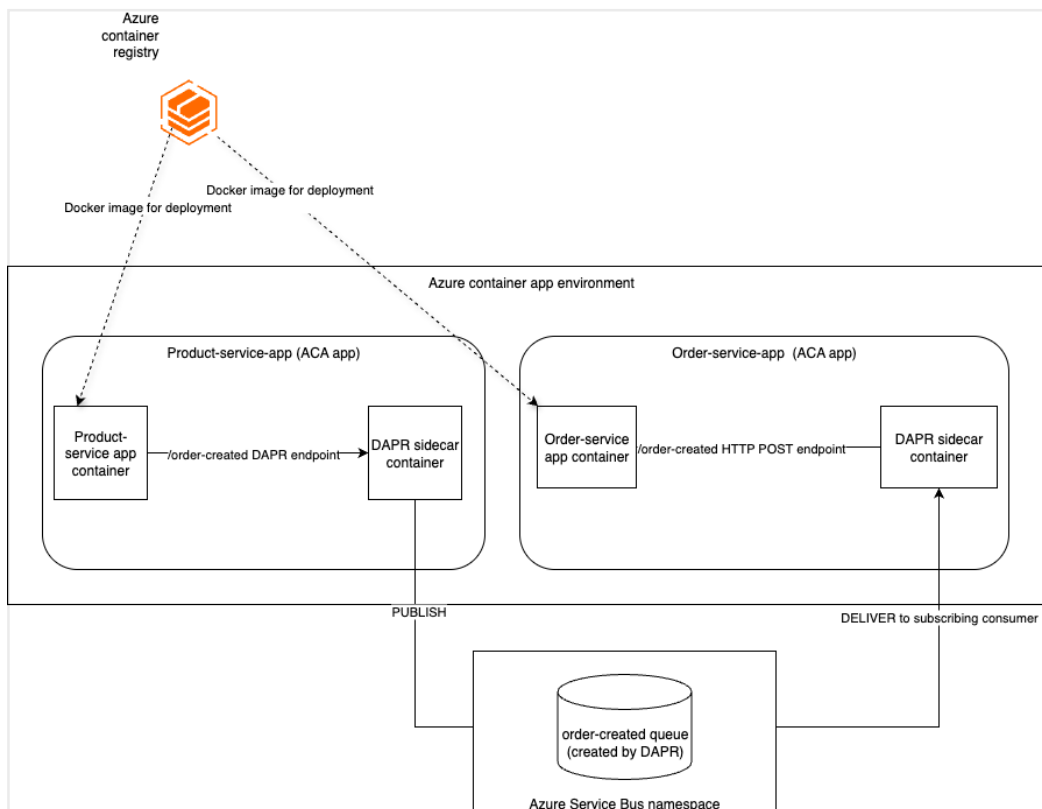


# Architecture & Azure resources

Name	Type	Location
dapr-identity	Managed Identity	East US 2
dapr-servicebus-identity	Managed Identity	East US 2
introspect1b-servicebus	Service Bus Namespace	East US
introspect1bdaprenv	Container Apps Environment	East US 2
maintainintrospect1acr1	Container registry	East US 2
order-service-app	Container App	East US 2
product-service-app	Container App	East US 2
workspace-introspect1besrh	Log Analytics workspace	East US 2

Here is a diagram explaining communication between components. ACR is displayed to stress what I build and deploy on my own as opposed to Azure provided dependencies.



## Test

Product-service is invoked through http POST. The sent payload is later sent through DAPR to order-service - see how the JSON with order details is reflected in different services.

```
Terminal  order-service ×  product-service ×  cicd ×  RunMarkdown ×  + ×

2132048@LT-HYFF2JXP9V-DEV cicd % curl -X POST https://$(az containerapp show --name product-service-app --resource-group $RESOURCE_GROUP --query properties.configuration.ingress.fqdn --output tsv)/order-products \
-H "Content-Type: application/json" \
-d '{"productId": "1", "quantity": 10, "customerId": "mantas"}'
WARNING: The behavior of this command has been altered by the following extension: containerapp
{"message": "Order created and event published"}
2132048@LT-HYFF2JXP9V-DEV cicd % curl -X POST https://$(az containerapp show --name product-service-app --resource-group $RESOURCE_GROUP --query properties.configuration.ingress.fqdn --output tsv)/order-products \
-H "Content-Type: application/json" \
-d '{"productId": "2", "quantity": 20, "customerId": "foo-bar"}'
WARNING: The behavior of this command has been altered by the following extension: containerapp
{"message": "Order created and event published"}
2132048@LT-HYFF2JXP9V-DEV cicd % curl -X POST https://$(az containerapp show --name product-service-app --resource-group $RESOURCE_GROUP --query properties.configuration.ingress.fqdn --output tsv)/order-products \
-H "Content-Type: application/json" \
-d '{"productId": "3", "quantity": 30, "customerId": "bar-foo"}'
WARNING: The behavior of this command has been altered by the following extension: containerapp
{"message": "Order created and event published"}
2132048@LT-HYFF2JXP9V-DEV cicd %
```

## Product-service (app and dapr containers):

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product-service-app | Log stream

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product-service-app--0000001

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Replica

product-service-app--0000001-76d9b5475d-m94th

Container

product-service-app

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Stop

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Clear

```
Connecting to stream...
2025-08-19T05:03:13.32267 Connecting to the container 'product-service-app'...
2025-08-19T05:03:13.35879 Successfully Connected to container: 'product-service-app' [Revision: 'product-service-app--0000001-76d9b5475d-m94th']
2025-08-19T04:59:37.0538972 stdout F Product service listening on port 3000!
2025-08-19T05:02:37.01298592 stdout F sent order event: {"productId":"1","quantity":10,"customerId":"mantas"}
2025-08-19T05:02:48.01609872 stdout F sent order event: {"productId":"2","quantity":20,"customerId":"foo-bar"}
2025-08-19T05:02:56.38419512 stdout F sent order event: {"productId":"3","quantity":30,"customerId":"bar-foo"}
```

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product-service-app--0000001-76d9b5475d-m94th

Container

dapr

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Stop

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Maximize

```
2025-08-19T04:59:38.8898472 stdout F time="2025-08-19T04:59:38.889783086Z" level=info msg="application protocol: http, waiting on port 3000. This will block until the app is listening on that port." app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.89810332 stdout F time="2025-08-19T04:59:38.898039041Z" level=info msg="application discovered on port 3000" app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.8958662 stdout F time="2025-08-19T04:59:38.895496498Z" level=info msg="Application configuration loaded" app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.89569392 stdout F time="2025-08-19T04:59:38.895519743Z" level=info msg="actors: state store is not configured - this is okay for clients but services with hosted actors will fail to initialize!" app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.89571442 stdout F time="2025-08-19T04:59:38.895551461Z" level=info msg="Configuring actors placement provider 'placement'. Configuration: 'placement:dapr-placement-server,k8s-system.svc.cluster.local:50005'" app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.89572452 stdout F time="2025-08-19T04:59:38.895737834Z" level=info msg="Configuring actor reminders provider 'default'. Configuration: "" app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.8957242 stdout F time="2025-08-19T04:59:38.895612254Z" level=info msg="Actor runtime started. Idle timeout: 1h0m0s" app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.89577412 stdout F time="2025-08-19T04:59:38.89563648Z" level=info msg="Configuring workflow engine with actors backend" app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.89585192 stdout F time="2025-08-19T04:59:38.895643611Z" level=info msg="Registering component for dapr workflow engine..." app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.89586862 stdout F time="2025-08-19T04:59:38.895663652Z" level=info msg="Initializing Dapr workflow component" app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.89586472 stdout F time="2025-08-19T04:59:38.895677913Z" level=info msg="Workflow engine initialized." app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T04:59:38.9046312 stdout F time="2025-08-19T04:59:38.90367852Z" level=info msg="dapr initialized. Status: Running. Init elapsed 27ms" app_id=product-service instance=product-service-app--0000001-76d9b5475d-m94th scope=dapr.runtime type=log ver=1.13.6-msft.6
2025-08-19T05:02:37.00672002 stdout F time="2025-08-19T05:02:37.006494964Z" level=info msg="HTTP API Called" app_id=product-service code=204 duration=3549 instance=product-service-app--0000001-76d9b5475d-m94th method=PublishEvent scope=dapr.runtime.http-info size=0 type=log useragent=node ver=1.13.6-msft.6
2025-08-19T05:02:48.01543142 stdout F time="2025-08-19T05:02:48.015200989Z" level=info msg="HTTP API Called" app_id=product-service code=204 duration=15 instance=product-service-app--0000001-76d9b5475d-m94th method=PublishEvent scope=dapr.runtime.http-info size=0 type=log useragent=node ver=1.13.6-msft.6
2025-08-19T05:02:56.38355472 stdout F time="2025-08-19T05:02:56.383376876Z" level=info msg="HTTP API Called" app_id=product-service code=204 duration=16 instance=product-service-app--0000001-76d9b5475d-m94th method=PublishEvent scope=dapr.runtime.http-info size=0 type=log useragent=node ver=1.13.6-msft.6
```

order-service:

**Microsoft Azure**

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Replica

Container

```

2025-08-19T04:58:05.47971719Z stdout F time="2025-08-19T04:58:05.47869808Z" level=info msg="gRPC server listening on TCP address :50002"
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.grpc.internal type=log ver=1.13.6-msft.6
level=info msg="Enabled gRPC tracing middleware"
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.grpc.internal type=log ver=1.13.6-msft.6
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.grpc.internal type=log ver=1.13.6-msft.6
2025-08-19T04:58:05.47877412Z stdout F time="2025-08-19T04:58:05.47868809Z" level=info msg="Internal gRPC server is running on port 50002"
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.47879117Z stdout F time="2025-08-19T04:58:05.47869397Z" level=info msg="application protocol: init, waiting on port 3000. This will block until the app is listening on that port."
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.47910147Z stdout F time="2025-08-19T04:58:05.479016945Z" level=info msg="Application discovered on port 3000"
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.48625622Z stdout F time="2025-08-19T04:58:05.486110906Z" level=info msg="Application configuration loaded"
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.48627522Z stdout F time="2025-08-19T04:58:05.48613311Z" level=info msg="actors: state store is not configured - this is okay for clients but users with hosted actors will fail to initialize."
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.48631682Z stdout F time="2025-08-19T04:58:05.486161371Z" level=info msg="Configuring actors placement provider 'placement'. Configuration: {placement:dapr-placement-server,k8se-system,svc.cluster.local}
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.48633922Z stdout F time="2025-08-19T04:58:05.486180169Z" level=info msg="Configuring actor reminders provider 'default'. Configuration: {}
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.48655072Z stdout F time="2025-08-19T04:58:05.486223884Z" level=info msg="Actor runtime started. Idle timeout: 1h00ms"
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.48655912Z stdout F time="2025-08-19T04:58:05.486240382Z" level=info msg="Configuring workflow engine with actors backend"
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.48655942Z stdout F time="2025-08-19T04:58:05.486247692Z" level=info msg="Registering component for dapr workflow engine."
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.486776172Z stdout F time="2025-08-19T04:58:05.486262972Z" level=info msg="Initializing Dapr workflow component"
app_id=order-service component=dapr.workflow.dapr.v1 instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.contrib.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.48695742Z stdout F time="2025-08-19T04:58:05.486601103Z" level=info msg="Workflow engine initialized."
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
2025-08-19T04:58:05.49079312Z stdout F time="2025-08-19T04:58:05.489000414Z" level=info msg="app is subscribed to the following topics: [order-created] through pubsub/pubsub"
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.processor.pubsub.typelog ver=1.13.6-msft.6
2025-08-19T04:58:06.44788042Z stdout F time="2025-08-19T04:58:06.447573042Z" level=info msg="Dapr initialized. Status: Running. Init Elapsed: 979ms"
app_id=order-service instance=order-service-app--000001-778d5bbcbd-gmwmq scope=dapr.runtime.typelog ver=1.13.6-msft.6
    
```

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