Universal Contact Service Private Edition Guide

Deploy Universal Contact Service

4/25/2026

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Learn how to deploy Universal Contact Service (UCS) into a private edition environment.

Related documentation:

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- For private edition

Assumptions

- The instructions on this page assume you are deploying the service in a service-specific namespace, named in accordance with the requirements on Creating namespaces. If you are using a single namespace for all private edition services, replace the namespace element in the commands on this page with the name of your single namespace or project.
- Similarly, the configuration and environment setup instructions assume you need to create namespace-specific (in other words, service-specific) secrets. If you are using a single namespace for all private edition services, you might not need to create separate secrets for each service, depending on your credentials management requirements. However, if you do create service-specific secrets in a single namespace, be sure to avoid naming conflicts.

> **Important**
> Make sure to review Before you begin for the full list of prerequisites required to deploy UCS.

This chart bootstraps an UCS deployment on a Kubernetes cluster using the Helm package manager.

Create a project

Google Kubernetes Engine

1. Log in to the GKE cluster.

```
gcloud container clusters get-credentials gke1
```

2. Create a new manifest for UCS.

```
{
"apiVersion": "v1",
"kind": "Namespace",
"metadata": {
"name": "ucsx",
"labels": {
"name": "ucsx"
}
}
}
```

3. Create the namespace by applying the manifest to the cluster.

```
kubectl apply -f apply create-ucsx-namespace.json
```

4. Confirm if the namespace is created.

```
kubectl describe namespace ucsx
```

Azure Kubernetes Service

1. Log in to the AKS cluster.

```
az aks get-credentials --resource-group $RESOURCE_GROUP --name $AKS_CLUSTER_NAME
```

2. Create a new manifest for UCS.

```
{
"apiVersion": "v1",
"kind": "Namespace",
"metadata": {
"name": "ucsx",
"labels": {
"name": "ucsx"
}
}
}
```

3. Create the namespace by applying the manifest to the cluster.

```
kubectl apply -f apply create-ucsx-namespace.json
```

4. Confirm if the namespace is created.

```
kubectl describe namespace ucsx
```

Prepare the Helm values file

Create a file named **values-override.yaml** and set the following values depending on your environment.

```
# Default values for ucsx.
# This is a YAML-formatted file.
```

```
# Declare variables to be passed into your templates.

# * Deployment
# Only two possible values are supported: Deployment, ReplicaSet
deploymentType: Deployment

# * Replicacount
replicaCount: 1

# * Images
# Replace for your values: registry and secret
image:
  pullPolicy: IfNotPresent
  pullSecrets: [name: ${DOCKER_REGISTRY_SECRET_NAME}]
  registry: ${DOCKER_SERVER}
  repository: ucsx/ucsx

# * Pod configuration
affinity: {}

nodeSelector: {}

tolerations: []

priorityClassName: ''

podSecurityContext: {}
  # fsGroup: 2000

securityContext: {}
  # capabilities:
  #   drop:
  #   - ALL
  # readOnlyRootFilesystem: true
  # runAsNonRoot: true
  # runAsUser: 1000

podDisruptionBudget:
  enabled: false
  minAvailable: 1

podLabels: {}

podAnnotations: {}

hpa:
  enabled: false
  targetCPUPercent: 60
  minReplicas: 1
  maxReplicas: 10

resources:
  requests:
    memory: "500Mi"
    cpu: "300m"
  limits:
    memory: "1000Mi"
    cpu: "2000m"

serviceAccount:
  # Specifies whether a service account should be created
  create: false
  # Annotations to add to the service account
```

```
  annotations: {}
  # The name of the service account to use.
  # If not set and create is true, a name is generated using the fullname template
  name:

# * K8s secret and configmap
# If not set it will be created automatically
existingSecret: ucsx-secret
existingConfig: ucsx-config

# * Authentication
# Set your values.
gauth:
  auth:
    url: "http://${GAUTH_AUTH_URL_INTERNAL}:${GAUTH_AUTH_URL_PORT_INTERNAL}"
    clientId: "${GAUTH_CLIENT_ID}"
    clientSecret: "${GAUTH_CLIENT_SECRET}"
  env:
    url: "http://${GAUTH_ENV_URL_INTERNAL}:${GAUTH_ENV_URL_PORT_INTERNAL}"

# * ElasticSearch
# Replace with your values.
elasticsearch:
  url: "http://${ES_URL_INTERNAL}:${ES_PORT_INTERNAL}"

# * DB Parameters
# Set your values.
db:
  ssl:  'false'
  name: "${DB_NAME_SHARED}"
  host: "${DB_HOST_INTERNAL}"
  port: "${DB_PORT_INTERNAL}"
  user: "${DB_USER_SHARED}"
  password: "${DB_PASSWORD_SHARED}"

# * Service
service:
  enabled: true
  name: ucsx
  type: ClusterIP
  externalPort: ${UCSX_ENDPOINT_INTERNAL_EXTERNALPORT}
  env: {}
  annotations: {}

# * Ingress
ingress:
  enabled: true
  annotations: {}
  hosts:
    - host: "${UCSX_ENDPOINT}"
      paths:
        - path: '/ucs/v3/'
          port: ${UCSX_ENDPOINT_INTERNAL_EXTERNALPORT}
        - path: '/ucs/v3/config'
          port: ${UCSX_ENDPOINT_INTERNAL_CONFIGPORT}
  tls: []

# * Monitoring
monitoring:
  # Deploy ServiceMonitor
  enabled: false
  # Create PrometheusRule k8s object with alarm definitions
  alarms: false
```

```
  #  kibanaUrl:
  #  grafanaUrl:
  #  runbookUrl:

# * Network policies
# true or false
networkPolicies:
  enabled: false

# * DNS
dnsConfig:
  options:
    - name: ndots
      value: "3"

# * Healtcheck (Liveness and Readines)
livenessProbe:
  httpGet:
    path: /ucs/v3/healthcheck
    port: rest
  initialDelaySeconds: 5
  timeoutSeconds: 5
  periodSeconds: 30

readinessProbe:
  httpGet:
    path: /ucs/v3/healthcheck
    port: rest
  initialDelaySeconds: 10
  timeoutSeconds: 5
  periodSeconds: 30
```

Deploy the service

Install UCS X:

```
helm upgrade --install ucsx ucsxhelmrepo/ucsx --version= --namespace=ucsx  --set
existingSecret='' --set existingConfig=''-f values-override.yaml
```

Validate the deployment

To validate the install:

```
kubectl get pods -n=ucsx -l "app.kubernetes.io/name=ucsx,app.kubernetes.io/instance=ucsx"
```

Verify that details of the UCS X service deployment information is displayed.

To check the logs:

```
kubectl get pods -n ucsx
kubectl logs
```

curl requests

To get a bearer token:

```
curl -X POST https:///auth/v3/oauth/
token?grant_type=client_credentials&client_id=&client_secret=
```

To get a cluster version:

```
curl --request POST http:///ucs/v3/rest/request/get-version -H "Authorization: Bearer " -H
'Content-Type: application/json'
```

To get **/master-dbschema**:

```
curl -X GET http:///ucs/v3/config/master-dbschema -H "Authorization: Bearer " -H 'Content-
Type: application/json'
```