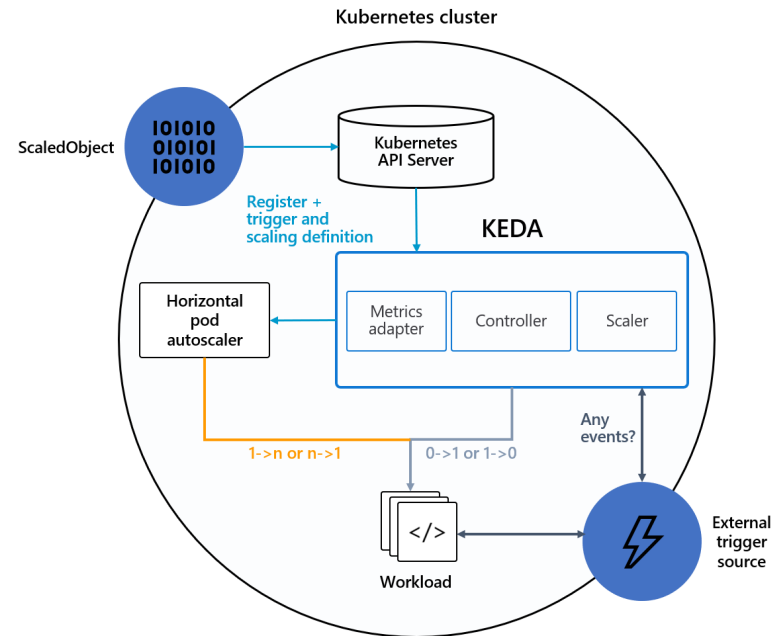
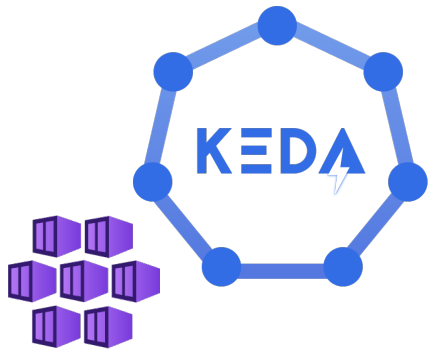
30 days



Cluster Autoscaling

Azure Kubernetes Service





Found 9 results for "azure"

Azure Monitor

Scale applications based on Azure Monitor metrics.

Availability v1.3+

Maintainer:
Microsoft

Azure Pipelines

Scale applications based on agent pool queues for Azure Pipelines.

Availability v2.3+

Maintainer:
Microsoft

Azure Event Hubs

Scale applications based on Azure Event Hubs.

Availability v1.0+

Maintainer:
Microsoft

Azure Storage Queue

Scale applications based on Azure Storage Queues.

Availability v1.0+

Maintainer:
Microsoft

Azure Application Insights

Scale applications based on Azure Application Insights metrics.

Availability v2.6+

Maintainer:
Microsoft

Azure Data Explorer

Scale applications based on Azure Data Explorer query result.

Availability v2.7+

Maintainer:
Microsoft

Azure Log Analytics

Scale applications based on Azure Log Analytics query result

Availability v2.0+

Maintainer:
Microsoft

Azure Service Bus

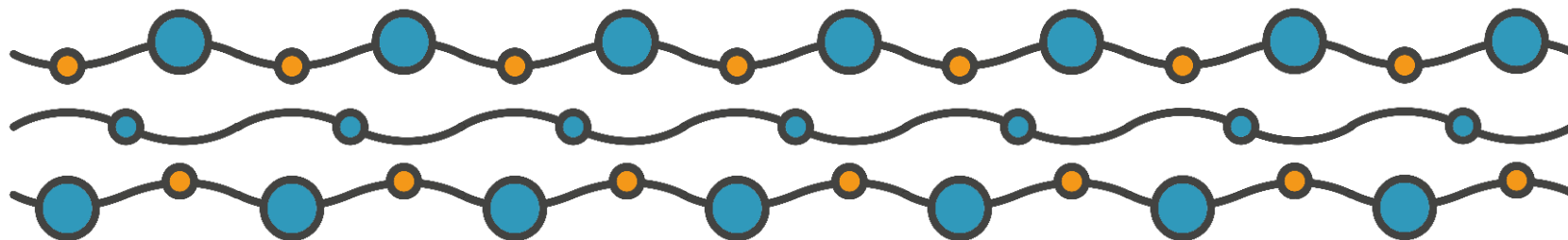
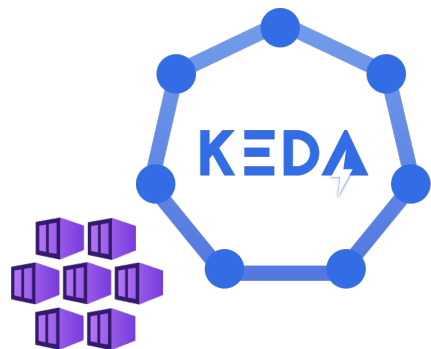
Scale applications based on Azure Service Bus Queues or Topics.

Availability v1.0+

Maintainer:
Microsoft

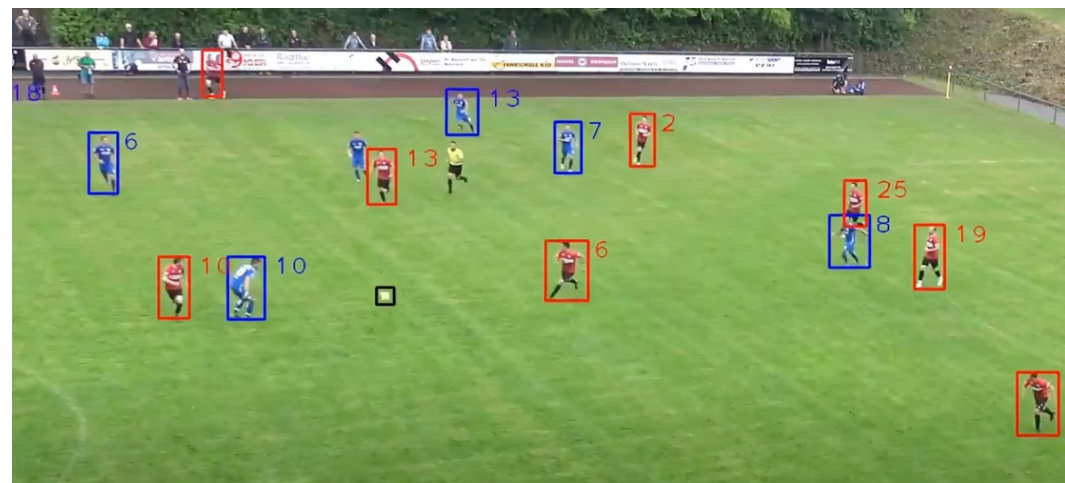
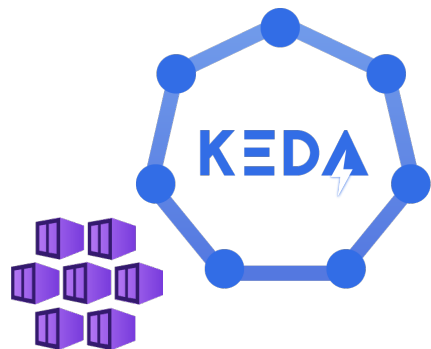
KEDA

Kubernetes Event Driven Autoscaler



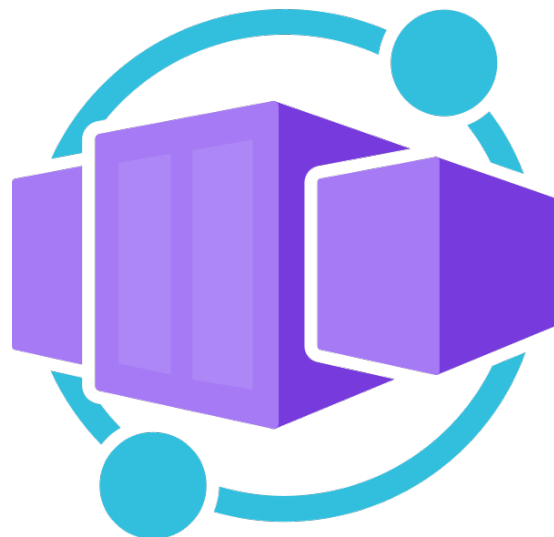
KEDA

Use Case: Data Stream Processing



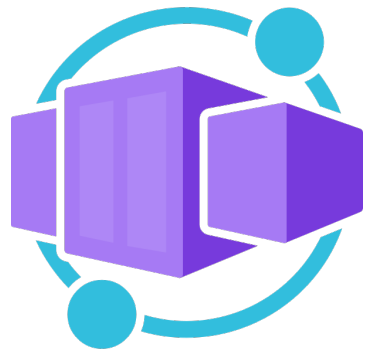
KEDA

Use Case: Artificial Intelligence



Azure Container Apps

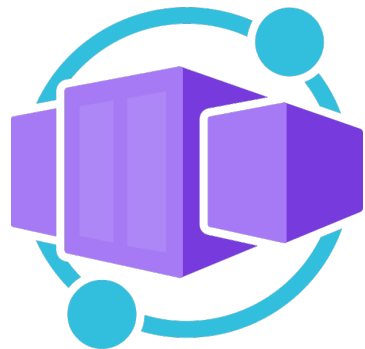
Kubernetes, without Kubernetes



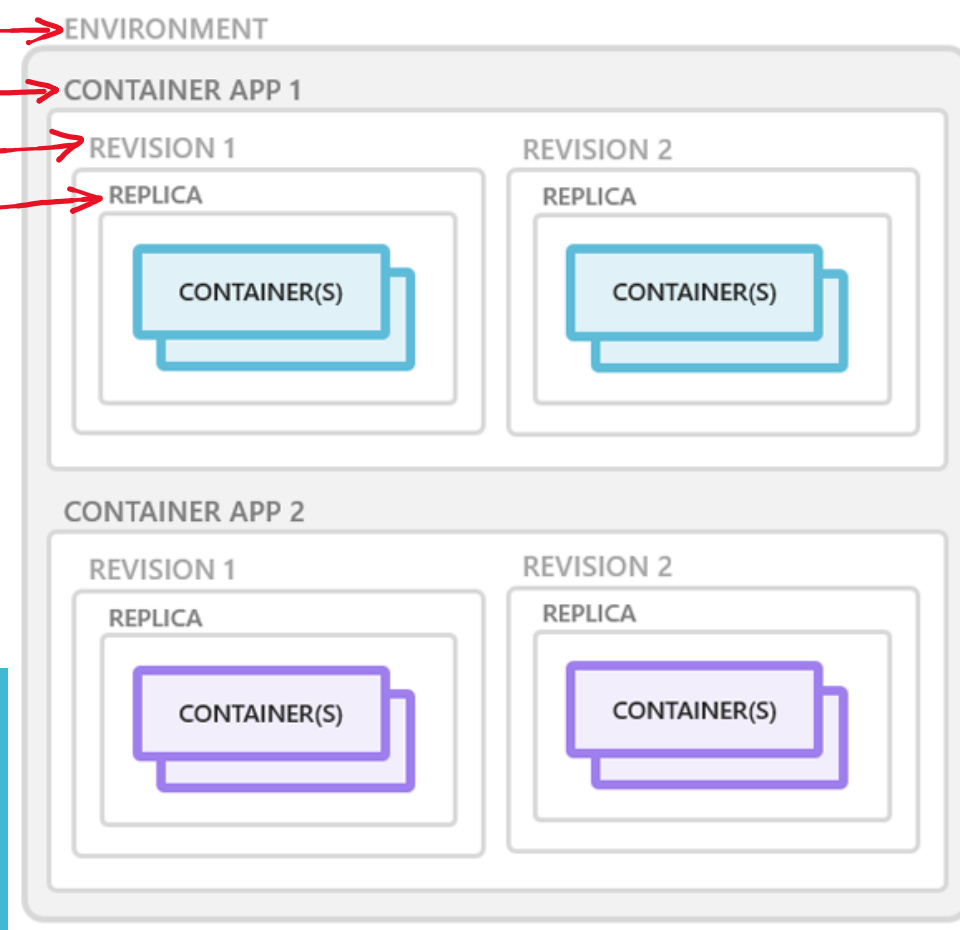
- Managed
- Velocity
- Tools
 - Dapr, KEDA, Envoy
- No control

Pros - Cons

Azure Container Apps

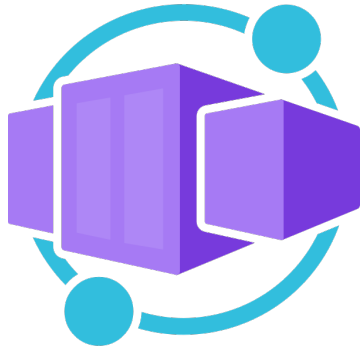


Cluster
Deployment
ReplicaSet
Pod

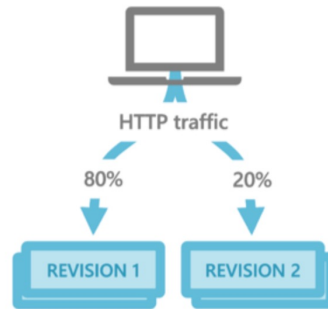


Environment

Azure Container Apps



PUBLIC API ENDPOINTS



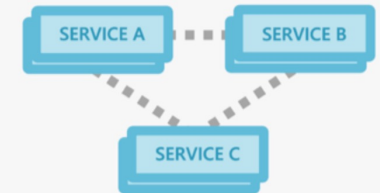
BACKGROUND PROCESSING



EVENT-DRIVEN PROCESSING

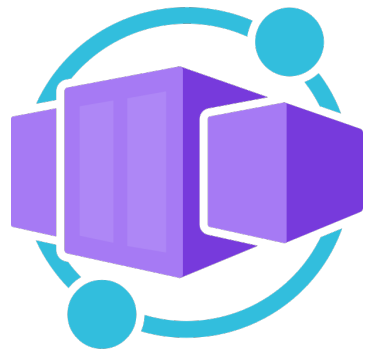


MICROSERVICES



Service Types

Azure Container Apps



Daemonset

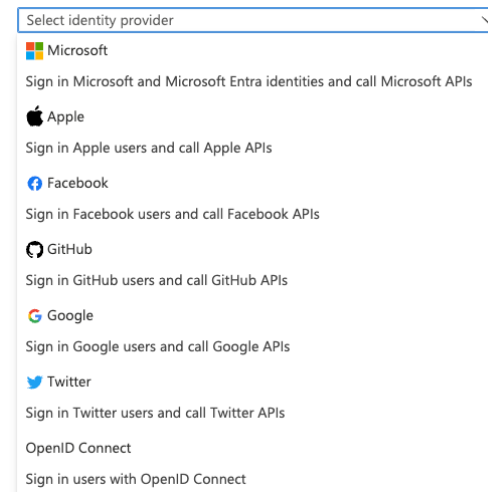
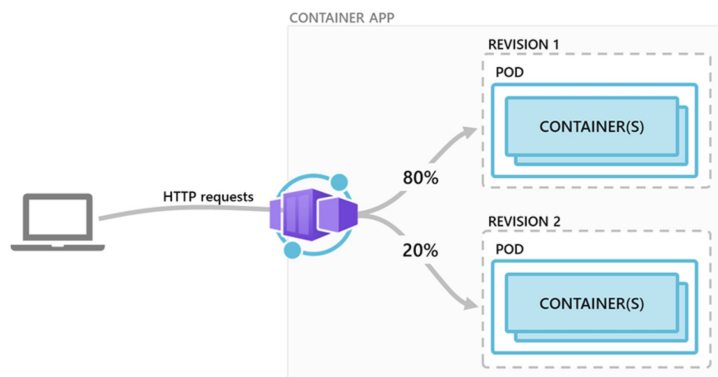
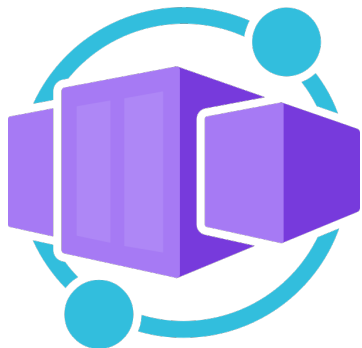


Statefulset

Service Types

Azure Container Apps

Https://{app}.{environment}.{region}.azurecontainersapps.io
Https://{app}.{my-domain}.com

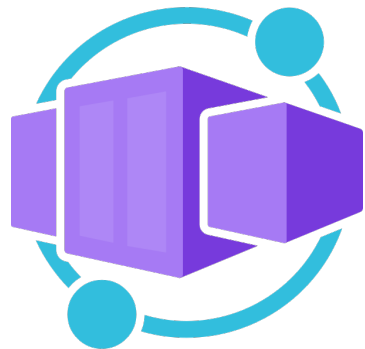


- Timeouts
- HTTP retries
- TCP retries
- Circuit Breaker
- HTTP connection pools
- TCP connection pools

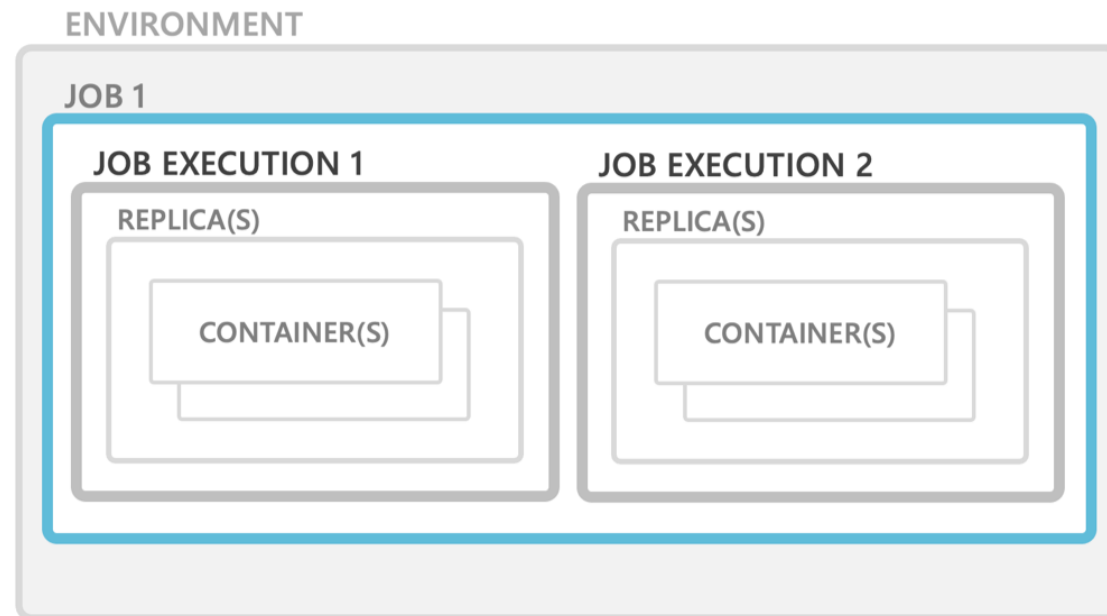
Http Proxy

Azure Container Apps





- Manual
- Scheduled
- Event Driven



Jobs

Azure Container Apps



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