

Kafka Connect

1. Terraform apply (updated vm size to 2xStandard_D4_v3):

```
MINGW64:/c:/Users/yura1/Desktop/New folder/hw/test/kafka/task2/m11_kafkaconnect_json_azure-master/terraform
azurerm_kubernetes_cluster.bdcc: Still creating... [03m00s elapsed]
azurerm_kubernetes_cluster.bdcc: Still creating... [03m10s elapsed]
azurerm_kubernetes_cluster.bdcc: Creation complete after 3m13s [id=/subscriptions/04f2456f-
rope-nguk/providers/Microsoft.ContainerService/managedClusters/aks-dev-northeurope-nguk]
azurerm_role_assignment.aks_acr_pull: Creating...
kubernetes_namespace.confluent: Creating...
kubernetes_namespace.confluent: Creation complete after 0s [id=confluent]
azurerm_role_assignment.aks_acr_pull: Still creating... [00m10s elapsed]
azurerm_role_assignment.aks_acr_pull: Still creating... [00m20s elapsed]
azurerm_role_assignment.aks_acr_pull: Creation complete after 24s [id=/subscriptions/04f245
heurope-nguk/providers/Microsoft.ContainerRegistry/registries/acrdevnortheuropenguk/provide
3875-99e4-efce5c3233b6]

Warning: Deprecated Resource

  with kubernetes_namespace.confluent,
  on main.tf line 114, in resource "kubernetes_namespace" "confluent":
114: resource "kubernetes_namespace" "confluent" {

Deprecated; use kubernetes_namespace_v1.

Releasing state lock. This may take a few moments...

Apply complete! Resources: 9 added, 0 changed, 0 destroyed.

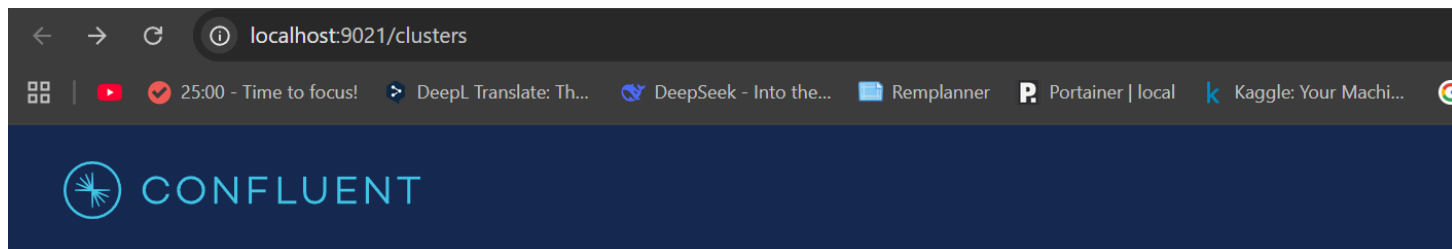
Outputs:

acr_login_server = "acrdevnortheuropenguk.azurecr.io"
aks_api_server_url = <sensitive>
aks_kubeconfig = <sensitive>
aks_name = "aks-dev-northeurope-nguk"
client_certificate = <sensitive>
resource_group_name = "rg-dev-northeurope-nguk"
storage_account_name = "stdevnortheuropenguk"
storage_primary_access_key = <sensitive>
```

2. Confluent Platform pods (decreased number of replicas for zookeeper to 1, also reduced amount of allocated resources for some modules):

```
yura1@pc MINGW64 ~/Desktop/New folder/hw/test/kafka/task2/m11_kafkaconnect_json_azure-master (main)
$ kubectl get pods -o wide
NAME                                READY   STATUS    RESTARTS   AGE   IP              NODE
ADINESS GATES
confluent-operator-8446f997d8-xmwpv 1/1     Running   0           31m   10.244.0.9      aks-default-40341999-vmss000001
one>
connect-0                            1/1     Running   0           4m4s   10.244.0.0      aks-default-40341999-vmss000001
one>
controlcenter-0                     1/1     Running   0           2m4s   10.244.1.114    aks-default-40341999-vmss000000
one>
elastic-0                           1/1     Running   3 (2m55s ago) 3m33s  10.244.1.70     aks-default-40341999-vmss000000
one>
kafka-0                             1/1     Running   1 (2m20s ago) 3m4s   10.244.1.243    aks-default-40341999-vmss000000
one>
kafka-1                             1/1     Running   0           3m4s   10.244.1.87     aks-default-40341999-vmss000000
one>
kafka-2                             1/1     Running   0           3m4s   10.244.1.15     aks-default-40341999-vmss000000
one>
ksqldb-0                             1/1     Running   0           2m4s   10.244.0.92     aks-default-40341999-vmss000001
one>
schemaregistry-0                   1/1     Running   0           2m4s   10.244.1.192    aks-default-40341999-vmss000000
one>
zookeeper-0                        1/1     Running   0           4m5s   10.244.0.178    aks-default-40341999-vmss000001
one>
```

3. Control center at localhost:



Home

1

Healthy clusters

0

Unhealthy clusters



Search cluster name or id

controlcenter.cluster

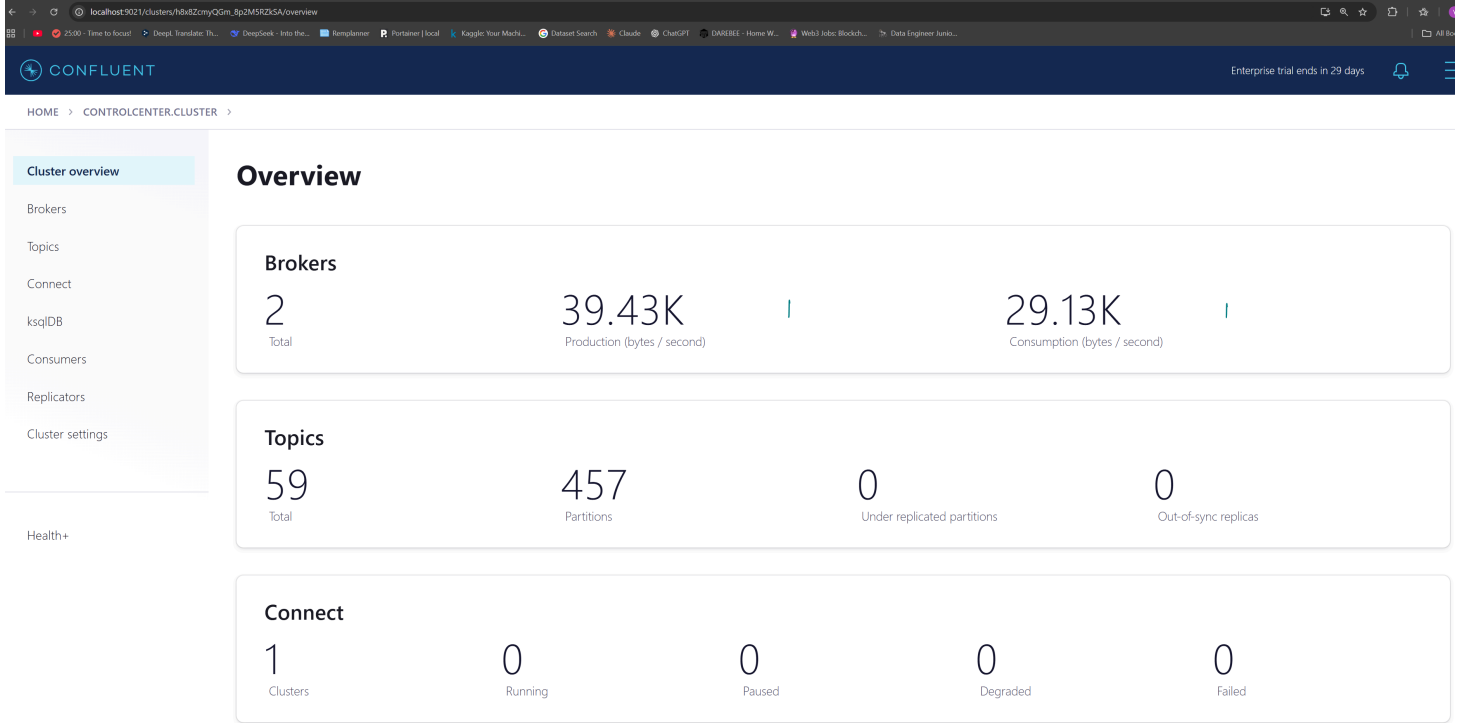
Running

Overview

Brokers	2
Partitions	457
Topics	59
Production	48.73KB/s
Consumption	39.33KB/s

Connected services

ksqlDB clusters	1
Connect clusters	1



4. Kafka topic creation:

```
PS C:\WINDOWS\system32> Start-Process powershell -WindowStyle Hidden -ArgumentList 'kubectl port-forward connect-0 8083:8083 *> $null'
PS C:\WINDOWS\system32> kubectl exec kafka-0 -c kafka -- bash -c "/usr/bin/kafka-topics --create --topic expedia --replication-factor 3 --partitions 3 --bootstrap-server kafka:9092"
Created topic expedia.
PS C:\WINDOWS\system32>
```

Cluster overview

Brokers

Topics

Connect

ksqlDB

Consumers

Replicators

Cluster settings

Health+

expedia

Overview

Messages

Schema

Configuration

General settings

name	expedia
partitions	3
min.insync.replicas	2
cleanup.policy	delete
retention.ms	604800000
max.message.bytes	1048588
retention.bytes	-1

[✎ Edit settings](#)
[☰ Show full config](#)

5. Data loaded to Azure Container:

Home > Resource Manager | Resource groups > rg-dev-northeurope-nguk > stdevnortheuropenguk | Containers >


data

Container

 Search

Overview

🔧 Diagnose and solve problems

👤 Access Control (IAM)

> Settings

+ Add Directory ↑ Upload ↻ Refresh | 🗑 Delete 📄 Copy 📄 Paste 🗨

data

Authentication method: Access key ([Switch to Microsoft Entra user account](#))

 Search blobs by prefix (case-sensitive)

Showing all 1 items

<input type="checkbox"/>	Name	Last modified
<input type="checkbox"/>	📁 topics	1/14/2026, 10:29:42 PM

Cluster overview

Brokers

Topics

Connect

ksqlDB

Consumers

Replicators

Cluster settings

Health+

expedia

Produce a new message

Overview Messages Schema Configuration

Production

0 B/s

Consumption

0 B/s

Total messages

2,344,465

Retention time

1 week

🔍 Filter by timestamp, offset, key or value

All partitions



Latest



Max 50 results



33 messages shown



Auto-refresh on

📄 CSV

📄 JSON

Timestamp	Offset	Partition	Key	Value	
1768428385003	564200	1	""	{"id":"1114443","date_time":"0000-00-00 00:00:00","site_name":2,"posa_container":null,"user_location_country":1,"user_location_r...	👁
1768428385003	564201	1	""	{"id":"1114549","date_time":"0000-00-00 00:00:00","site_name":2,"posa_container":null,"user_location_country":66,"user_location...	👁
1768428385003	564202	1	""	{"id":"1114553","date_time":"0000-00-00 00:00:00","site_name":11,"posa_container":null,"user_location_country":205,"user_locatio...	👁
1768428385003	564203	1	""	{"id":"1114574","date_time":"0000-00-00 00:00:00","site_name":2,"posa_container":null,"user_location_country":66,"user_location...	👁
1768428385003	564204	1	""	{"id":"1114581","date_time":"0000-00-00 00:00:00","site_name":2,"posa_container":null,"user_location_country":66,"user_location...	👁

Date fields masked by MaskField transformer:

Message details



Timestamp	Offset	Partition
1/14/2026, 11:06:25 PM (1768428385003)	564200	1

KeyValueHeaders

12

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

{
 "id": 1114443,
 "date_time": "0000-00-00 00:00:00",
 "site_name": 2,
 "posa_container": null,
 "user_location_country": 1,
 "user_location_region": 395,
 "user_location_city": 29254,
 "orig_destination_distance": 255.9227,
 "user_id": 107773,
 "is_mobile": 0,
 "is_package": 0,
 "channel": 10,
 "srch_ci": "0000-00-00 00:00:00",
 "srch_co": "0000-00-00 00:00:00",
 "srch_adults_cnt": 1,
 "srch_children_cnt": 0,
 "srch_rm_cnt": 1,
 "srch_destination_id": 20410

Copy

```
19     srch_destination_id : 20410,  
20     "srch_destination_type_id": 6,  
21     "hotel_id": 1348619730946  
22 }
```