

Install Transformation Advisor

1. Install Transformation Advisor on ICP

Transformation Advisor is installed on ICP from ICP Catalog via a helm chart and is typically installed in to the `default` namespace.

Versions of Transformation Advisor prior to v1.9 were *only* installable into ICP default namespace. As of v1.9, TA can be installed into a non-default namespace, refer to chart's README for further details how to install into non-default namespace.

Pre-requisites to install TA:

1. Create a secret for Couch DB to be used during TA install. For this demo environment you can use default secret values suggested by the TA chart readme:

```
echo -n 'admin' | base64
# output: YWRtaW4=

echo -n "this-will-be-my-secret-without-space" | base64
# output: dGhpcy13aWxsLWJlLW15LXNlY3JldC13aXRob3V0LXNwYWwNl
# Please you user own secret value
```

Once you have the base64 encrypted values, use the ICP UI to create a new secret usign the following values:

Name: `transformation-advisor-secret`

Namespace: `default`

db_username: `YWRtaW4=`

secret: `dGhpcy13aWxsLWJlLW15LXNlY3JldC13aXRob3V0LXNwYWwNl`

SECRET
JSON mode
X

Create Secret
Off
On

General
Annotations
Data

Name *
transformation-advisor-secret
Namespace *
default
Type

Cancel
Create

SECRET
JSON mode
X

Create Secret
Off
On

General
Annotations
Data

NameValue
db_usernameYWRtaW4=
NameValue
secret<Rob3V0LXNwYWNI
Add data +

Cancel
Create

- Make sure there is suitable Persistent volume (PV) available to be used by TA. This step is NOT required if your ICP cluster supports dynamic provisioning of persistent volumes, as in this case PV will be automatically provisioned. If your cluster only supports static persistent volumes, follow the instructions below.

Examine PVs available in your cluster, e.g.

IBM Cloud Private								Create resource	Catalog	Docs	Support	
Storage												
PersistentVolumeClaim												
<div> <div>Search</div> <div>Create PersistentVolume +</div> </div>												
Name	Type	Capacity	Access mode	Reclaim policy	Status	Claim	Created					
gitlab-data-pv	NFS	10Gi	RWO	Retain	Bound	jenkins/gitlab-data-pvc	16 minutes ago					
gitlab-etc-pv	NFS	10Gi	RWO	Retain	Bound	jenkins/gitlab-etc-pvc	16 minutes ago					
gitlab-postgress-pv	NFS	10Gi	RWO	Retain	Bound	jenkins/gitlab-postgress-pvc	16 minutes ago					
gitlab-redis-pv	NFS	10Gi	RWO	Retain	Bound	jenkins/gitlab-redis-pvc	16 minutes ago					
jenkins-master	NFS	50Gi	RWO	Retain	Bound	jenkins/jenkins-master-claim	4 hours ago					
vol29	NFS	50Gi	RWX	Retain	Available		5 hours ago					
vol24	NFS	10Gi	RWX	Retain	Available		5 hours ago					
vol25	NFS	10Gi	RWX	Retain	Available		5 hours ago					
vol26	NFS	10Gi	RWX	Retain	Available		5 hours ago					
vol27	NFS	10Gi	RWX	Retain	Available		5 hours ago					

Note that PVs Access mode of available PVs is RWO ("ReadWriteOnce").

3. Install TA helm chart

Installation steps:

3.1. Locate ibm-transadv-dev chart in ICP Catalog, review README and click Configure.

Provide helm release name and select **default** target namespace:

View All

ibm-transadv-dev V 1.9.3

Overview

Configuration

Configuration

IBM Cloud Transformation Advisor. Edit these parameters for configuration.

Helm release name *

my-ta

Target namespace *

default

License *

☒ I have read and agreed to the [License agreement](#)

3.2. Provide master node IP (**10.10.1.2**) and correct secret name in Quick Start section:

Quick start

Recommended parameters to view and edit.

Authentication configuration

Authentication configuration for Transformation Advisor.

Edge node IP *

10.10.1.2

Secret Name * ⓘ

transformation-advisor-secret

3.3. Configure persistence options:

☒ **Enable persistence for this deployment ***

Path to mount the volume * **PVC access mode ***

Size of the volume claim *

☐ **Use dynamic provisioning for persistent volume. *** ⓘ

Existing volume claim **Existing storage class name**

3.4. Leave all other chart settings defaults. Click Install. Examine deployed chart release, wait until all TA pods have successfully started:

Deployment

NAME	DESIRED	CURRENT	UP TO DATE	AVAILABLE	AGE
my-ta-ibm-transadv-dev-couchdb	1	1	1	1	4m
my-ta-ibm-transadv-dev-193-oidc-deployment	1	1	1	1	4m
my-ta-ibm-transadv-dev-server	1	1	1	1	4m
my-ta-ibm-transadv-dev-ui	1	1	1	1	4m

3.5. Locate TA launch link now added to ICP menu (reload the console UI if needed)



You should see the TA UI. The TA is successfully installed.

2. Examine some sample scan results

Engagement Mockup #1: PlantsByWebSphere

Create a "Lab" workspace and a "PlantsByWebSphere" data collection in TA and upload DataCollector results for PlantsByWebSphere app: <https://github.com/ibm-cloud-architecture/icp-dev-workshop/blob/master/lab3/PlantsByWebSphere.zip>

Examine the TA Report for PlantsByWebSphere7 and PlantsByWebSphere8. Review the Analysis, Inventory and Technology reports.

NOTE: The TA analysis of PlantsByWebSphere8 shows 1 severe level issue (below). This is a an example of a "false positive". Why is it a false positive? This issue does not affect the no code changes required for migration.

Source environment
IBM WebSphere Application Server

Profile
PlantsByWebSphere
Version: 8.5.5.9

Preferred migration
Liberty on Private Cloud ▾

Q Search items

Application		Tech match	Dependencies	Issues	Est. dev cost <i>in days</i>	
HelloWorld.ear	Simple	100%	None	None	0	Migration plan
PlantsByWebSphere7.ear	Moderate	90%	5	<div><div>2</div><div>1</div><div>9</div></div>	4	Migration plan
PlantsByWebSphere8.ear	Moderate	100%	3	<div><div>1</div><div>2</div><div>5</div></div>	2	Migration plan

Items per page: 10 ▾ | 1-3 of 3 items

1 of 1 pages

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Engagement Mockup #2: ModResorts

Upload the DataCollector scan results for another simple app - Mod Resorts. Create a new "ModResorts" data collection in the existing "Lab" workspace and upload the zip file: <https://github.com/ibm-cloud-architecture/icp-dev-workshop/blob/master/lab3/ModResorts.zip>

Examine the TA Report for ModResorts_war.ear. Download the "bundle of files" from the migration plan and examine the automatically generated files.

Source environment

IBM WebSphere Application Server Network Deployment

Profile

ModResorts

Version: 9.0.0.4

Preferred migration

Liberty on Private Cloud

Q Search items

Application		Tech match	Dependencies	Issues	Est. dev cost <i>in days</i>	
ModResorts_war.ear	Simple	100%	None	None	0	<div>Migration plan</div>

Items per page: 10 | 1-1 of 1 items

1 of 1 pages

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Engagement Mockup #3: Customer Order

Upload the DataCollector scan results for another application - CustomerOrder. Create a new "CustomerOrder" data collection in the existing "Lab" workspace and upload the zip file: <https://github.com/ibm-cloud-architecture/icp-dev-workshop/blob/master/lab3/AppSrv02.zip>

Examine the TA Report for CustomerOrderServicesApp.ear. Which file has been highlighted by TA as needing to have the EJB Bindings changed?

Source environment
Feature Pack for OSGi Applications and Java Persistence API 2.0

Profile
AppSrv02
Version: 1.0.0.9

Preferred migration
Liberty on Private Cloud ▾

🔍 Search items



Application		Tech match	Dependencies	Issues	Est. dev cost <i>in days</i>	
CustomerOrderServicesApp.ear	Moderate <>	100%	2	1 6	1	Migration plan
Items per page: 10 ▾ 1-1 of 1 items						1 of 1 pages < 1 ▾ >