




Goodbye Azure
Kubernetes Service!

Hello Azure
Container Apps!










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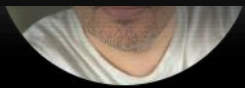
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Containers



Lightweight



Fast



Package once,
run anywhere

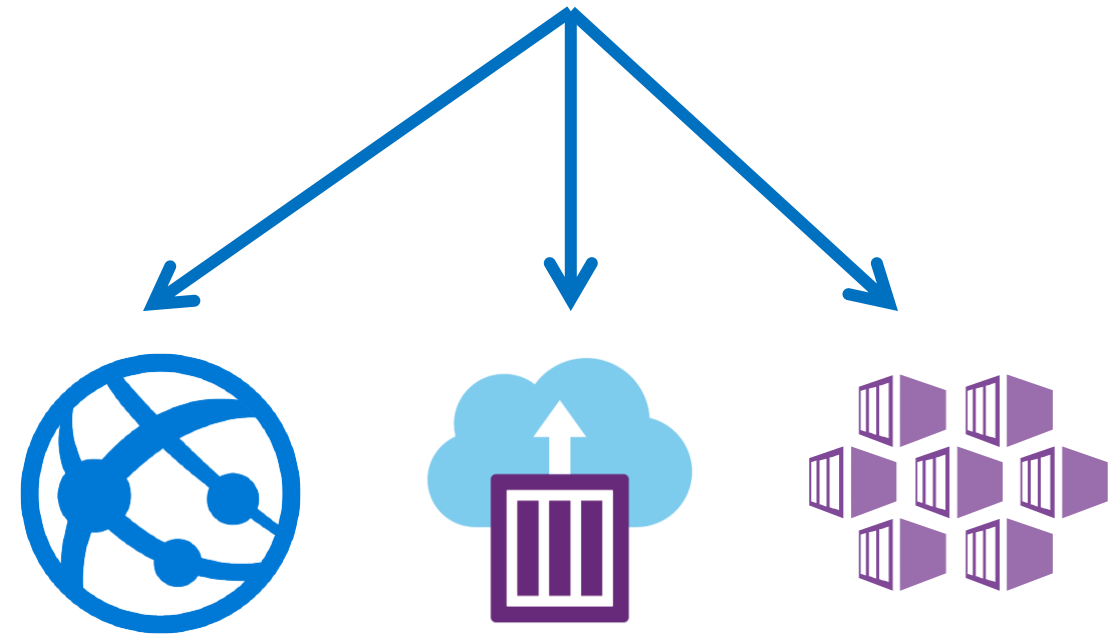
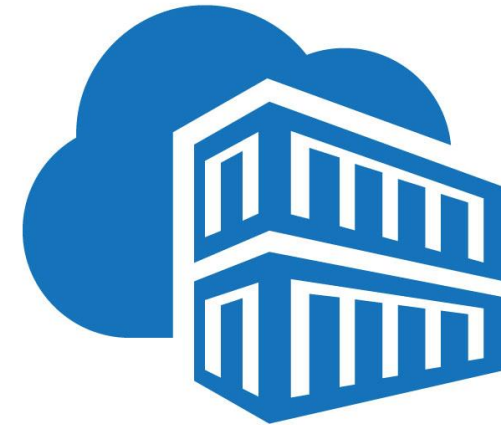


Windows/Linux

```
1 // The module 'vscode' contains the VS Code extensibility API
2 // Import the module and reference it with the alias vscode in your code below
3 import * as vscode from 'vscode';
4
5 // this method is called when your extension is activated
6 // your extension is activated the very first time the command is executed
7 export function activate(context: vscode.ExtensionContext) {
8
9     // Use the console to output diagnostic information (console.log) and errors (console.error)
10    // This line of code will only be executed once when your extension is activated
11    console.log('Congratulations, your extension "myfirstextension" is now active!');
12    context.subscriptions
13
14    // The vscode environmentVariableCollection
15    // Now p extension
16    // The extensionNode
17    let disp extensionPath
18    // T extensionUri
19    // D globalState
20    vsco globalStorageUri
21    // logUri
22    // secrets
23    context storageUri
24    // subscriptions
25
26    // this method is called when your extension is deactivated
27    export function deactivate() {}
28}
```

Code
Dockerfile
docker build

Push image
to ACR



Pull image
to compute



Container
Instances



App Services



Kubernetes
Services



Virtual
Machines



Simple

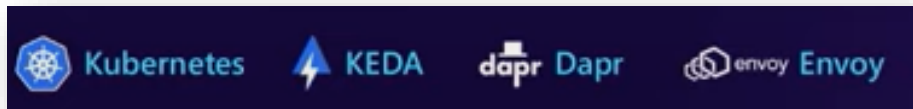
Complex



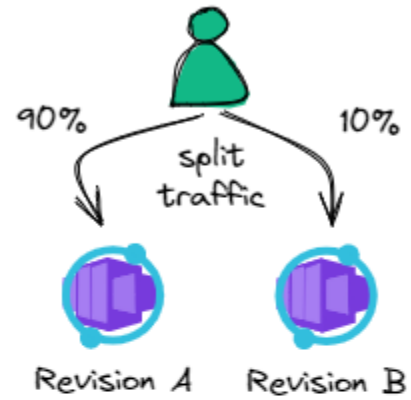
Container
Apps

Container Apps

- Serverless containers for microservices
- Focus on apps, not infrastructure
- Scale dynamically based on events
- Built on open source

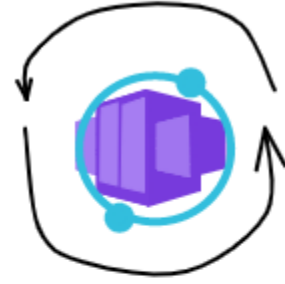


APIs and web apps



Scale based on
concurrent HTTP requests
Default = 10

Background Processing



Continuously running
background process

Scale based on
CPU and memory
(Keda scalers)

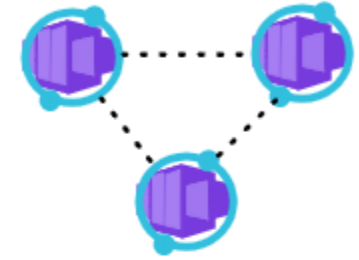
Event Processing



Reading messages from
a topic or queue

Scale based on
messages in the topic/queue
(Keda scalers)

Microservices



Microservices

Optional Dapr Integration



Scale based on
any Keda scalers

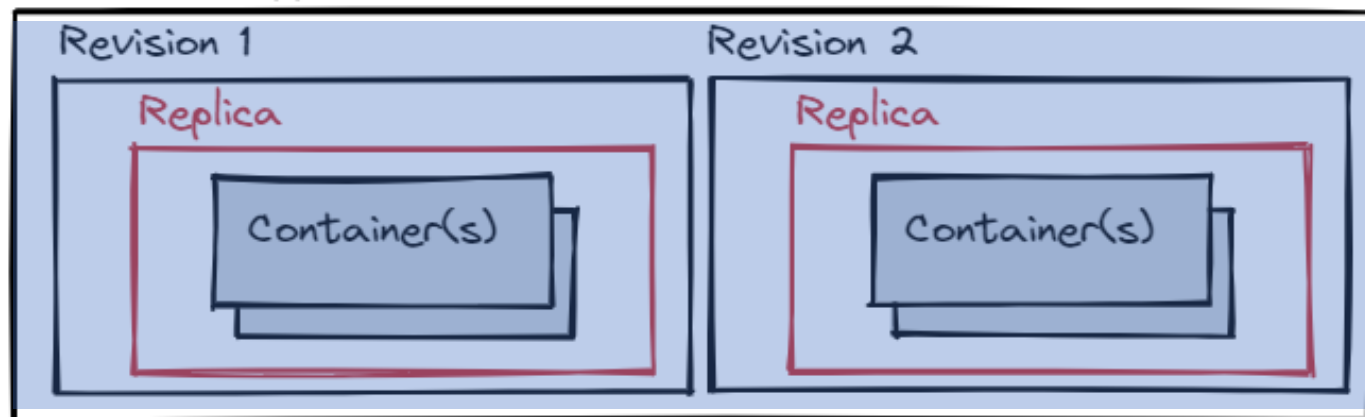
Optional link
to VNET

Container Apps Environment

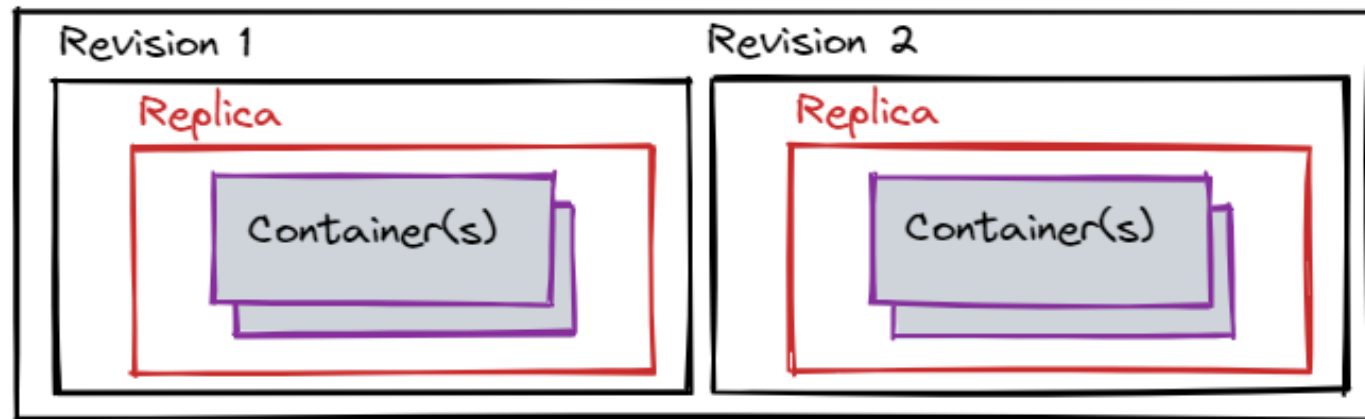
AKS under the hood



Container App 1



Container App 2



Container Apps Environment

AKS under the hood



Container App 1

Revision 1

Revision 2

Replica

Replica

Container(s)

Container(s)



Container App 2

Revision 1

Revision 2

Replica

Replica

Container(s)

Container(s)



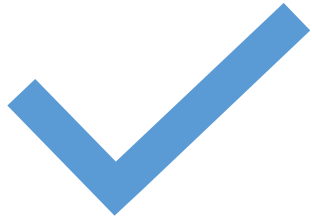
Optional link
to VNET

Some rules



- Linux/amd64 container images only
- No privileged containers
- Maximum 2 cores and 4GB of RAM with fixed combinations
 - 0.25 cores per 0.5 Gi ⚠
- You can have more than one container in a container app

Azure Container Apps on Azure Arc



In public preview



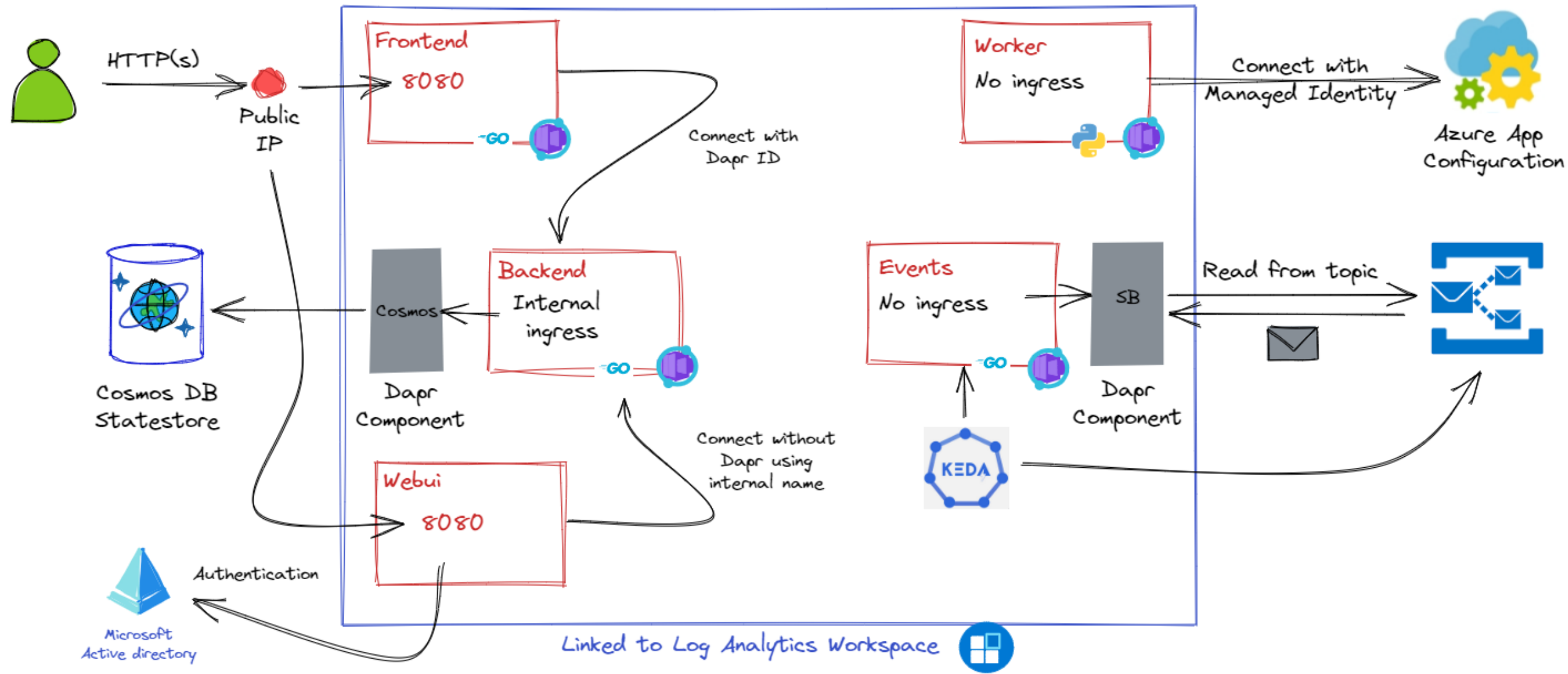
Some limitations:

Limited regions

LoadBalancer service type required

Managed Identity

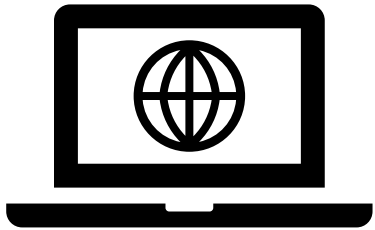
Container App Environment - No VNET - powered by



Extra resources



<https://github.com/gbaeke/aca>



<https://aca.super.site>