

Cloud Native Unica V12.1.1 Implementation Guide for Apache Tomcat

Contents

Chapter 1. Docker, Kubernetes, and Helm	
Docker overview	1
Kubernetes overview	2
Helm overview	2
Helm charts overview	3
Chapter 2. ELK Overview	4
Chapter 3. Pre-installation configurations	6
Avoiding timeout issues	6
Application server setup	7
Database setup	8
Listener Database client setup	10
Setting up the Cloud Native environment	10
Cloud Native Unica setup on SSL	13
Chapter 4. Cloud Native Unica Helm release architecture	14
Chapter 5. Helm chart configuration	15
Chapter 6. Installation and verifying the installation	17
Installation	17
Verifying the chart	18
Log files	18
Campaign Log Files	19
Chapter 7. Post installation configurations	20
Configurations for Campaign	20
Configuring multi-partitions for Campaign	20

Configurations for Director	22
Configurations for Interact	22
Configurations for Platform	23
Chapter 8. Upgrade of on-premises applications to Cloud Native Unica	26
Upgrade prerequisites	26
common-configMap configurations	29
JVM option configurations	30
Performing the upgrade	31
Configuring Unica Campaign post upgrade	31
Configuring Unica Interact post upgrade	31
Configuring Unica Platform post upgrade	32
Chapter 9. Scaling Unica containers	33
Scaling Listener containers	33
Load balancing	35
Listener integration	35
Scaling Interact containers	36
Chapter 10. Using Red Hat OpenShift	38
Security Context Constraints for Unica on Red Hat OpenShift	39
Chapter 11. Deployment monitoring	42
Deploying the dashboard user interface	42
Chapter 12. Product utilities	44
Unica Campaign	44
Unica Plan	45
Unica Platform	45
Chapter 13. FAQs and troubleshooting	46

	Frequently Asked Questions	46
	Question 1	46
	Question 2	46
	Question 3	47
	Question 4	47
	Question 5	48
	Question 6	48
	Troubleshooting Issues	49
	Question 1	49
	Question 2	49
	Question 3	49
Cha	napter 14. Uninstalling the chart	51
Cha	napter 15. Appendix: Description of Helm chart parameters	52
	Common configurations	52
	Common configurations	
		56
	Campaign configurations	56 63
	Campaign configurations Centralized Offer Management configurations	56 63
	Campaign configurations Centralized Offer Management configurations Collaborate configurations	63 65
	Campaign configurations Centralized Offer Management configurations Collaborate configurations Content Integration configurations	
	Campaign configurations Centralized Offer Management configurations Collaborate configurations Content Integration configurations Director configurations	5663656970
	Campaign configurations Centralized Offer Management configurations Collaborate configurations Content Integration configurations Director configurations Insights Reports configurations	5663657072
	Campaign configurations Centralized Offer Management configurations Collaborate configurations Content Integration configurations Director configurations Insights Reports configurations Interact configurations	566365707274
	Campaign configurations	56636570727487

Platform configurations	98
Sub-chart configuration in Helm charts	102

Chapter 1. Docker, Kubernetes, and Helm

In this release, we have implemented Cloud Native Unica using Docker, Kubernetes, and Helm.

The following topics provide an overview of the mentioned technologies:

- For an overview on Docker, see Docker overview (on page 1).
- For an overview on Kubernetes, see Kubernetes overview (on page 2).
- For an overview on Helm, see <u>Helm overview (on page 2)</u>.
- For an overview on Helm Chart, see Helm charts overview (on page 3).

Docker overview

Docker is an open source software that makes it easy to create, deploy, and manage virtualized applications using containers.

You can use containers to package applications with the necessary components to run the applications, like libraries and other dependencies. Because a container has all the components requires for its execution, it is not dependent on other containers and can run in an isolated manner.

The software that hosts the containers is called a Docker Engine. The Docker Engine creates containers on top of an operating system and automates application deployment on the container.

Docker-based architecture also offers standardization. With standardization of service infrastructure, every team member can work on a production parity environment.

For more information on Docker, its prerequisites, and the minimum system requirements, see https://docs.docker.com/.

Kubernetes overview

Kubernetes is an open source container orchestration system that provides a platform to automate deployment, scaling, and management of application containers across clusters of hosts.

If you have a cluster containing groups of hosts running Linux containers, you can use Kubernetes to manage the clusters efficiently. These clusters can span hosts across public, private, or hybrid clouds. This makes Kubernetes an ideal platform for hosting cloud-native applications that require rapid scaling.

For more information on Kubernetes, its prerequisites, and the minimum system requirements, see https://kubernetes.io/docs/home/.

Helm overview

Helm is a package manager for Kubernetes that can be used by developers and operators to easily package, configure, and deploy applications and services onto Kubernetes clusters.

Helm can:

- install and upgrade software
- automatically install software dependencies
- configure software deployments
- fetch software packages from repositories

Helm packages are called charts and they contain a few YAML files and templates that are rendered into the Kubernetes manifest files.

For more information on Helm, its prerequisites, and the minimum system requirements, see https://helm.sh/.

Helm charts overview

Helm Charts are packaging formats. A chart is a collection of files that describe a related set of Kubernetes resources.

You can use a single chart to deploy something simple, like a <u>memcached pod</u>, or something complex, like a full web application stack with HTTP servers, databases, caches, etc.

Charts are created as files laid out in a specific directory tree, and you can package charts into versioned archives for deployment.

Chapter 2. ELK Overview

The ELK Stack is a collection of three open-source products: Elasticsearch, Logstash, and Kibana.

The features of the ELK stack are as follows:

- Centralized logging and monitoring to identify problems with containers, or applications, hosted inside the pod
- Visualization tools to represent data using a graph or a chart
- Host ELK as a standalone system or a Docker container or a Kubernetes pod

Filebeat

Filebeat collects and ships log files, and is also the most commonly used beat. You can install Filebeat on almost any operating system, or also as a Docker container. It includes internal modules for platforms like Apache, MySQL, Docker, MariaDB, Kafka, and many more.

Filebeat is very efficient and it displays this in how it handles backpressure. If Logstash is busy, Filebeat slows down its read rate and picks up the beat once the slowdown is completed.

For Unica, Filebeat is deployed as a sidecar container inside Platform pod, and Platform and Filebeat, as a sidecar, runs as a container inside a pod. The Filebeat has a read-only access to persistent volume. It reads the logs from the logs folder, specified in configmap for all Unica applications, to keep sending logs to ELK.

metricbeat

Metricbeat collects and reports various system-level metrics for various systems and platforms. Metricbeat also supports internal modules for collecting statistics from specific platforms.

For Unica, metricbeat is deployed as a deamonset in kube-system namespace to collect metrics from the metric-server in OpenShift. In Kubernetes, it connects to both the Kubernetes API-server and the metric server.

Fluentd

It is a smart metrics and log shipper. For Unica, Fluentd is deployed as a deamonset in custom namespace to collect metrics from Kubernetes.

Advantages of using ELK

Logging, keeping historical logs, or monitoring the logs is a real challenge in containerized applications. If you destroy a container, everything is lost, including the logs. The advantages of using ELK are as follows:

- Maintains and keeps all the data, and makes this activity easy, even if the cluster, pod, or node is destroyed.
- Allows searching of all the logs in a single place.
- Helps find issues in multiple servers, or pods, by connecting logs during a specific time frame.

Chapter 3. Pre-installation configurations

Before installing or upgrading to Cloud Native Unica, you should complete some configurations.

The list of pre-installation or pre-upgrade configurations are as follows:

- Configure the resources for containers. For more information, see Cloud Native Unica Support Matrix Guide.
- Ensure that you have installed Docker Enterprise version 19.xx.x. For more information, see Docker documentation.
- Ensure that you have installed Kubernetes. For more information, see <u>Kubernetes</u> documentation.
- Verify if:
 - you have configured a Kubernetes cluster.
 - the Kubernetes environment has the appropriate image enforcement policy to allow access to the required repositories.
 - the database is setup. For more information, see <u>Database setup</u> (on page 8).
 - the application server is setup. For more information, see <u>Application server setup</u>
 (on page 7)
- Ensure that you have installed Helm. For more information, see Helm documentation.

Avoiding timeout issues

To avoid timeout issues, perform the following steps.

- 1. Access the path /home/unica/helm/<chart-name>/omnix-unica/.
- 2. Open the file values.yaml.
- 3. Add the following lines of code in the annotations section within ingress.

```
nginx.ingress.kubernetes.io/proxy-connect-timeout: "30"
```

```
nginx.ingress.kubernetes.io/proxy-read-timeout: "1800"
nginx.ingress.kubernetes.io/proxy-send-timeout: "1800"
nginx.ingress.kubernetes.io/proxy-body-size: 50m
ingress.kubernetes.io/proxy-body-size: 50m
```

4. Save the changes.

Application server setup

Cloud Native Unica supports Apache Tomcat®, Red Hat® JBoss® Enterprise Application Platform (EAP), and Oracle® WebLogic Server application servers.

You do not have to set up the Apache Tomcat application server as it is embedded in the Cloud Native Unica image.

Note:

For Apache Tomcat server, edit the <u>setenv.sh</u> file for the respective product instances script in the <u>bin</u> directory under your Tomcat instances directory to add the following Java options:

```
- Dfile.encoding=UTF-8
-Dclient.encoding.override=UTF-8
```

If you are deploying on a non-production setup, add

```
-DENABLE_NON_PROD_MODE=true
```

If you are deploying on a production setup, the Java option, -DENABLE_NON_PROD_MODE=true, must be removed or set to false.

After saving the changes, restart the Apache Tomcat server.

Database setup

You need to set up the database before you begin installation.

You can setup the database in one of the following ways.

- Use your database Docker image
- Connect to an external database system

In case of Managed Kubernetes Clusters on Cloud, the system data and the customer data must reside on Cloud.

If your database resides in an external system, the configuration of the following parameters, in Unica Helm chart, is mandatory.

- Database Users
- Tablespace Users
- Operating System Users

The database can reside within Kubernetes cluster. If the database resides within the Kubernetes cluster, use any available database image, and edit the Unica Helm chart. Ensure that user creation is complete before the Cloud Native solution starts.

For example, to use Tomcat, within the cluster or external DB, complete the following steps.

- 1. Download Cloud Native Unica images and Helm Chart.
- 2. Create Databases and Users and enter those details in the Unica Helm Chart.

If you set the Database as a sub-chart in Unica chart, you can completely automate data import using Shell scripts. For import, data should be available on the Database container mount point. You can also place the data after the container starts. Ensure that Database configuration and user creation activity is completed before running the Unica chart.

For auto-installation of database client on listener pod or container, complete the following steps:

Note: The commands and filenames are mentioned specific to Oracle database. Provide appropriate values based on the the database you use.

- 1. Place the Oracle client installer, named linuxamd64_12102_client.zip, inside the /tmp folder.
- 2. To extract the installer file, run the unzip command.

A new folder, named client is created in the location /tmp.

- 3. Run the following command:
 - cp /tmp/client/response/client_install.rsp /tmp/oracle_client.rsp
- 4. Access the oracle_client.rsp file and make the following changes in the file:

```
UNIX_GROUP_NAME=oinstall
INVENTORY_LOCATION=/home/oracle/oraInventory
ORACLE_HOME=/home/oracle/app/oracle/product/12.1.0/client_1
ORACLE_BASE=/home/oracle/app/oracle
oracle.install.client.installType=Administrator
```

5. Run the following commands:

```
cd /tmp

mkdir linuxamd64_12102_client

mv client linuxamd64_12102_client

tar -cvf Oracle_client.tar linuxamd64_12102_client oracle_client.rsp

gzip Oracle_client.tar

mv Oracle_client.tar.gz oracle_client.rsp /docker/unica
```

6. In the /docker/unica/ location, create a file named oracle.sh and add the following content in the file:

```
yum install -y libaio
/tmp/Oracle_client_install/linuxamd64_12102_client/client/runInstaller
```

```
-silent -ignoreSysPrereqs -responseFile /tmp/Oracle_client_install/
oracle_client.rsp
```

Listener Database client setup

To establish an ODBC connection to the database, the Campaign listener requires a database client.

If you do not have a database client, you must install it. For a seamless installation of the database client, perform the following steps:

- 1. Place the database client installer at the mount locaction (NFS).
- Configure the location of the database client installer in the campaignconfigMap.yaml file. For more information, see <u>Campaign configurations</u> (on page 56).

Setting up the Cloud Native environment

You must set up the Cloud Native environment before implementing Cloud Native Unica. The chart that you download uses Helm as a package manager for Kubernetes. The chart is a preconfigured application resource and it deploys Unica suite on a specified Kubernetes cluster. Extract the chart ZIP file to a location in the cloud VM, where you plan to deploy Unica. For reference purposes, this chart contains a placeholder for the database. Unica does not own the database and is not responsible for database management. If required, set a containerized database (the charts and subcharts folders are for reference) as a subchart to the Cloud Native Unica chart. You can use scripts to automate the restoration of database on a container.

The prerequisites for running a Helm chart are as follows:

Download the required Docker images from Flex Net Operations (FNO).

 To import the downloaded Docker images for all the products, run the following command:

```
docker load -i product_image_name.tar
```

 To verify if all products images are loaded and available for use, run the following command:

```
docker images
```

• To tag the images appropriately, run the following command:

```
docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]
```

• To push the images to the docker registry, run the following command:

```
docker push TARGET_IMAGE[:TAG]
```

- Open the values.yaml file, which is placed inside the Unica folder, and edit:
 - the Docker images name in the repository section
 - the tag numbers in the tag section

See the following code snippet for reference:

```
image:
    repository:
    init: TARGET_IMAGE
    platform: TARGET_IMAGE
    tag:
    init: TAG
    platform: TAG
```

- Configure the database in one of the following ways:
 - Database within Kubenetes cluster Set the database as a subchart to Unica helm chart. Unica will not own or manage the database chart.
 - Pointing to an external database Configure the database to reside on the same subnet as the worker nodes to ensure good performance.

To set up Cloud Native Unica environment, complete the following steps:

1. Update chart configurations:

a. Update or customize database and application server details in the configMap files for each products. For more information on configMap files, see Helm chart configuration (on page 15). An example for updating or customizing the campaign-configMap.yaml is as follows:

```
CAMPAIGN_DATABASE_HOST: "{{ .Release.Name }}-unica-suite-database"

CAMPAIGN_DATABASE_PORT: "1521"

CAMPAIGN_DATABASE_NAME: "xe"

CAMPAIGN_DATABASE_USERNAME: "campuser"

CAMPAIGN_DATABASE_PASSWORD: "unica"

CAMPAIGN_DS_INITIAL_SIZE: "1"

CAMPAIGN_DS_MIN_IDLE: "1"

CAMPAIGN_DS_MAX_IDLE: "15"

CAMPAIGN_DS_MAX_TOTAL: "80"

CAMPAIGN_DS_STATEMENT_CACHE_SIZE: "300"
```

2. Update persistence volume:

a. Based on the persistent volume of your choice, update the following files:

```
unica/extra-configs/local-pv.yamlunica/templates/pvc.yaml
```

3. Perform an upgrade:

- a. You can use one of the following methods to upgrade:
 - Upgrade from On-premises to Cloud Native (for example, Unica version 9.1.2 to Cloud Native version 12.1.0)
 - Upgrade from earlier Cloud Native version to a new version (for example, Cloud Native version 12.0 to Cloud Native version 12.1)
- b. Before the upgrade, ensure that you have backed up the file system and the Database.

- c. Place the file system on the mount point and configure the **BASE_FOLDER** parameter in the common-configMap.yaml file to point to the file system location.
- d. Also, update the database details in the common-configMap.yaml file. For example, refer the following code snippet:

```
DATABASE_EXPORT_DIR: "/DBBACKUP/"

BASE_FOLDER: "OLDINSTALL/IBMUnica_86"

SOURCE_SCHEMA: "camp86"

TARGET_SCHEMA: "camp86"

TARGET_SCHEMA_RT: "camp86"

TARGET_SCHEMA_RT: "camp86"

SOURCE_SCHEMA_PROD: "intpr86"

TARGET_SCHEMA_PROD: "intpr86"

SOURCE_SCHEMA_LRN: "intlr86"

TARGET_SCHEMA_LRN: "intlr86"

SOURCE_SCHEMA_RUN: "intrt86"
```

- e. In case of managed Kubernetes clusters, change the value of the **storageClassNames** parameter in the **values.yaml** file.
 - Note: Active MQ Image or Chart, provided by Unica, is for reference purposes only. Unica does not own or is not responsible for Active MQ Deployments.

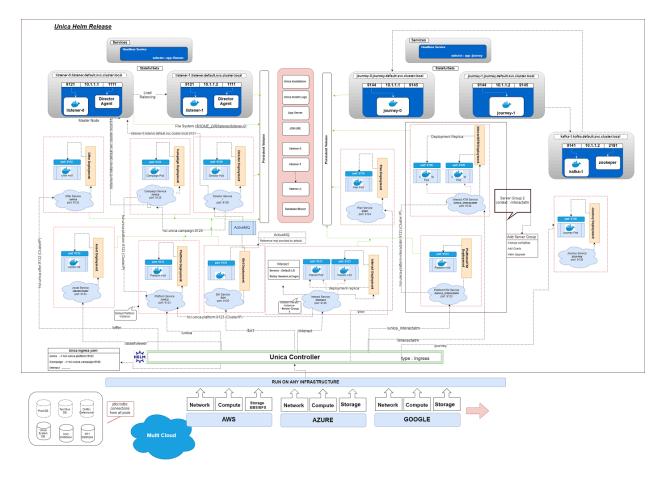
Cloud Native Unica setup on SSL

You can configure SSL on Cloud Native Unica setup at the ingress level.

A provision exists to create a secret with a CERT file. For additional details, see nginxingress documentation for TLS configuration.

Chapter 4. Cloud Native Unica Helm release architecture

The following is a diagrammatic representation of the Cloud Native Unica Helm release architecture:



Click here, to access HTML help, for a better resolution of the image.

Chapter 5. Helm chart configuration

Before you start the installation or upgrade of Cloud Native Unica, you should configure the appropriate configMap YAML files.

To access the <code>configMap YAML</code> files, navigate to <code>/unica/templates/</code> in the Unica charts folder. Open one of the following files and modify the paramaters in that file:

- common-configMap.yaml. For more information, see <u>Common configurations</u> (on page 52).
- campaign-configMap.yaml. For more information, see <u>Campaign configurations</u> (on page 56).
- offer-configMap.yaml. For more information, see <u>Centralized Offer Management</u> configurations (on page 63).
- collaborate-configMap.yaml. For more information, see <u>Collaborate</u> configurations (on page 65).
- assetpicker-configMap.yaml. For more information, see <u>Content Integration</u> configurations (on page 69).
- director-configMap.yaml. For more information, see <u>Director configurations</u> (on page 70).
- birt-configMap.yaml. For more information, see <u>Insights Reports configurations</u> (on page 72).
- interact-configMap.yaml. For more information, see Interact configurations (on page 74).
- journey-configMap.yaml. For more information, see <u>Journey configurations</u> (on page 87).
- journeyweb-configMap.yaml. For more information, see <u>Journey web</u> configurations (on page 89).
- kafka-configMap.yaml. For more information, see <u>Kafka configurations</u> (on page 94).
- plan-configMap.yaml. For more information, see <u>Plan configurations</u> (on page 95).

• platform-configMap.yaml. For more information, see <u>Platform configurations</u> (on page 98).

Chapter 6. Installation and verifying the installation

The following topics provide information related to installation and verification of installation.

- Installation (on page 17)
- Verifying the chart (on page 18)
- Log files (on page 18)

Installation

You can install Unica using Helm charts. Override the following Helm chart values using -- set name=value.

- Ensure that configMaps in the helm chart are correctly configured.
- Verify all the configurations and ensure that the mount location does not have any Unica-related installation files.
- 1. kubectl apply -f ./omnix-unica/extra-configs/local-pv.yaml
- 2. helm install --name nginx stable/nginx-ingress -f ./omnix-unica/extraconfigs/nginx-conf.yaml
- 3. helm install --name unica -f ./omnix-unica/values-local.yaml omnixunica --set service.hostname=kubernetes.nonprod.hclpnp.com --set service.applicationDomain='nonprod.hclpnp.com' --set ingress.enabled=true

Verifying the chart

Follow the instructions after the completion of Helm installation for chart verification. The chart generates an output for all the resources it creates.

1. To confirm if a chart has generated output for all the resources, run the following command:

helm ls

2. To view the installed helm release, run the following command:

helm status unica

3. To view the Unica Kubernetes pods, run the following command:

kubectl get pods

Log files

Confirm if the required containers are up and running. Upon confirmation, check the logs for all the running services.

Installation log files:

The installation log files are placed in the logs folder at the mount point. For example, \$HOME_DIR/logs.

Product log files:

Log files are persisted out of the containers at the mount location. The log files for the products are placed in their respective install location folders. For example, if the product is Campaign and the mount location is /docker/unica, the Campaign log files will be available within the /docker/unica/Campaign/logs/ location.

Campaign Log Files

To enable the ETL, Engage, and UBX logs within the Campaign logs folder, provide the absolute path in the \$CAMPAIGN_HOME/conf/campaign_log4j.properties file.

Example

```
log4j.appender.ETL.File=/docker/unica/Campaign/logs/ETL.log
log4j.appender.ENGAGE_ETL.File=/docker/unica/Campaign/logs/EngageETL.log
log4j.appender.UBX.File=/docker/unica/Campaign/logs/UBX.log
```

Chapter 7. Post installation configurations

The following topics contain details about post installation configurations related to the products of Unica.

- Configurations for Campaign (on page 20)
- Configurations for Director (on page 22)
- Configurations for Interact (on page 22)
- Configurations for Platform (on page 23)

Configurations for Campaign

To add user database in Campaign, complete the following steps:

- 1. Connect to the Listener pod.
- 2. Add the user database.
- 3. In the application, navigate to Campaign > Configuration.
- 4. Add an entry for Datasources.

Configuring multi-partitions for Campaign

For Unica Campaign, you can configure the application within the partitions where you have configured an instance of Campaign.

Application users, within each partition, can access the Campaign functions, data, and customer tables that are configured for Campaign in the same partition.

Multiple partitions are useful for setting up a strong security between groups of users, because each partition has its own set of Campaign system tables.

You must not create multiple partitions if groups of users have to share data with each other.

Each partition has its own set of configuration settings. You can customize Campaign for each group of users. However, all partitions share the same installation binaries.

With the same binaries for all partitions, you can minimize the installation and upgrade efforts for multiple partitions.

The utility to create multi-partition is available in the \$HOME_DIR/Platform/tools/bin location.

Provide values for the following paramters in the Campaign chart:

- **PARTITIONS** Name of the partition you want to configure. In case of multiple partitions specify partition name separated by a semi-colon. For example partition2; partition3.
- **SOURCE_PARTITION** The name of the source partition to be replicated.
- **DEST_PARTITION** The name of the destination partition to be created.
- **PARTITION_USER** Specifies the user name of the admin user for the replicated partition. The name must be unique within the instance of Unica Platform.
- **PARTITION_GROUP** Specifies the name of the Platform admin group that the utility creates. The name must be unique within the instance of Unica Platform.
- CAMPAIGN_PARTITION2_DATABASE_HOST Host system details of the system hosting the Campaign Partition2 database.
- CAMPAIGN_PARTITION2_DATABASE_PORT Port number of the Campaign Partition2 database.
- CAMPAIGN_PARTITION2_DATABASE_NAME Name of the Campaign Partition2 database.
- CAMPAIGN_PARTITION2_DATABASE_USERNAME Username to access the Campaign Partition2 database.
- CAMPAIGN_PARTITION2_DATABASE_PASSWORD Password to access the Campaign Partition2 database.
- CAMPAIGN_PARTITION2_DS_INITIAL_SIZE The initial size of the Campaign Partition2 datasource connection pool.
- **CAMPAIGN_PARTITION2_DS_MIN_IDLE** The minimum number of idle connections (not connected to a database) in the Campaign Partition2 datasource connection pool.

- CAMPAIGN_PARTITION2_DS_MAX_IDLE The maximum number of idle connections (not connected to a database) in the Campaign Partition2 datasource connection pool.
- CAMPAIGN_PARTITION2_DS_MAX_TOTAL The maximum number of connections that
 the Campaign Partition2 datasource can hold. If the number of connection requests
 exceed the configured value, the connection will be refused.
- CAMPAIGN_PARTITION2_DS_STATEMENT_CACHE_SIZE Maximum number of statements that can be cached in the Campaign Partition2 datasource. Statement caching improves performance by caching executable statements that are used repeatedly.
- CAMPAIGN_PARTITION2_JNDI_NAME JNDI name for Campaign Partition2.
- CAMPAIGN_PARTITION2_POOL_NAME Pool name for Campaign Partition2.

The syntax to generate a partition is:

```
./multiPartition.sh >> output.out
```

After running the utitilty, restart the Platform and Campaign pod. After restarting the pods, login with platform_admin.

You can login with **PARTITION_USER** and the partition name you specify is used as the password for the admin user

Configurations for Director

ActiveMQ image is for reference or for tests. Unica does not own ActiveMQ. You can plug in your own ActiveMQ image in the helm chart.

To configure Director, complete the following step:

Update the _DIR_HOME_ in the Campaign/bin/setenv.sh location with the actual path.

Configurations for Interact

For Gateway configurations to work, perform the following step.

- 1. Add the required JAR files and the configuration files to the mount location.
- 2. On JMX console, use the CentOS desktop and the VNC viewer to view the individual pod consoles. Enable port forwarding on different ports.

Configurations for Platform

For Director and Campaign History tab, you should configure the Platform settings.

To configure Platform settings, complete the following steps:

- 1. Log in to Unica Platform.
- 2. Select **Settings > Configuration**.
- 3. On the left pane, select Unica Platform > Security > API management > Unica Platform.
- 4. On the left pane, select **Authentication** and in the right pane click **Edit settings**. The value for the fields should be:

Field name	Value
API URI	/authentication/login
Block API access	Disabled
Secure API access over HTTPS	Enabled
Require authentication for API access	Disabled

5. On the left pane, select **User** and in the right pane click **Edit settings**. The value for the fields should be:

Field name	Value
API URI	/usr/partitions/*
Block API access	Disabled
Secure API access over HTTPS	Disabled

Field name	Value
Require authentication for API access	Enabled

6. On the left pane, select **Policy** and in the right pane click **Edit settings**. The value for the fields should be:

Field name	Value
API URI	/policy/partitions/*
Block API access	Disabled
Secure API access over HTTPS	Disabled
Require authentication for API access	Enabled

7. On the left pane, select **Configurations** and in the right pane click **Edit settings**. The value for the fields should be:

Field name	Value
API URI	/datasource/config
Block API access	Disabled
Secure API access over HTTPS	Disabled
Require authentication for API access	Enabled

8. On the left pane, select **Datasource** and in the right pane click **Edit settings**. The value for the fields should be:

Field name	Value
API URI	/datasource
Block API access	Disabled
Secure API access over HTTPS	Disabled
Require authentication for API access	Enabled

9. On the left pane, select **Login** and in the right pane click **Edit settings**. The value for the fields should be:

Field name	Value
API URI	/authentication/v1/
Block API access	Disabled
Secure API access over HTTPS	Disabled
Require authentication for API access	Disabled

10. On the left pane, select **Unica Campaign > Campaign REST API Filter** and in the right pane click **Edit settings**. The value for the fields should be:

Field name	Value
API URI	/rest/v1/*
Block API access	Disabled
Secure API access over HTTPS	Disabled
Require authentication for API access	Enabled

11. On the left pane, select **Unica Campaign > Campaign REST API V2 Filter** and in the right pane click **Edit settings**. The value for the fields should be:

Field name	Value
API URI	/rest/v2/*
Block API access	Disabled
Secure API access over HTTPS	Disabled
Require authentication for API access	Enabled

Chapter 8. Upgrade of on-premises applications to Cloud Native Unica

You can upgrade an on-premise version of Unica to the Cloud Native version. The Cloud Native version will be deployed on the application server.

Upgrade prerequisites

The prerequisites for the upgrade are as follows:

Basic prerequisites

- Take a backup of your existing database.
- Copy the file system of the previous version to the mount location.
- Provide appropriate values the database parameters of all Unica components.
- For Interact fast upgrade, the schema name in the target setup should be the same as the one in the base setup.
- Manually map the tables and restart the Campaign Pod.

SQL Server-specific prerequisites

If your database is SQL Server database, before running the upgrade chart, manually execute the following SQL files on the Platform database:

If the Base version is 9.1.x

```
    HOME_DIR/Platform/db/db/upgrade91to911/
ManagerSchema_DB_Type_911upg.sql HOME_DIR/Platform/db/upgrade912to10/ManagerSchema_SqlServer_10upg.sql;
    HOME_DIR/Platform/db/upgrade912to10/
SqlServer_QRTZ_Scheduler_10_upgrade_Script.sql;
```

```
HOME DIR/Platform/db/upgrade10001to10002/
    ManagerSchema_SqlServer_10002upg.sql;
   • HOME_DIR/Platform/db/upgrade10002to101/
    ManagerSchema_SqlServer_101upg.sql; HOME_DIR/Platform/db/
    upgrade101to11/ManagerSchema_SqlServer_11upg.sql;
   • HOME_DIR/Platform/db/upgrade1101to111/
    ManagerSchema_SqlServer_111upg.sql; HOME_DIR/Platform/db/
    upgrade111to11102/ManagerSchema_SqlServer_11102upg.sql;
   • HOME_DIR/Platform/db/upgrade11102to12/
    ManagerSchema_SqlServer_12upg.sql

    If the Base version is 9.1.2

   • HOME_DIR/Platform/db/upgrade912to10/
    ManagerSchema_SqlServer_10upg.sql;
    HOME DIR/Platform/db/upgrade912to10/
    SqlServer_QRTZ_Scheduler_10_upgrade_Script.sql;
   • HOME_DIR/Platform/db/upgrade10001to10002/
    ManagerSchema_SqlServer_10002upg.sql; HOME_DIR/Platform/db/
    upgrade10002to101/ManagerSchema_SqlServer_101upg.sql;
   • HOME_DIR/Platform/db/upgrade101to11/
    ManagerSchema_SqlServer_11upg.sql; HOME_DIR/Platform/db/
    upgrade1101to111/ManagerSchema_SqlServer_111upg.sql;
   • HOME_DIR/Platform/db/upgrade111to11102/
    ManagerSchema_SqlServer_11102upg.sql; HOME_DIR/Platform/db/
    upgrade11102to12/ManagerSchema_SqlServer_12upg.sql

    If the Base version is 10.0.0

   • HOME_DIR/Platform/db/upgrade10001to10002/
    ManagerSchema_SqlServer_10002upg.sql; HOME_DIR/Platform/db/
    upgrade10002to101/ManagerSchema_SqlServer_101upg.sql;
   • HOME_DIR/Platform/db/upgrade101to11/
    ManagerSchema_SqlServer_11upg.sql; HOME_DIR/Platform/db/
    upgrade1101to111/ManagerSchema_SqlServer_111upg.sql;
```

```
o HOME_DIR/Platform/db/upgrade111to11102/
ManagerSchema_SqlServer_11102upg.sql; HOME_DIR/Platform/db/
upgrade11102to12/ManagerSchema_SqlServer_12upg.sql
```

If the Base version is 10.1.0

• If the Base version is 11.0.0

```
o HOME_DIR/Platform/db/upgrade101to11/
ManagerSchema_SqlServer_11upg.sql; HOME_DIR/Platform/db/
upgrade1101to111/ManagerSchema_SqlServer_111upg.sql;
```

upgrade11102to12/ManagerSchema_SqlServer_12upg.sql

o HOME_DIR/Platform/db/upgrade111to11102/
ManagerSchema_SqlServer_11102upg.sql; HOME_DIR/Platform/db/
upgrade11102to12/ManagerSchema_SqlServer_12upg.sql

If the Base version is 11.0.0

HOME_DIR/Platform/db/upgrade1101to111/
 ManagerSchema_SqlServer_111upg.sql; HOME_DIR/Platform/db/upgrade111to11102/ManagerSchema_SqlServer_11102upg.sql;
 HOME_DIR/Platform/db/upgrade11102to12/
 ManagerSchema_SqlServer_12upg.sql

If the Base version is 11.1.0

o HOME_DIR/Platform/db/upgrade111to11102/
ManagerSchema_SqlServer_11102upg.sql; HOME_DIR/Platform/db/
upgrade11102to12/ManagerSchema_SqlServer_12upg.sql

If the Base version is 11.1.0

o HOME_DIR/Platform/db/upgrade111to11102/
ManagerSchema_SqlServer_11102upg.sql; HOME_DIR/Platform/db/
upgrade11102to12/ManagerSchema_SqlServer_12upg.sql

If the Base version is 12.0.0

common-configMap configurations

In the common-configMap.yaml file, provide values for the following fields:

Table 1. Configurable Parameters to perform an Upgrade

3		
Parameter Name	Example Value	
BASE_FOLDER	"OLDINSTALL/HCLUnica_86"	
FROM	"8.6.0"	
то	"12.0.0"	
SOURCE_SCHEMA	"CAMP86"	
TARGET_SCHEMA	"DBO"	
DB_DRIVER_CLASS	com.microsoft.sqlserver.jdbc.SQL	ServerDriver
AC_VERSION	"12.1.x"	
ACI_UNICODE	"No"	
CONFIGURE_ON_ERROR_PROMPT	"Yes"	
LOCALE	"en_US"	
ТҮРЕ	UPGRADE	
DATABASE_EXPORT_DIR	/DBBACKUP/	
ISEXTERNALDB	false	
DB_IMPORT_WAIT_TIME	1050	
DB_PRE_IMPORT_WAIT_TIME	1050	
IS_UNICODE	false	

Parameter Name	Example Value
UPGRADE_FROM_TO	11.1+To12.1
LISTENER_HOST_NAME	{{ .Release.Name }}-omnix-unica-listener
SOURCE_SCHEMA_RT	camp86
TARGET_SCHEMA_RT	camp86
DB_DRIVER_CLASS_RT	com.ibm.db2.jcc.DB2Driver
SOURCE_SCHEMA_PROD	intpr86
TARGET_SCHEMA_PROD	intpr86
DB_DRIVER_CLASS_PROD	com.ibm.db2.jcc.DB2Driver
SOURCE_SCHEMA_LRN	intlr86
TARGET_SCHEMA_LRN	intlr86
DB_DRIVER_CLASS_LRN	com.ibm.db2.jcc.DB2Driver
SOURCE_SCHEMA_RUN	intrt86
TARGET_SCHEMA_RUN	intrt86
DB_DRIVER_CLASS_RUN	com.ibm.db2.jcc.DB2Driver

JVM option configurations

Add the jvm option -dfast_upgrade_version=

-base_version>. For example:

JAVA_OPTIONS="\${JAVA_OPTIONS} -dfast_upgrade_version=8.6.x.

Performing the upgrade

The mount location should contain the old version of the Unica file system. Cloud Native containers will manage the database upgrade and the file system updates.

- To perform the upgrade, run the following command.
 helm install --name unica omnix-unica --set
 service.hostname=<kubernetes.nonprod.hclpnp.com --set
 service.applicationDomain='nonprod.hclpnp.com' --set ingress.enabled=true
- 2. Access the upgrade logs from the mount location.

Configuring Unica Campaign post upgrade

To configure Unica Campaign post upgrade, complete the following steps:

Upgrade the parameter **internalServerURL** to point to your Campaign pod.

For example, http://hcl-unica-campaign:9125/Campaign.

Configuring Unica Interact post upgrade

To configure Unica Interact post upgrade, complete the following steps:

- 1. Back up the current configurations.
- 2. Navigate to Affinium > Campaign > partitions > partition1 > Interact > serverGroups.
- 3. In Unica configuration, delete the old serverGroup and retain only the Interact serverGroup.
- 4. Define Interact as the serverGroup for the following configurations:
 - flowchart configuration within Affinium > Campaign > partitions > partition1 >
 Interact

- simulator configuration within Affinium > Campaign > partitions > partition1 >
 Interact
- 5. Update the Interact design schema by replacing the old servergroup name with a new name. Execute the following commands:

```
update uaci_deployment set servergroupname='interact';update uaci_ICTOSVRGROUP set servergroupname='interact';
```

• update uaci_OfferMappingSG set servergroupname='interact';

Configuring Unica Platform post upgrade

For a fast upgrade of Unica Platform, complete the following steps:

- 1. The Unica Platform application URL will point to the old base environment. Change the navigation URL using the SQL script from the Platform system database.
- 2. Manually change the URL of the start page, which appears when you log in to Unica Platform, from the USM_PERSONALIZATION table.
- 3. Copy the following properties files from the source environment to the destination environment. Ensure that all the URLs mentioned in the files are also updated to the destination environment.
 - Platform_Admin_URL.properties
 - Platform_Admin_View_Priv.properties
 - Platform_Admin_URL.properties
 - Platform_Admin_Scheduler_Scripts.properties
 - Platform_Admin_Scheduler_API.properties

Chapter 9. Scaling Unica containers

Scaling a deployment ensures creation and scheduling of new Pods. Scaling increases the number of Pods to the new required state. Kubernetes also supports autoscaling of Pods.

For Multicast, perform the configurations on Kubernetes host to support it. For example, weave supports multicast and can be configured for multicast support.

The following topics provide information on scaling the containers of Unica:

- For details related to scaling Listener containers, see <u>Scaling Listener containers</u> (on page 33).
- For details related to scaling Interact containers, see <u>Scaling Interact containers</u> (on page 36).

Scaling Listener containers

Listeners are defined as StatefulSets in Kubernetes. Each Pod in a StatefulSet derives its hostname from the name of the StatefulSet and the ordinal of the Pod.

The Pod domain is managed by the service and it takes the following form:

```
$(service name).$(namespace).svc.cluster.local.
```

For example, the listener pod entry is registered as follows:

```
listener-0.listener.default.svc.cluster.local
```

These can be configured in the Helm chart in the campaign-configMap.yaml file.

Like a Deployment, a StatefulSet manages the Pods that are based on identical container specifications. Unlike a Deployment, a StatefulSet maintains a sticky identity for each of their Pods.

The location of Campaign shared home is \$HOME_DIR/Campaign.

For the scaled instances of StatefulSet, <code>listener-0</code>, <code>listener-1</code>, <code>listener-2</code>,..listener-n, each instance has a file system mapped on the mount location. For example, <code>\$HOME_DIR/listener-0</code>.

Ordered scale up and scale down

Ordered and graceful deployment and scaling.
 If you want to scale up the Listener pod, run the following command:

```
kubectl scale StatefulSets listener --replicas=2
```

2. First instance gets deleted in the end.

If you want to scale down the Listener pod, run the following command:

```
kubectl scale StatefulSets listener --replicas=1
```

Listener-Optimize merge

- 1. Single scalable deployment in Kubernetes.
- 2. Configuration and license driven config.xml.
- 3. <u>Listener integration</u> (on page 35)

Cluster mode

1. To enable scaling, by default, cluster mode must be TRUE.

Also perform the following listener-related scaling activities:

- Load balancing (on page 35)
- Listener integration (on page 35)

Load balancing

For load balancing, there is a single listener that executes commands related to Campaign flowchart and Optimize sessions. In comparison to Campaign flowchart, an Optimize session requires a significantly better hardware configuration, which exceeds the minimum recommendation, for successful execution.

This newly introduced single listener helps the master listener to decide the node on which it should send the execution of the flowcharts or sessions, considering the <code>loadBalanceWeight</code>. We recommend that you avoid executing Optimize sessions on a node, configured to execute Campaign flowcharts. Similarly, we recommend that you avoid setting up a node with a significantly higher configuration of hardware for executing flowcharts. Using the new flag, the master listener can utilize the available resources in an appropriate way.

Choose an appropriate listenerType during installation based on the hardware, or configuration, or your requirements.

Listener integration

Prior to Unica 12.0 release, Campaign and Optimize were separate products. Users having both Campaign and Optimize had to run separate listeners. The Campaign listener unica_aclsnr to run flowcharts and Optimize listener unica_acolsnr to run the Optimize session.

Campaign-Optimize merged scenario

With text-based license for v12, the listener image expects a license file at mount point.

If both listener host name txt (listener-0.txt ...) and opt.instance file exist, it will create only the Optimize listener. If listener host name TXT contains the first listener, it creates the listener as LISTENER_TYPE 3, which means it is for both Campaign and Optimize, otherwise it creates the listener as LISTENER_TYPE 2 indicating that it is only for Optimize.

If the listener host name txt, <code>listener-0.txt</code> and so on, exists and the <code>opt.instance</code> file does not exist, it creates the listener as <code>LISTENER_TYPE 3</code>, which indicates that it is for both Campaign and Optimize.

Listener types

- CAMPAIGN_ONLY (TYPE 1) This listener can handle commands for Campaign or flowchart only.
- **OPTIMIZE_ONLY (TYPE 2)** This listener can handle commands for Optimize session only.
- ALL ((TYPE 3)- This listener can handle commands for Campaign or Flowchart or Optimize session.

The Type option is available in the following locations:

- Settings > Configuration > Campaign > unicaACListener
- Settings > Configuration > Campaign > unicaACOListener

Scaling Interact containers

Each existing Interact machine runs a Kubernetes Interact deployment. If you have set the **hostNetwork** to TRUE, the existing network, which already supports multicast, can be used as it is without changing any settings. You can also use the existing load balancers over the Kubernetes Interact deployments.

To scale Interact pods for multiple server groups, refactor the helm chart to add services and deployments per server group. Each Server Group should point to a different Platform Instance. For example, if there are three RT server groups, there will be three Platform instances (three services and three deployments for Platform and Interact).

The **CONTEXT_ROOTS** variable, in the interact_configMap.yaml file drives:

- the context roots for Interact and Platform.
- PLT and RT database details per server group.

If you want to scale pods for a server group, run the following command:

```
kubectl scale deployment hcl-unica-interact --replicas=2
```

If the Interact POD crashes, or if you manually delete the pod, manually delete an entry from the configuration using the following command:

```
./configTool.sh -d -p 'Affinium|Campaign|partitions|partition1|Interact|serverGroups|interactatm|instanceURLs|$1' -o "
```

In the earlier command \$1 refers to the Interact POD name that crashed or was manually deleted.

Monitoring the scaled instances

Note: Ensure that VNC viewer exists on the host machine to monitor instances.

You can perform JMX monitoring for each of the scaled instances using port forwarding.

For POD1, run the following command:

```
kubectl port-forward --address 0.0.0.0 pod/unica-omnix-unica-
interact-84d7b47f59-d2rsl 9998:9998 &
```

For POD2, run the following command:

```
kubectl port-forward --address 0.0.0.0 pod/unica-omnix-unica-
interact-84d7b47f59-d2rsl 9999:9998 &
```

Additionally, if your application server is WebLogic, the DB hostname should be a fully qualified domain name or else the Kubernetes service name will not work.

Chapter 10. Using Red Hat OpenShift

You can use OpenShift to develop and runcontainerized applications. OpenShift allows applications, and the data centers that support them, to expand from just a few machines and applications to thousands of machines that serve millions of clients.

For detailed information related to Red Hat OpenShift Container Platform, see <u>OpenShift</u> Container Platform documentation.

The benefits of using OpenShift Container Platform are as follows:

- Does not require separate charts as the OpenShift charts are customized, or updated, charts when compared to Kubernetes charts.
- Easy to manage and monitor using the OpenShift console.

To configure the changes required for Unica, complete the following steps:

- 1. Place the following items on a location that is accessible from the listener pod:
 - unixodba
 - •libltdl.so.7
 - •libltdl.so.7.30
 - mariadb driver (must be installed and then copied to the required location)

Update the same in campaign-configmap.yaml file:

```
export ODBCINI=<driver-path>/etc/odbc.ini
export ODBCINST=<driver-path>/etc/odbcinst.ini
export ODBCSYSINI=<driver-path>/odbc1/etc
```

- **Note:** < driver-path > is the path where you have copied the driver. For example, / docker/unica/odbc1.
- 2. In the configmap. yaml file, update the namespace for listener domain name.
- 3. Based on your setup, you can:

- update the PVC.yaml file before using it.
- avoid the PVC.yaml file.

Security Context Constraints for Unica on Red Hat OpenShift

For any Security Context Constraint (SCC), perform the following steps:

- 1. If AllowPrivilegedContainer is enabled (set to TRUE) or not enabled, set it to FALSE.
- 2. Do not assign root access to the users specified in the deployment.yaml file.
- 3. For pods that do not have a gid (group ID), perform the following configuration:

```
securityContext:
runAsUser: 1000610000
```

The configuration ensures that the start user of the pods is 1000610000. The 1000610000 user cannot switch to the root user or change the root user password.

4. For the Oracle client, in the listener pod, create a user for a valid group and perform the following configurations:

The configuration ensures that the Oracle user also cannot switch to the root user or change the root user password.

5. For the SCC (anyuid), configure the following values:

```
allowHostDirVolumePlugin: false
allowHostIPC: false
allowHostNetwork: false
allowHostPID: false
allowHostPorts: false
allowPrivilegeEscalation: true
allowPrivilegedContainer: false
allowedCapabilities: null
apiVersion: security.openshift.io/v1
defaultAddCapabilities: null
fsGroup:
 type: RunAsAny
groups:
- system:cluster-admins
kind: SecurityContextConstraints
metadata:
 annotations:
   kubernetes.io/description: anyuid provides all features of the
 restricted SCC
     but allows users to run with any UID and any GID.
   release.openshift.io/create-only: "true"
  creationTimestamp: "2020-08-24T17:55:03Z"
  generation: 6
 name: anyuid
 resourceVersion: "23505934"
  selfLink: /apis/security.openshift.io/v1/securitycontextconstraints/
anyuid
  uid: 43877aab-c522-4ca9-9575-e8b212749e29
priority: 10
readOnlyRootFilesystem: false
requiredDropCapabilities:
```

```
- MKNOD
runAsUser:
  type: RunAsAny
seLinuxContext:
  type: MustRunAs
supplementalGroups:
  type: RunAsAny
users:
- system:serviceaccount:unica:default
volumes:
- configMap
- downwardAPI
- emptyDir
- persistentVolumeClaim
- projected
- secret
```

- 6. For the listerner pod, remove all chmod or su.
- 7. In the listener rc.unicaac, remove the root user check and change it to oracle.
- 8. In the Journey configmap, update the namespace from default to unica.

Chapter 11. Deployment monitoring

The Kubernetes Dashboard is a web-based user interface to monitor deployments.

Use the Kubernetes Dashboard to:

- deploy containerized applications to a Kubernetes cluster
- · troubleshoot your containerized applications
- managing cluster resources

You can also the use Dashboard to get an overview of the applications running on your cluster, as well as for creating or modifying individual Kubernetes resources.

The Dashboard also provides information on the state of Kubernetes resources in your cluster and on any errors that may have occurred.

Figure 1. Kubernetes dashboard

Deploying the dashboard user interface

The Dashboard user interface is not deployed by default.

To deploy the Dashboard user interface, run the following command.

 $\label{lem:kubectlapply-f} $$ kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/$$ v2.0.0-beta4/aio/deploy/recommended.yaml$

Chapter 12. Product utilities

You can execute all the utilities of the Unica products in their assigned pods.

The following table lists the Unica products and their assigned pods for running the productspecific utilities.

Table 2. Unica products and their assigned pods for running the utilities

Unica Product Name	Pod Name	List of Utilities
Unica Campaign	Listener	For Campaign utilities, see Unica Campaign (on page 44).
Unica Platform	Platform	For Platform utilities, see <u>Unica Platform (on page</u> <u>45)</u> .
Unica Plan	Plan	For Plan utilities, see <u>Unica</u> <u>Plan (on page 45)</u> .

Unica Campaign

You can access all the utilities of Campaign from the location CAMPAIGN_HOME/bin.

Access the location and run the required utility. For more information on utilities, see Unica Campaign Administrator's Guide.

Following is the list of utilities available in Campaign:

- Campaign advanced search utility (advSrchUtil)
- Campaign advanced search agent (advSrchAgent)
- Campaign listener shutdown utility (syrstop)
- Campaign Server Manager (unica_svradm)
- Campaign session utility (unica_acsesutil)

- · Campaign cleanup utility
- Campaign report generation utility (unica_acgenrpt)

Unica Plan

You can access all the utilities of Plan from the location MarketingOperations/tools/bin. Access the location and run the required utility. For more information on the utilities, see Unica Plan Installation Guide.

Following is the list of utilities available in Plan:

- umodbsetup
- configTool

Unica Platform

You can access all the utilities of Platform from the location Platform/tools/bin.

Access the location and run the required utility. For more information on utilities, see Unica Platform Administrator's Guide.

Following is the list of utilities available in Platform:

- alertConfigTool
- configTool
- datafilteringScriptTool
- encryptPasswords
- encryptTomcatDBPasswords
- partitionTool
- populated
- restoreAccess

Chapter 13. FAQs and troubleshooting

This section covers the frequently asked questions and troubleshooting issues.

To view the list of FAQs, see <u>Frequently Asked Questions</u> (on page 46)

For information related to Troubleshooting, see Troubleshooting Issues (on page 49)

Frequently Asked Questions

This topic contains the list of FAQs related to Cloud Native Unica release.

The list of FAQs are as follows:

- Question 1 (on page 46)
- Question 2 (on page 46)
- Question 3 (on page 47)
- Question 4 (on page 47)
- Question 5 (on page 48)
- Question 6 (on page 48)

Question 1

How do I configure Campaign Docker image to support non-ASCII data?

To configure non-ASCII data support for the Campaign Docker image, execute the same steps used for configuring non-ASCII data support on on-premises Campaign. For more details, see the topic **Non-ASCII data in Campaign** in the Unica Campaign Administrator's Guide.

Question 2

How to install products on locations other than default location mentioned in the common-configMap.yaml file?

To install products on location other than the default location configured in the common-configMap.yaml file, complete the following steps.

- 1. Mount the directory.
- 2. Open the common-configMap.yaml file and update the default path to the required path.
- 3. Ensure that the JDBCDrivers folder exists in the provided path.

Question 3

Why has Cloud Native Unica installed JRE9 and JDK8 on my system?

Cloud Native Unica is bundled with JRE9 and JRE8. In the common-configMap.yaml file:

- Provide the path of JRE9 for the parameter **DOCKER_JAVA_HOME**. Cloud Native Unica uses JRE9 for installation tasks.
- Provide the path of JDK8 for the parameter **JAVA_HOME**. The products of Unica uses JDK8.

Question 4

Should the passwords in the jdbc.properties file be encrypted?

Yes. The passwords in the jdbc.properties file should be encrypted. Configure the passwords using the helm commands similar to configuring the host name. You do not have to store the passwords anywhere for reuse. Once you configure the passwords, it will be set in the application.

For Cloud Native Unica, the jdbc.properties file is available in the following locations:

- /Interact/PatternStateETL/bin/jdbc.properties
- /Interact/tools/bin/jdbc.properties
- /ContactOptimization/install/jdbc.properties
- /Platform/tools/bin/jdbc.properties
- /install/jdbc.properties

- /Campaign/bin/jdbc.properties
- /Campaign/deliver/conf/jdbc.properties
- /Campaign/install/jdbc.properties

Question 5

List the default JDBC drivers provided with the Listener container.

On the Listener container, the JDBC drivers exist in the following path: Docker_Home/
JdbcDrivers/. The list of default JDBC drivers available with the Listener container are as follows:

```
db2jcc4.jarmariadb-java-client-2.4.1.jarojdbc8_docker.jar
```

Question 6

What should I do to make /ACOOptAdmin.sh work?

For /ACOOptAdmin.sh to work, update the following parameters in the / ACOOptAdmin.sh file:

- JAVA_HOME
- OPTIMIZE_HOME
- JDBCDRIVER_CLASSPATH

Use the -async option while running AcooptAdmin utility on Cloud Native environments.

Using the -async utility triggers the desired operation on an Optimize session in the background before exiting.

```
Example: ./ACOOptAdmin.sh -u "user_name" -p "password" -sn "OptimizeSessionName" -async
```

Note: Not using <code>-async</code> may trigger an Optimize session run, but the polling, related to the session run progress, will fail.

Troubleshooting Issues

This topic contains the list of Troubleshooting issues related to Cloud Native Unica release.

The list of issues are as follows:

- Question 1 (on page 49)
- Question 2 (on page 49)
- Question 3 (on page 49)

Question 1

Stopping and Restarting an Application Server

Sometimes, you might have to stop and restart the application server. For example, if you have modified some settings and these modified settings require restarting the application server.

Question 2

Cannot select supported locales for Plan.

When installing Plan using Cloud Native environment, you cannot select specific supported locales from the available list of supported locales. The system will automatically accept all available locales as the supported locales.

Question 3

ActiveMQ URL does not work.

The ActiveMQ URL http://unica-omnix-unica-activemq:8161/admin/queues.jsp, which provides information about the flowchartInfo-campaign events count, will not work. This is a Known Issue and will be fixed in the next release.

Chapter 14. Uninstalling the chart

1. To uninstall or delete the my-release deployment, run the following command:

```
helm delete --purge <releasename>
```

- 2. Delete the persistent volumes.
- 3. Delete the file systems.

If required, clean the persisted data of the database.

Chapter 15. Appendix: Description of Helm chart parameters

The following topics contain description of the parameters present in the configMap YAML files:

Common configurations

To configure the common configurations, make the necessary modifications to the common-configMap.yaml file.

To access the common-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 3. Data Parameters

Parameter name	Parameter description
WAIT_TIME	Idle wait time in minutes.
VERSION	Version number of Unica.
HOME_DIR	Home directory of Cloud Native Unica.
JAVA_HOME	The location of Java Development Kit on the system.
CERTIFICATE_IMPORT_DIR	The location of the Unica certificates.
TYPE	Specify if it is a new installation or an upgrade. Valid values are INSTALL or UPGRADE.
APPLICATION_DOMAIN	The application domain.
HOST	Host ID of the Docker host.
HOST_NAME	Host name of the Docker host.

Parameter name	Parameter description
DEFAULT_LOCALE	The default locale to be used.
DOCKER_JAVA_HOME	The path of the Docker Java Home.
MODE	Specify the products that you will install on the Cloud Native Unica environment. The abbreviated values for each product are as follows: • Platform – PLT • Campaign – CMP • Optimize – OPT • Director – DIR • Plan – PLN • Interact – INT • Centralized Offer Management - OFFER • Insights Reports - BIRT If you want to install all products you should provide the value as follows: PLT_CMP_INT_PLN_OPT_DIR If your database is MariaDB, Director will not work on MariaDB. In this case, you must provide the following value: PLT_CMP_INT_PLN_OPT
SERVER_TYPE	The application server installed.
IS_UNICODE	Set TRUE if Unica is installed to support Unicode. Set FALSE if Unica is installed without support for Unicode

Parameter name	Parameter description
JRE_HOME	The path of the Docker Java Runtime Environment.
SUPPORTED LOCALES	The supported locales. Valid values are:
	 en_US zh_TW fr_FR de_DE ja_JP ko_KR pt_BR es_ES zh_CN it_IT
UPGRADE_FROM_TO	11.1+To12.1
AC_VERSION	"12.1.x"
ACI_UNICODE	"No"
CONFIGURE_ON_ERROR_PROMPT	"Yes"

Table 4. Miscellaneous Parameters

Parameter name	Parameter description	
SOURCE_SCHEMA	"CAMP86"	
TARGET_SCHEMA	"DBO"	
DB_DRIVER_CLASS	com.microsoft.sqlserver.jdbc.SQLServerD	river
DB_TYPE	The name of the database used in the system. For example, Oracle.	

Parameter name	Parameter description
DB_TYPE_UTILS	The name of the database utilities used in the system. For example, Oracle.
DB_DRIVER_CLASS	The class name of the database drivers.
DIALECT	The Hibernate dialect. Each database has a different dialect. For example, the Oracle database dialect is org.hibernate.dialect.Oracle10gDialect.
DB_DRIVER_JAR	The location of the database driver JAR file.
REPLACE_CONNECTION_URL_PREFIX	The prefix used when forming a URL to the database. Each database has a different prefix. For example, the Oracle database prefix is jdbc:oracle:thin.
JDBC_DRIVER_JAR_LOCATION	The location of the JDBC driver JAR file.
TABLE_SPACE	The table space name for the database.
DB_ROOT_USER	The database root username.
DB_ROOT_PASSWORD	The database root password.
DB_HOST_NAME	The host name of the database system.
DB_PORT	The port number of the database system.
DB2INST1_PASSWORD	The password for the DB2 instance.
LICENSE	ACCEPT if you accept the license or DECLINE if you do not accept the license.
DB_PLAT	The database name for Platform.
DB_PLAN_HOST	The host details of the database in the Plan system.

Parameter name	Parameter description
DB_PLAN_HOST_NAME	The database host name of the Plan system.
DB_PLAN_PORT	The database port number of the Plan system.
DB_PLAN	The database name for Plan.
DB_DRIVER	The database driver file name.
PROTOCOL	The protocol used. For example, HTTP or HTTPS.
MDB_ENCODING	The encoding format used for MariaDB.
MDB_COLLATION	Valid values are utf8_general_ci and utf8_unicode_ci.
MAX_CONNECTIONS	The maximum concurrent connections supported.

Campaign configurations

To configure Campaign for Cloud Native Unica, make the necessary modifications to the campaign-configMap.yaml file.

To access the campaign-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 5. Common Campaign parameters

Parameter name	Parameter description
CAMPAIGN_JNDI_NAME	JNDI name for Campaign.
CAMPAIGN_POOL_NAME	Pool name for Campaign.

Parameter name	Parameter description
PRODUCT_OPTS_CAMPAIGN	Product specific options for Campaign.
CAMPAIGN_PRODUCT_NAME	The name assigned for Campaign.
CAMPAIGN_WAR_NAME	The name of the WAR file.
CAMPAIGN_APPLICATION_NAME	The name of the main application. For example, Unica.
CAMPAIGN_DOMAIN_USERNAME	The domain username for Campaign.
CAMPAIGN_DOMAIN_PASSWORD	The domain password for Campaign.
USER_DB2_HOST_NAME	The host name of the DB2 user.
CAMP_MAX_HEADER_SIZE	The maximum size allowed for the header. For example, 8192.

Table 6. Database-related parameters for Campaign

Parameter name	Parameter description
CAMPAIGN_DATABASE_HOST	Host system details of the system hosting the Campaign database.
CAMPAIGN_DATABASE_PORT	Port number of the Campaign database.
CAMPAIGN_DATABASE_NAME	Name of the Campaign database.
CAMPAIGN_DATABASE_USERNAME	Username to access the Campaign database.
CAMPAIGN_DATABASE_PASSWORD	Password to access the Campaign database.
DB2_CLIENT_INSTALL_COMMAND	Command to install the DB2 client on listener pod.
DB2_CLIENT_INSTALL_COMMAND_SCRIPT	Placeholder script for DB2 client installation.

Parameter name	Parameter description
DB2_SETUP_FILE	Path of the tar/gz file of client
DB2_RESPONSE_FILE	Path of response file to install client.
LD_LIB_PATH	Path to the required shared libraries in the environment configuration script, setenv.sh, for Campaign.
SETENV_COMMAND1	Setting the variables for setenv.sh in the listener you can provide the command.
SETENV_COMMAND2	Setting the variables for setenv.sh in the listener you can provide the command.
SETENV_COMMAND3	Setting the variables for setenv.sh in the listener you can provide the command.
CAMPAIGN_DS_INITIAL_SIZE	The initial size of the Campaign datasource connection pool.
CAMPAIGN_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Campaign datasource connection pool.
CAMPAIGN_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Campaign datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
CAMPAIGN_DS_MAX_TOTAL	The maximum number of connections that the Campaign datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.

Parameter name	Parameter description
CAMPAIGN_DS_STATEMENT_CACHE_SIZE	Maximum number of statements that can be cached in the Campaign datasource. Statement caching improves performance by caching executable statements that are used repeatedly.
MARIADB_CLIENT_INSTALL_COMMAND	Command to install the MariaDB client on the listener pod.
MARIADB_CLIENT_INSTALL_SCRIPT	Path of the test scripts to install client on listener pod. You can write the set of command in this file to install the client and it is executed on the listener pod.
SQLSERVER_CLIENT_INSTALL_SCRIPT	The path that contains the sqlserver.sh file.
USER_DB2_PORT	The port number to access the DB2 database.
USER_DB2_DB_NAME	The name of the DB2 database user.
USER_DB2_DB_USER	The username of the DB2 database user.
USER_DB2_DB_USER_PASSWORD	The password for the DB2 database user.
ASM_User_For_DB2_Credentials	The asm_admin credentials for DB2 datasource.
ASM_User_NZ_Data_Source_Name	The asm_admin user configured for the NZ datasource.
ASM_User_For_SQLSERVER_Credentials	The asm_admin credentials for SQL Server datasource.
ASM_User_SQLSERVER_Data_Source_Name	The asm_admin user configured for the SQL Server datasource.

Parameter name	Parameter description
ASM_User_DB2_Data_Source_Name	The asm_admin user configured for the DB2 datasource.
ASM_User_ORA_Data_Source_Name	The asm_admin user configured for the Oracle datasource.
ASM_User_For_ORA_Credentials	The asm_admin credentials for the Oracle datasource.
USER_ORA_DB_USERNAME	The username of the Oracle database user.
USER_ORA_DB_USER_PASSWORD	The password of the Oracle database user.
USER_ORA_PORT	The port number of the of the configured database user.
USER_ORA_SID	The SID details of the Oracle user.
ASM_User_NZ_Data_Source_Name	The asm_admin user configured for the NZ datasource.
ASM_User_For_NZ_Credentials	The asm_admin credentials for the NZ datasource.
USER_NZ_DB_USERNAME	The username of the NZ database user.
USER_NZ_DB_USER_PASSWORD	The password for the NZ database user.
USER_NZ_HOST_NAME	The host name of the NZ database user.
USER_NZ_PORT	The port number to access the NZ database.
USER_NZ_DB_NAME	The database name of the NZ database user.
USER_MARIA_HOST_NAME	The host name of the MariaDB database user.

Parameter name	Parameter description
USER_SQLSERVER_DB_NAME	The database name of the SQL Server database user.
USER_SQLSERVER_HOST_NAME	The host name of the SQL Server database user.
USER_SQLSERVER_PORT	The port number to access the SQL Server database.
USER_SQLSERVER_NAME	The host name of the SQL Server database user.
USER_SQLSERVER_USER	The username of the SQL Server database user.
CAMPAIGN_DSN_NAME	The dbanme value of the respective database.
ORACLE_ODBC_DRIVER	The path or the location of the Oracle ODBC driver on your system.
DB_TEMPLATE	The name of the database template used. This is used for configuring ODBC connection in Oracle.

Table 7. Application Server-related parameters for Campaign

Parameter name	Parameter description
CAMPAIGN_URL	The URL to access Campaign.
CAMP_HOST_NAME	The system host name of Campaign.
CAMP_MANAGEMENT_PORT	The management port number for the Campaign system.
CAMP_MANAGEMENT_HTTPS_PORT	The management HTTPS port number for the Campaign system.

Parameter name	Parameter description
CAMP_AJP_PORT	The AJP port number for the Campaign system.
CAMP_HTTP_PORT	The HTTP port number for the Campaign system.
CAMP_HTTPS_PORT	The HTTPS port number for the Campaign system.
CAMP_RECOVERY_ENV_PORT	The recovery environment port number of the Campaign system.
CAMP_STATUS_MANAGER_PORT	The status manager port number of the Campaign system.
CAMP_MIN_HEAP	The maximum heap size allocated for Campaign.
CAMP_MAX_HEAP	The maximum heap size allocated for Campaign.

Table 8. Listener-related parameters for Campaign

Parameter name	Parameter description
LISTENER_HOST_NAME	The hostname of the Listener.
LISTENER_PORT	The port number of the Listener.
LISTENER_TYPE	Specify the type of Listener.
CLUSTER_DOMAIN	Define the cluster domain. For example, listener.default.svc.cluster.local
SSL_FOR_PORT2	SSL server port 2.
SERVER_PORT2	Server port 2.
MASTER_LISTENER_PRIORITY	Define the Listener priority.

Parameter name	Parameter description
LOAD_BALANCE_WEIGHT	The load balance weight of the Listener.
CAMP_HOSTNAME	The host name of the Campaign system.
CAMPPORT	The deployment port for Campaign.
CLUSTER_DEPLOYMENT	Set TRUE if clustered deployment is supported or FALSE if clustered deployment is not supported.
ORACLE_CLIENT_SETUP_FILE_EXTRACT_CO	MineAND mand to extract the Oracle tar/gz client setup file
DB2_CLIENT_SETUP_FILE_EXTRACT_COMM	AND command to extract the DB2 tar/gz client setup file

Centralized Offer Management configurations

To configure Centralized Offer Management for Cloud Native Unica, make the necessary modifications to the offer-configMap.yaml file.

To access the offer-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 9. Application server-related parameters of Centralized Offer Management

Parameter name	Parameter definition
COM_HOST_NAME	The system host name of Centralized Offer Management.
COM_MANAGEMENT_PORT	The management port number for the Centralized Offer Management system.
COM_MANAGEMENT_HTTPS_PORT	The management HTTPS port number for the Centralized Offer Management system.

Parameter name	Parameter definition
COM_AJP_PORT	The AJP port number for the Centralized Offer Management system.
COM_HTTP_PORT	The HTTP port number for the Centralized Offer Management system.
COM_HTTPS_PORT	The HTTPS port number for the Centralized Offer Management system.
COM_RECOVERY_ENV_PORT	The recovery environment port number of the Centralized Offer Management system.
COM_STATUS_MANAGER_PORT	The status manager port number of the Centralized Offer Management system.
COM_MIN_HEAP	The minimum heap size allocated for Centralized Offer Management.
COM_MAX_HEAP	The maximum heap size allocated for Centralized Offer Management.

Table 10. Common parameters of Centralized Offer Management

Parameter name	Parameter description
PRODUCT_OPTS_COM	Product specific options for Centralized Offer Management.
COM_PRODUCT_NAME	The name assigned for Centralized Offer Management.
CENTRALIZED_OFFERS_WAR_NAME	The name of the WAR file.
COM_APPLICATION_NAME	The name of the main application. For example, Unica.
COM_DOMAIN_USERNAME	The domain username for Centralized Offer Management.

Parameter name	Parameter description
COM_DOMAIN_PASSWORD	The domain password for Centralized Offer Management.

Collaborate configurations

To configure the Collaborate for Cloud Native Unica, make the necessary modifications to the collaborate-configMap.yaml file.

To access the collaborate-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 11. Common parameters of Collaborate configuration

Parameter name	Parameter description
COLLABORATE_HOST	The name of the Collaborate host system.
COLLABORATE_PORT	The port number of the Collaborate host system.
COLLABORATE_JNDI_NAME	JNDI name for Collaborate.
COLLABORATE_POOL_NAME	Pool name for Collaborate.
COLLABORATE_USER_JNDI_NAME	JNDI name for the Collaborate user.
COLLABORATE_USER_POOL_NAME	Pool name for the Collaborate user.
PRODUCT_OPTS_COLLABORATE	Product-specific options for Collaborate.
COLLABORATE_PRODUCT_NAME	The name assigned for Collaborate.
COLLABORATE_WAR_NAME	The name of the WAR file.
COLLABORATE_APPLICATION_NAME	The name of the main application. For example, Unica.

Parameter name	Parameter description
COLLABORATE_DOMAIN_USERNAME	The domain username for Collaborate.
COLLABORATE_DOMAIN_PASSWORD	The domain password for Collaborate.
COLLABORATE_HOME	The home directory for the Collaborate system.

Table 12. Database parameters of Collaborate configuration

Parameter name	Parameter description
COLLABORATE_DATABASE_HOST	Host system details of the system hosting the Collaborate database.
COLLABORATE_DATABASE_PORT	Port number of the Collaborate database.
COLLABORATE_DATABASE_USERNAME	Username to access the Collaborate database.
COLLABORATE_DATABASE_PASSWORD	Password to access the Collaborate database.
COLLABORATE_DATABASE_NAME	Name of the Collaborate database.
COLLABORATE_USER_DATABASE_HOST	Host system details of the system hosting the Collaborate database user.
COLLABORATE_USER_DATABASE_PORT	Port number of the Collaborate database user.
COLLABORATE_USER_DATABASE_USERNAM	IE sername to access the Collaborate database user.
COLLABORATE_USER_DATABASE_PASSWOI	RD assword to access the Collaborate database user.
COLLABORATE_USER_DATABASE_NAME	Name of the Collaborate database user.

Parameter name	Parameter description
COLLABORATE_DS_INITIAL_SIZE	The initial size of the Collaborate datasource connection pool.
COLLABORATE_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Collaborate datasource connection pool.
COLLABORATE_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Collaborate datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
COLLABORATE_DS_MAX_TOTAL	The maximum number of connections that the Collaborate datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
COLLABORATE_DS_STATEMENT_CACHE_SI	be cached in the Collaborate datasource. Statement caching improves performance by caching executable statements that are used repeatedly.
COLLABORATE_USER_DS_INITIAL_SIZE	The initial size of the Collaborate user datasource connection pool.
COLLABORATE_USER_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Collaborate user datasource connection pool.

Parameter name	Parameter description
COLLABORATE_USER_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Collaborate user datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
COLLABORATE_USER_DS_MAX_TOTAL	The maximum number of connections that the Collaborate user datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
COLLABORATE_USER_DS_STATEMENT_CAC	Can be cached in the Collaborate user datasource. Statement caching improves performance by caching executable statements that are used repeatedly.

Table 13. Application server parameters of Collaborate configuration

Parameter name	Parameter description
COLLABORATE_URL	The URL to access Collaborate.
COLLABORATE_HOST_NAME	The system host name of Collaborate.
COLLABORATE_MANAGEMENT_PORT	The management port number for the Collaborate system.
COLLABORATE_MANAGEMENT_HTTPS_POI	RThe management HTTPS port number for the Collaborate system.
COLLABORATE_AJP_PORT	The AJP port number for the Collaborate system.

Parameter name	Parameter description
COLLABORATE_HTTP_PORT	The HTTP port number for the Collaborate system.
COLLABORATE_HTTPS_PORT	The HTTPS port number for the Collaborate system.
COLLABORATE_RECOVERY_ENV_PORT	The recovery environment port number of the Collaborate system.
COLLABORATE_STATUS_MANAGER_PORT	The status manager port number of the Collaborate system.
COLLABORATE_MIN_HEAP	The maximum heap size allocated for Collaborate.
COLLABORATE_MAX_HEAP	The maximum heap size allocated for Collaborate.

Content Integration configurations

To configure Content Integration for Cloud Native Unica, make the necessary modifications to the assetpicker-configMap.yaml file.

To access the assetpicker-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 14. Application server-related parameters of Content Integration

Parameter name	Parameter description
ASSET_HOST_NAME	The system host name of Content Integration.
ASSET_MANAGEMENT_PORT	The management port number for the Content Integration system.

Parameter name	Parameter description
ASSET_MANAGEMENT_HTTPS_PORT	The management HTTPS port number for the Content Integration system.
ASSET_AJP_PORT	The AJP port number for the Content Integration system.
ASSET_HTTP_PORT	The HTTP port number for the Content Integration system.
ASSET_HTTPS_PORT	The HTTPS port number for the Content Integration system.
ASSET_RECOVERY_ENV_PORT	The recovery environment port number of the Content Integration system.
ASSET_STATUS_MANAGER_PORT	The status manager port number of the Content Integration system.
PRODUCT_OPTS_ASSET	Product specific options for Content Integration.

Director configurations

To configure Director for Cloud Native Unica, make the necessary modifications to the director-configMap.yaml file.

To access the director-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 15. Common parameters of Director

Parameter name	Parameter description
activemq_enableEvents	Valid values are Yes or No.

Parameter name	Parameter description
activemq_url	Active MQ URL. For example, tcp://unica-omnix-unica-activemq:61616.
Data_Source_For_ActiveMQ_message_broke	rDatedsoutials for Activemo. For example, Activemo_cred_ds.
data_sources_for_activemq	Platform username.
activemq_queueName	Flowchart information. For example, campaign.

Table 16. Configuration parameters of Director

Parameter name	Parameter description
director_http_port	Director server port. The default port is 9128.
director_file_down	The download path used to store the downloaded log files from the Campaign server. For example, /docker/unica/Director/Server/Downloads.
director_show_sql	Valid values are TRUE or FALSE.
director_accesstoken_validityseconds	Director application session timed out token. For example, 10800 seconds.
director_listener_profile_data_days	Campaign listener CPU and Memory consumption data retention to 7 Days.

Table 17. Database-related parameters of Director

Parameter name	Parameter description
director_db_name	Director DB name.
director_datasource_username	Director database name or username.

Parameter name	Parameter description
director_datasource_password	Director database password.
director_db_host_ip	Director database machine host IP address.
director_host_name	Director database machine host name.
director_db_port	Director database machine port number.
director_datasource_driverClassName	Database driver class name.
director_jpa_hibernate	Database driver dialect name.
director_ddl_auto	Director database mode like create, update, or validate.
director_db_url	Director database URL.

Insights Reports configurations

To configure Insights Reports for Cloud Native Unica, make the necessary modifications to the birt-configMap.yaml file.

To access the birt-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Update the following configurations:

- configurations at Affinium | Plan | umoConfiguration | reports.
- reportsAnalysisSectionHome Plan/Affinium Plan
- reportsAnalysisTabHome Plan/Affinium Plan Object Specific Reports

After updating the configurations, restart the pods for Plan and Insights Reports.

Table 18. Common Insights Reports parameters

Parameter name	Parameter description
INSIGHTS_PRODUCT_NAME	The name assigned for Insights Reports.
INSIGHTS_WAR_NAME	The name of the WAR file.
INSIGHTS_APPLICATION_NAME	The name of the main application. For example, Unica.
INSIGHTS_DOMAIN_USERNAME	The domain username for Insights Reports.
INSIGHTS_DOMAIN_PASSWORD	The domain password for Insights Reports.
PRODUCT_OPTS_INSIGHTS	Product specific options for Insights Reports.

Table 19. Application server-related Insights Reports parameters

Parameter name	Parameter description
INSIGHTS_HOST_NAME	The system host name of Insights Reports.
INSIGHTS_MANAGEMENT_PORT	The management port number for the Insights Reports system.
INSIGHTS_MANAGEMENT_HTTPS_PORT	The management HTTPS port number for the Insights Reports system.
INSIGHTS_AJP_PORT	The AJP port number for the Insights Reports system.
INSIGHTS_HTTP_PORT	The HTTP port number for the Insights Reports system.
INSIGHTS_HTTPS_PORT	The HTTPS port number for the Insights Reports system.
INSIGHTS_RECOVERY_ENV_PORT	The recovery environment port number of the Insights Reports system.

Parameter name	Parameter description
INSIGHTS_STATUS_MANAGER_PORT	The status manager port number of the Insights Reports system.
INSIGHTS_MIN_HEAP	The minimum heap size allocated for Insights Reports.
INSIGHTS_MAX_HEAP	The maximum heap size allocated for Insights Reports.

Interact configurations

To configure Interact for Cloud Native Unica, make the necessary modifications to the interact-configMap.yaml file.

To access the interact-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 20. Common parameters for Interact

Parameter name	Parameter description
CONTEXT_ROOTS	To enable multiple server groups in
	Interact. Ensure that the context root
	and deployment name are in sync. If
	you change the deployment name,
	remember to change the context root
	as well. For example, if server groups
	are named atm, callcenter, and web,
	define the deployment and services
	with similar names like interactatm,
	interactcallcenter, and interactweb
	and ensure that the CONTEXT_ROOT

Parameter name	Parameter description
	parameter contains the following values:
	INTERACTATM; INTERACTCALLCENTER; INTERACTWE
INTERACT_PROD_JNDI_NAME	JNDI name for Interact production.
INTERACT_PROD_POOL_NAME	Pool name for Interact production.
INTERACT_TEST_JNDI_NAME	JNDI name for Interact test.
INTERACT_TEST_POOL_NAME	Pool name for Interact test.
INTERACT_LEARNING_JNDI_NAME	JNDI name for Interact learning.
INTERACT_LEARNING_POOL_NAME	Pool name for Interact learning.
INTERACT_CHRH_JNDI_NAME	JNDI name for Interact CHRH.
INTERACT_CHRH_POOL_NAME	Pool name for Interact CHRH.
INTERACT05_JNDI_NAME	JNDI name for Interact05.
INTERACT05_POOL_NAME	Pool name for Interact05.
INTERACTATM_JNDI_NAME	JNDI name for Interact ATM.
INTERACTATM_POOL_NAME	Pool name for Interact ATM.
INTERACTCALLCNTR_JNDI_NAME	JNDI name for Interact Call Center.
INTERACTCALLCNTR_POOL_NAME	Pool name for Interact Call Center.
INTERACTWEB_JNDI_NAME	JNDI name for Interact Web.
INTERACTWEB_POOL_NAME	Pool name for Interact Web.
PRODUCT_OPTS_INTERACT	Product specific options for Interact.
TERM	The database host name.
INTERACT_PRODUCT_NAME	The name assigned for Interact.
INTERACT_WAR_NAME	The name of the WAR file.

Parameter name	Parameter description
INTERACT_APPLICATION_NAME	The name of the main application. For example, Unica.
INTERACT_DOMAIN_USERNAME	The domain username for Interact.
INTERACT_DOMAIN_PASSWORD	The domain password for Interact.

Table 21. Platform server-related parameters of Interact

Parameter name	Parameter description
INTERACTATM_PLATFORM_DATABASE_HOS	Thost system details of the system hosting the Platform-Interact ATM database.
INTERACTATM_PLATFORM_DATABASE_POR	RP ort number of the Platform-Interact ATM database.
INTERACTATM_PLATFORM_DATABASE_USE	RNAMEme to access the Platform-Interact ATM database.
INTERACTATM_PLATFORM_DATABASE_PAS	SWORD or d to access the Platform-Interact ATM database.
INTERACTATM_PLATFORM_DATABASE_NAI	ME ame of the Interact Platform-Interact database.
INTERACTATM_PLATFORM_DS_INITIAL_SIZ	EThe initial size of the Platform-Interact ATM datasource connection pool.
INTERACTATM_PLATFORM_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Platform-Interact ATM datasource connection pool.
INTERACTATM_PLATFORM_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Platform-Interact ATM datasource connection pool. Any idle connections,

Parameter name	Parameter description
	which exceeds the configured value, will be removed from the pool.
INTERACTATM_PLATFORM_DS_MAX_TOTAL	The maximum number of connections that the Platform-Interact ATM datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
INTERACTATM_PLATFORM_DS_STATEMEN	be cached in the Platform-Interact ATM datasource. Statement caching improves performance by caching executable statements that are used repeatedly.

Table 22. Server group-related database parameters of Interact

Parameter name	Parameter description
INTERACTATM_DATABASE_HOST	Host system details of the system hosting the Interact ATM database.
INTERACTATM_DATABASE_PORT	Port number of the Interact ATM database.
INTERACTATM_DATABASE_USERNAME	Username to access the Interact ATM database.
INTERACTATM_DATABASE_PASSWORD	Password to access the Interact ATM database.
INTERACTATM_DATABASE_NAME	Name of the Interact ATM database.
INTERACTATM_DS_INITIAL_SIZE	The initial size of the Interact ATM datasource connection pool.

Parameter name	Parameter description
INTERACTATM_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Interact ATM datasource connection pool.
INTERACTATM_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Interact ATM datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
INTERACTATM_DS_MAX_TOTAL	The maximum number of connections that the Interact ATM datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
INTERACTATM_DS_STATEMENT_CACHE_SIZ	be cached in the Interact ATM datasource. Statement caching improves performance by caching executable statements that are used repeatedly.
INTERACTWEB_DATABASE_HOST	Host system details of the system hosting the Interact Web database.
INTERACTWEB_DATABASE_PORT	Port number of the Interact Web database.
INTERACTWEB_DATABASE_USERNAME	Username to access the Interact Web database.
INTERACTWEB_DATABASE_PASSWORD	Password to access the Interact Web database.
INTERACTWEB_DATABASE_NAME	Name of the Interact Web database.

Parameter name	Parameter description
INTERACTWEB_DS_INITIAL_SIZE	The initial size of the Interact Web datasource connection pool.
INTERACTWEB_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Interact Web datasource connection pool.
INTERACTWEB_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Interact Web datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
INTERACTWEB_DS_MAX_TOTAL	The maximum number of connections that the Interact Web datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
INTERACTWEB_DS_STATEMENT_CACHE_SI	Delaximum number of statements that can be cached in the Interact Web datasource. Statement caching improves performance by caching executable statements that are used repeatedly.
INTERACTCALLCNTR_DATABASE_HOST	Host system details of the system hosting the Interact Call Center database.
INTERACTCALLCNTR_DATABASE_PORT	Port number of the Interact Call Center database.
INTERACTCALLCNTR_DATABASE_USERNAM	IB sername to access the Interact Call Center database.

Parameter name	Parameter description
INTERACTCALLCNTR_DATABASE_PASSWOR	RP assword to access the Interact Call Center database.
INTERACTCALLCNTR_DATABASE_NAME	Name of the Interact Call Center database.
INTERACTCALLCNTR_DS_INITIAL_SIZE	The initial size of the Interact Call Center datasource connection pool.
INTERACTCALLCNTR_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Interact Call Center datasource connection pool.
INTERACTCALLCNTR_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Interact Call Center datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
INTERACTCALLCNTR_DS_MAX_TOTAL	The maximum number of connections that the Interact Call Center datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
INTERACTCALLCNTR_DS_STATEMENT_CAC	HE2SIZEm number of statements that can be cached in the Interact Call Center datasource. Statement caching improves performance by caching executable statements that are used repeatedly.

Table 23. Server-related database parameters of Interact

Parameter name	Parameter description
INTERACT_PROD_DATABASE_HOST	Host system details of the system hosting the Interact Production database.
INTERACT_PROD_DATABASE_PORT	Port number of the Interact Production database.
INTERACT_PROD_DATABASE_NAME	Username to access the Interact Production database.
INTERACT_PROD_DATABASE_USERNAME	Password to access the Interact Production database.
INTERACT_PROD_DATABASE_PASSWORD	Name of the Interact Production database.
INTERACT_PROD_DS_INITIAL_SIZE	The initial size of the Interact Production datasource connection pool.
INTERACT_PROD_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Interact Production datasource connection pool.
INTERACT_PROD_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Interact Production datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
INTERACT_PROD_DS_MAX_TOTAL	The maximum number of connections that the Interact Production datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.

Parameter name	Parameter description
INTERACT_PROD_DS_STATEMENT_CACHE_	can be cached in the Interact Production datasource. Statement caching improves performance by caching executable statements that are used repeatedly.
INTERACT_PROD_DSN_NAME	The dbname of the respective database.
INTERACT_TEST_DATABASE_HOST	Host system details of the system hosting the Interact Test database.
INTERACT_TEST_DATABASE_PORT	Port number of the Interact Test database.
INTERACT_TEST_DATABASE_NAME	Username to access the Interact Test database.
INTERACT_TEST_DATABASE_USERNAME	Password to access the Interact Test database.
INTERACT_TEST_DATABASE_PASSWORD	Name of the Interact Test database.
INTERACT_TEST_DS_INITIAL_SIZE	The initial size of the Interact Test datasource connection pool.
INTERACT_TEST_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Interact Test datasource connection pool.
INTERACT_TEST_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Interact Test datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
INTERACT_TEST_DS_MAX_TOTAL	The maximum number of connections that the Interact Test datasource can hold. If

Parameter name	Parameter description
	the number of connection requests exceed the configured value, the connection will be refused.
INTERACT_TEST_DS_STATEMENT_CACHE_S	be cached in the Interact Test datasource. Statement caching improves performance by caching executable statements that are used repeatedly.
INTERACT_TEST_DSN_NAME	The dbname of the respective database.
INTERACT_LEARNING_DATABASE_HOST	Host system details of the system hosting the Interact Learning database.
INTERACT_LEARNING_DATABASE_PORT	Port number of the Interact Learning database.
INTERACT_LEARNING_DATABASE_NAME	Username to access the Interact Learning database.
INTERACT_LEARNING_DATABASE_USERNA	ME assword to access the Interact Learning database.
INTERACT_LEARNING_DATABASE_PASSWO	RDame of the Interact Learning database.
INTERACT_LEARNING_DS_INITIAL_SIZE	The initial size of the Interact Learning datasource connection pool.
INTERACT_LEARNING_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Interact Learning datasource connection pool.
INTERACT_LEARNING_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Interact Learning datasource connection

Parameter name	Parameter description
	pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
INTERACT_LEARNING_DS_MAX_TOTAL	The maximum number of connections that the Interact Learning datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
INTERACT_LEARNING_DS_STATEMENT_CAG	CNEXSIZEM number of statements that can be cached in the Interact Learning datasource. Statement caching improves performance by caching executable statements that are used repeatedly.
INTERACT_CHRH_DATABASE_HOST	Host system details of the system hosting the Interact CHRH database.
INTERACT_CHRH_DATABASE_PORT	Port number of the Interact CHRH database.
INTERACT_CHRH_DATABASE_NAME	Username to access the Interact CHRH database.
INTERACT_CHRH_DATABASE_USERNAME	Password to access the Interact CHRH database.
INTERACT_CHRH_DATABASE_PASSWORD	Name of the Interact CHRH database.
INTERACT_CHRH_DS_INITIAL_SIZE	The initial size of the Interact CHRH datasource connection pool.
INTERACT_CHRH_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Interact CHRH datasource connection pool.

Parameter name	Parameter description
INTERACT_CHRH_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Interact CHRH datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
INTERACT_CHRH_DS_MAX_TOTAL	The maximum number of connections that the Interact CHRH datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
INTERACT_CHRH_DS_STATEMENT_CACHE_	be cached in the Interact CHRH datasource. Statement caching improves performance by caching executable statements that are used repeatedly.
INTERACT05_DATABASE_HOST	Host system details of the system hosting the Interact05 database.
INTERACT05_DATABASE_PORT	Port number of the Interact05 database.
INTERACT05_DATABASE_NAME	Username to access the Interact05 database.
INTERACT05_DATABASE_USERNAME	Password to access the Interact05 database.
INTERACT05_DATABASE_PASSWORD	Name of the Interact05 database.
INTERACT05_DS_INITIAL_SIZE	The initial size of the Interact05 datasource connection pool.

Parameter name	Parameter description
INTERACT05_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Interact05 datasource connection pool.
INTERACT05_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Interact05 datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
INTERACT05_DS_MAX_TOTAL	The maximum number of connections that the Interact05 datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
INTERACT05_DS_STATEMENT_CACHE_SIZE	Maximum number of statements that can be cached in the Interact05 datasource. Statement caching improves performance by caching executable statements that are used repeatedly.

Table 24. Application server-related parameters of Interact

Parameter name	Parameter description
INT_HOST_NAME	The system host name of Interact.
INT_MANAGEMENT_PORT	The management port number for the Interact system.
INT_MANAGEMENT_HTTPS_PORT	The management HTTPS port number for the Interact system.

Parameter name	Parameter description
INT_AJP_PORT	The AJP port number for the Interact system.
INT_HTTP_PORT	The HTTP port number for the Interact system.
INT_HTTPS_PORT	The HTTPS port number for the Interact system.
INT_RECOVERY_ENV_PORT	The recovery environment port number of the Interact system.
INT_STATUS_MANAGER_PORT	The status manager port number of the Interact system.
INT_MIN_HEAP	The maximum heap size allocated for Interact.
INT_MAX_HEAP	The maximum heap size allocated for Interact.

Journey configurations

To configure the Journey server for Cloud Native Unica, make the necessary modifications to the journey-configMap.yaml file.

To access the journey-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 25. Common parameters of Journey

Parameter name	Parameter description
JOURNEY_HOST_NAME	The system host name of Journey.

Parameter name	Parameter description
JOURNEY_MANAGEMENT_PORT	The management port number for the Journey system.
JOURNEY_MANAGEMENT_HTTPS_PORT	The management HTTPS port number for the Journey system.
JOURNEY_AJP_PORT	The AJP port number for the Journey system.
JOURNEY_HTTP_PORT	The HTTP port number for the Journey system.
JOURNEY_HTTPS_PORT	The HTTPS port number for the Journey system.
JOURNEY_RECOVERY_ENV_PORT	The recovery environment port number of the Journey system.
JOURNEY_STATUS_MANAGER_PORT	The status manager port number of the Journey system.
JOURNEY_MIN_HEAP	The maximum heap size allocated for Journey. For example, 1024m.
JOURNEY_MAX_HEAP	The maximum heap size allocated for Journey. For example, 6614m.
DB_TYPE_JOURNEY	The name of the database used by the Journey system. For example, oracle.
DB_DRIVER_CLASS_JOURNEY	The class name of the Journey Database drivers. For example oracle.jdbc.OracleDriver.
JOURNEYREPORT_DB_NAME	The database name of the server hosting the Journey Reports. For example, journeyuser.

Journey web configurations

To configure the Journey web server for Cloud Native Unica, make the necessary modifications to the journeyweb-configMap.yaml file.

To access the journeyweb-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 26. Common parameters of Journey web configuration

Parameter name	Parameter description
JOURNEYWEB_JNDI_NAME	JNDI name for Journey web.
JOURNEYWEB_POOL_NAME	Pool name for Journey web.
PRODUCT_OPTS_PLATFORM	Product-specific options for Journey web.
JOURNEYWEB_PRODUCT_NAME	The name assigned for Journey web.
JOURNEYWEB_WAR_NAME	The name of the WAR file.
JOURNEYWEB_APPLICATION_NAME	The name of the main application. For example, Unica.
JOURNEYWEB_DOMAIN_USERNAME	The domain username for Journey web.
JOURNEYWEB_DOMAIN_PASSWORD	The domain password for Journey web.

Table 27. Database parameters of Journey web configuration

Parameter name	Parameter description
JOURNEYWEB_DATABASE_HOST	Host system details of the system hosting the Journey web database.
JOURNEYWEB_DATABASE_PORT	Port number of the Journey web database.
JOURNEYWEB_DATABASE_USERNAME	Username to access the Journey web database.

Parameter name	Parameter description
JOURNEYWEB_DATABASE_PASSWORD	Password to access the Journey web database.
JOURNEYWEB_DATABASE_NAME	Name of the Journey web database.
JOURNEYWEB_DS_INITIAL_SIZE	The initial size of the Journey web datasource connection pool.
JOURNEYWEB_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Journey web datasource connection pool.
JOURNEYWEB_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Journey web datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
JOURNEYWEB_DS_MAX_TOTAL	The maximum number of connections that the Journey web datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
JOURNEYWEB_DS_STATEMENT_CACHE_SIZ	Maximum number of statements that can be cached in the Journey web datasource. Statement caching improves performance by caching executable statements that are used repeatedly.

Table 28. Application server parameters of Journey web configuration

Parameter name	Parameter description
JOURNEYWEB_URL	The URL to access Journey web.

Parameter name	Parameter description
JOURNEYWEB_HOST_NAME	The system host name of Journey web.
JOURNEYWEB_MANAGEMENT_PORT	The management port number for the Journey web system.
JOURNEYWEB_MANAGEMENT_HTTPS_POR	The management HTTPS port number for the Journey web system.
JOURNEYWEB_AJP_PORT	The AJP port number for the Journey web system.
JOURNEYWEB_HTTP_PORT	The HTTP port number for the Journey web system.
JOURNEYWEB_HTTPS_PORT	The HTTPS port number for the Journey web system.
JOURNEYWEB_RECOVERY_ENV_PORT	The recovery environment port number of the Journey web system.
JOURNEYWEB_STATUS_MANAGER_PORT	The status manager port number of the Journey web system.
JOURNEYWEB_MIN_HEAP	The maximum heap size allocated for Journey web.
JOURNEYWEB_MAX_HEAP	The maximum heap size allocated for Journey web.

Table 29. Apache Tomcat server-specific parameters of Journey web configuration

Parameter name	Parameter description
TOMCAT_INSTALLER_TARGZ	The name of the Apache Tomcat installer TARGZ file.
TOMCAT_INSTALLER_UNZIP_DIRNAME	The location to extract the Apache Tomcat installer TARGZ file.

Parameter name	Parameter description
TOMCAT_INSTALL_LOCATION	The location to install Apache Tomcat.
TOMCAT_INSTALL_CHECK_LOCATION	
FORCE_INIT_TOMCAT	Set whether you want to force initialize Apache Tomcat. TRUE to activate for initialization and FALSE to deactivate force initialization.
TOMCAT_SHUTDOWN_PORT	The TCP/IP port number of the Apache Tomcat server waiting for a shutdown command.
TOMCAT_MAX_EXECUTOR_THREADS	The maximum number of threads (based on the maxThreads property of Apache Tomcat) used for HTTP connections.
TOMCAT_MIN_EXECUTOR_THREADS	The minimum number of threads (based on the minSpareThreads property of Apache Tomcat) that is always present in the thread pool.
TOMCAT_REDIRECT_PORT	The redirect port number (redirectPort property) of the Apache Tomcat server handling SSL connections.

Table 30. Other parameters of Journey web configuration

Parameter name	Parameter description
JOURNEYWEB_IP_FINDER_LIST	
JOURNEYWEB_MULTICAST_GROUP	
JOURNEYWEB_MULTICAST_PORT	
JOURNEYWEB_MULTICASE_ENABLED	

Parameter name	Parameter description
JOURNEYWEB_DEFAULT_DATA_REGION_MA	X_SIZE
JOURNEYWEB_GOAL_MAX_SIZE_ALLOWED	

Table 31. Configuration of Journey report parameters

Parameter name	Parameter description
JOURNEYREPORT_DATABASE_NAME	Name of the Journey report database.
JOURNEY_REPORT_DATABASE_USERNAME	Username to access the Journey report database.
JOURNEY_REPORT_DATABASE_PASSWORD	Password to access the Journey report database.
JOURNEYREPORT_DS_INITIAL_SIZE	The initial size of the Journey report datasource connection pool.
JOURNEYREPORT_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Journey report datasource connection pool.
JOURNEYREPORT_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Journey report datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
JOURNEYREPORT_DS_MAX_TOTAL	The maximum number of connections that the Journey report datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.

Parameter name	Parameter description
JOURNEYREPORT_DS_STATEMENT_CACHE	SIZE mum number of statements that can
	be cached in the Journey report datasource.
	Statement caching improves performance
	by caching executable statements that are
	used repeatedly.
JOURNEYREPORT_JNDI_NAME	JNDI name for Journey report.
JOURNEYREPORT_POOL_NAME	Pool name for Journey report.
JOURNEYREPORT_DB_NAME	The database name of the server hosting
	the Journey Reports. For example,
	journeyuser.

Kafka configurations

To configure the Kafka server for Journey, make the necessary modifications to the kafka-configMap.yaml file.

To access the kafka-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 32. Database-parameters of Kafka configuration

Parameter name	Parameter description
JOURNEY_DATABASE_HOST	Host system details of the system hosting the Journey database.
JOURNEY_DATABASE_PORT	Port number of the Journey database.
JOURNEY_DATABASE_USERNAME	Username to access the Journey database.
JOURNEY_DATABASE_PASSWORD	Password to access the Journey database.
JOURNEY_DATABASE_NAME	Name of the Journey database.

Table 33. Common parameters of Kafka configuration

Parameter name	Parameter description
KAFKA_SERVER	The details of the system hosting the Kafka server.
KAFKA_HOST_NAME	The host name of the Kafka server.
KAFKA_PORT	The port number to access the Kafka server.
JOURNEY_HOST_NAME	The host name of the Journey server.
JOURNEY_PORT	The port number to access the Journey server.
ZOOKEEPER_PORT	

Plan configurations

To configure Plan for Cloud Native Unica, make the necessary modifications to the plan-configMap.yaml file.

To access the plan-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 34. Common parameters of Plan

Parameter name	Parameter description
PRODUCT_OPTS_PLAN	Product specific options for Plan.
PLAN_JNDI_NAME	JNDI name for Plan.
PLAN_POOL_NAME	Pool name for Plan.
PLAN_PRODUCT_NAME	The name assigned for Plan.
PLAN_WAR_NAME	The name of the WAR file.

Parameter name	Parameter description
PLAN_APPLICATION_NAME	The name of the main application. For example, Unica.
PLAN_DOMAIN_USERNAME	The domain username for Plan.
PLAN_DOMAIN_PASSWORD	The domain password for Plan.

Table 35. Application server-related parameters of Plan

Parameter name	Parameter description
PLAN_HOST_NAME	The system host name of Plan.
PLAN_MANAGEMENT_PORT	The management port number for the Plan system.
PLAN_MANAGEMENT_HTTPS_PORT	The management HTTPS port number for the Plan system.
PLAN_AJP_PORT	The AJP port number for the Plan system.
PLAN_HTTP_PORT	The HTTP port number for the Plan system.
PLAN_HTTPS_PORT	The HTTPS port number for the Plan system.
PLAN_RECOVERY_ENV_PORT	The recovery environment port number of the Plan system.
PLAN_STATUS_MANAGER_PORT	The status manager port number of the Plan system.
PLAN_MIN_HEAP	The minimum heap size allocated for Plan.
PLAN_MAX_HEAP	The maximum heap size allocated for Plan.
PLAN_URL	The URL to access Plan.

Table 36. Database-related parameters for Plan

Parameter name	Parameter description
PLAN_PORT	The port number to access the Plan system.
PLAN_HOST	The host name of the Plan system.
DB_PLAN	The database name for Plan.
DB_PLAN_HOST	The host details of the database in the Plan system.
DB_PLAN_PORT	The database port number of the Plan system.
DB_PLAN_HOST_NAME	Host name of the system hosting the Plan database.
PLAN_DATABASE_HOST	Host system details of the system hosting the Plan database.
PLAN_DATABASE_PORT	Port number of the Plan database.
PLAN_DATABASE_NAME	Name of the Plan database.
PLAN_DATABASE_USERNAME	Username to access the Plan database.
PLAN_DATABASE_PASSWORD	Password to access the Plan database.
PLAN_DS_INITIAL_SIZE	The initial size of the Plan datasource connection pool.
PLAN_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Plan datasource connection pool.
PLAN_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Plan datasource connection pool. Any idle

Parameter name	Parameter description
	connections, which exceeds the configured value, will be removed from the pool.
PLAN_DS_MAX_TOTAL	The maximum number of connections that the Plan datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
PLAN_DS_STATEMENT_CACHE_SIZE	Maximum number of statements that can be cached in the Plan datasource. Statement caching improves performance by caching executable statements that are used repeatedly.

Platform configurations

To configure Platform for Cloud Native Unica, make the necessary modifications to the platform-configMap.yaml file.

To access the platform-configMap.yaml file, navigate to /unica/templates/ in the Unica charts folder. Open the file and make modifications to the following parameters:

Table 37. Common parameters of Platform

Parameter name	Parameter description
PLATFORM_JNDI_NAME	JNDI name for Platform.
PLATFORM_POOL_NAME	Pool name for Platform.
PRODUCT_OPTS_BASE	Base options for all products of Unica.
PRODUCT_OPTS_PLATFORM	Product specific options for Platform.

Parameter name	Parameter description
FORCE_INIT_WEBLOGIC	Set whether you want to force initialize WebLogic. TRUE to activate for initialization and FALSE to deactivate force initialization.
JAVA_HOME_WEBLOGIC	Location of Java Home on your system.
PLATFORM_PRODUCT_NAME	The name assigned for Platform.
PLATFORM_WAR_NAME	The name of the war file.
PLATFORM_APPLICATION_NAME	The name of the main application. For example, Unica.
PLATFORM_DOMAIN_USERNAME	The domain username for Platform.
PLATFORM_DOMAIN_PASSWORD	The domain password for Platform.
REPLACE_ADMIN_USR_NAME	
REPLACE_ADMIN_USR_PASSWORD	

Table 38. Database-related parameters of Platform

Parameter name	Parameter description
PLATFORM_DATABASE_HOST	Host system details of the system hosting the Platform database.
PLATFORM_DATABASE_PORT	Port number of the Platform database.
PLATFORM_DATABASE_USERNAME	Username to access the Platform database.
PLATFORM_DATABASE_PASSWORD	Password to access the Platform database.
PLATFORM_DATABASE_NAME	Name of the Platform database.
DB_PLAT	The database name for Platform.
PLATFORM_DS_INITIAL_SIZE	The initial size of the Platform datasource connection pool.

Parameter name	Parameter description
PLATFORM_DS_MIN_IDLE	The minimum number of idle connections (not connected to a database) in the Platform datasource connection pool.
PLATFORM_DS_MAX_IDLE	The maximum number of idle connections (not connected to a database) in the Platform datasource connection pool. Any idle connections, which exceeds the configured value, will be removed from the pool.
PLATFORM_DS_MAX_TOTAL	The maximum number of connections that the Platform datasource can hold. If the number of connection requests exceed the configured value, the connection will be refused.
PLATFORM_DS_STATEMENT_CACHE_SIZE	Maximum number of statements that can be cached in the Platform datasource. Statement caching improves performance by caching executable statements that are used repeatedly.

Table 39. Application server-related parameters of Platform

Parameter name	Parameter description
MANAGER_URL	The URL to access Manager.
PLAT_HOST_NAME	The system host name of Platform.
PLAT_MANAGEMENT_PORT	The management port number for the Platform system.
PLAT_MANAGEMENT_HTTPS_PORT	The management HTTPS port number for the Platform system.

Parameter name	Parameter description
PLAT_AJP_PORT	The AJP port number for the Platform system.
PLAT_HTTP_PORT	The HTTP port number for the Platform system.
PLAT_HTTPS_PORT	The HTTPS port number for the Platform system.
PLAT_RECOVERY_ENV_PORT	The recovery environment port number of the Platform system.
PLAT_STATUS_MANAGER_PORT	The status manager port number of the Platform system.
PLAT_MIN_HEAP	The minimum heap size allocated for Platform.
PLAT_MAX_HEAP	The maximum heap size allocated for Platform.

Table 40. Apache Tomcat-specific parameters

Parameter name	Parameter description
TOMCAT_INSTALLER_TARGZ	The name of the Apache Tomcat installer TARGZ file.
TOMCAT_INSTALLER_UNZIP_DIRNAME	The location to extract the Apache Tomcat installer TARGZ file.
TOMCAT_INSTALL_LOCATION	The location to install Apache Tomcat.
FORCE_INIT_TOMCAT	Set whether you want to force initialize Apache Tomcat. TRUE to activate for initialization and FALSE to deactivate force initialization.

Parameter name	Parameter description
TOMCAT_SHUTDOWN_PORT	The TCP/IP port number of the Apache Tomcat server waiting for a shutdown command.
TOMCAT_MAX_EXECUTOR_THREADS	The maximum number of threads (based on the maxThreads property of Apache Tomcat) used for HTTP connections.
TOMCAT_MIN_EXECUTOR_THREADS	The minimum number of threads (based on the minSpareThreads property of Apache Tomcat) that is always present in the thread pool.
TOMCAT_REDIRECT_PORT	The redirect port number (redirectPort property) of the Apache Tomcat server handling SSL connections.

Sub-chart configuration in Helm charts

To run a database container as a sub-chart, the database must reside within the cluster. Sub-charts have their own <code>configMap</code> for configurations.

Note: Cloud Native Unica does not own the database.