ICAM Customization in Build Place

ICAM



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Customization Process in Build Place

IFS Maintenix customizations are developed by IFS Internal consultants. In order to facilitate the storage of these custom ICAM (IFS Cloud for Aviation Maintenance) artifacts, each customer is provided with a DB repository and a Container Registry in IFS JFrog.

During the IFS Cloud Deployment, the following steps are carried out:

- **DB deployment:** This deploys the IFS Cloud customization to IFS Cloud schema and ICAM customization to ICAM schemas (Maintenix and Jasper).
- **Middle Tier deployment:** This deploys the IFS Cloud containers released through Release Management & ICAM customizations which reside in the Customers' ICAM Container Registry to the Kubernetes cluster.
- **IFS Installer:** This deploys ICAM custom container and customization database scripts if customization is enabled. The additional IFS installer plugin action is implemented to deploy Maintenix customization database scripts.

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Build and Deployment Workflow

The artifact information required for remote deployments is presented through the Managed Deployment view in the ALE Portal Build Place. With the enablement of customizations for Aviation and Maintenix solutions within IFS Cloud, the IFS ICAM artifacts related to customization deployment must be presented in the same view. The information presented should include the deployment-related artifacts.

The Information required from the Managed Deployment would be:

- IFS Docker Repository.
- IFS Helm Repository.
- IFS JFrog Host.
- ICAM Customization DB Repository Name.
- ICAM Customization Container Registry Name.
- ICAM Deployment artifact Repository Name.
- Read-Only credentials to access the above.

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Configuration and Environment Setup

IFS Cloud Installer deploys Maintenix custom image in IFS Cloud Kubernetes Cluster.

Before a user can create a delivery in the Build Place, the IFS Consultant developer or customer user is required to update the metadata file ifsmaintenixappserver.yaml in the Customer Solution repository and merge it.

The metadata file contains the image name, image version, and custom image repository information. By default, it includes the core Maintenix image version. The user should not modify the image name, only the image version. The file is located in the mxcore/icam/common/ifsmaintenixappserver.yaml.

Sample:

ifsmaintenixappserver.yaml file

ifsmaintenixappserver:

imageVersion: 24.2.0-SWA-latest

imageName: ifs/ifsmaintenix-appserver

customRegistryEnabled: false

Package customization - database scripts.

Both the Liquibase-format and non-Liquibase-format database scripts are supported. While version 24R2, only supported the Liquibase format, non-Liquibase has been is supported starting from version 25R1.

The Liquibase-format database scripts, along with the Liquibase dependency libraries, are packaged into a single zip file and published in the customer-specified IFS JFrog repository. The non-Liquibase format is also published as a zip file but without the Liquibase dependency libraries.

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Integration with Cloud Engineering Pipelines

Deploy customization database

The IFS Cloud installer plugin action **MTXDBCUSTOMIZE** was added to deploy customization database scripts. The installer plugin action is used to deploy customization database scripts in both IFS Managed Cloud pipeline and the Remote Deployment environments.

Before a user can create a delivery in the Build Place, the IFS Consultant Developer or customer must create and add the metadata file maintenix_customizations.yaml in the customer solution repository and merge it. This manifest file contains information such as the customization database artifact ID, version, extract path, type etc.

Similarly, before a user can create a delivery in the Build Place, the IFS Consultant developer or customer is required to add a database customization metadata file maintenix_customizations.yaml in the customer solution repo and merge it. The metadata file provides the customization database artifact ID, version, extract path and type, etc. The file should be located in the repository folder mxcore/icam/metadata/maintenix_customizations.yaml.

For instructions on how to create a branch in the Customer Solution repository, please refer to the Customer Solution Development guide at *Customer Solution Development - ALE Documentation For IFS Cloud*

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