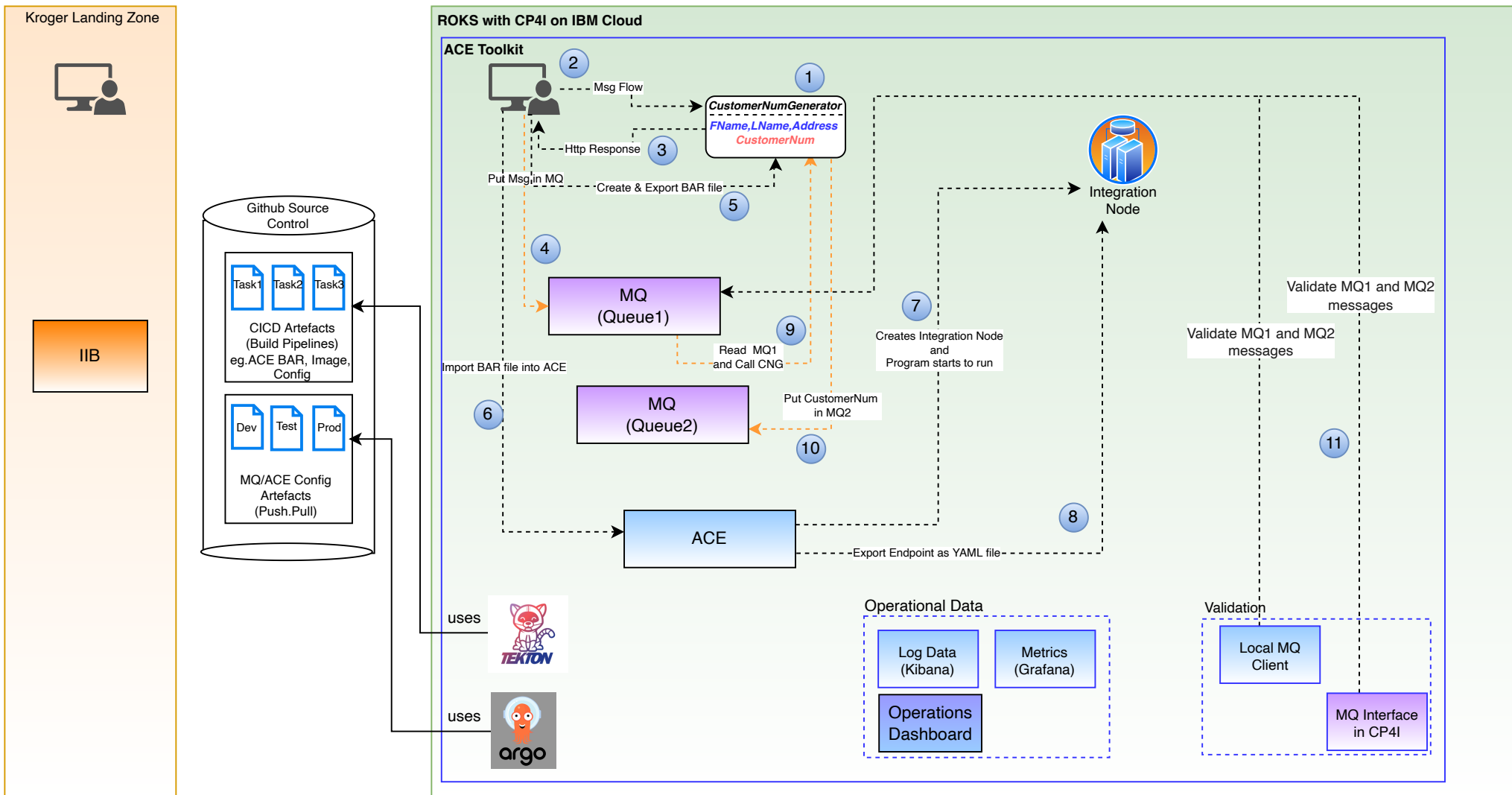# Use-case-1: Future-state MQ and ACE Flow,
Capabilities shown: ACE Toolkit, Message flow, BAR file, MQ, ACE, Developer Portal, Integration Node, MQ Validation.

Kroger Landing Zone

IIB

ROKS with CP4I on IBM Cloud

ACE Toolkit

(2) Msg Flow

(1) **CustomerNumGenerator**
FName,LName,Address
CustomerNum

Http Response (3)

Put Msg in MQ — Create & Export BAR file (5)

(4)

Github Source Control

Task1 Task2 Task3

CICD Artefacts (Build Pipelines) eg.ACE BAR, Image, Config

Dev Test Prod

MQ/ACE Config Artefacts (Push.Pull)

Import BAR file into ACE

MQ (Queue1)

(7) Creates Integration Node and Program starts to run

(9) Read MQ1 and Call CNG

Integration Node

MQ (Queue2)

Put CustomerNum in MQ2

(10)

(6)

uses **TEKTON**

uses **argo**

ACE

Export Endpoint as YAML file

(8)

Operational Data

Log Data (Kibana) | Metrics (Grafana)

Operations Dashboard

Validate MQ1 and MQ2 messages

Validate MQ1 and MQ2 messages

(11)

Validation

Local MQ Client

MQ Interface in CP4I

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(1) Create a CustomerNumGenerator in the ACE Toolkit

(2) Create a Message Flow in the ACE Toolkit running the CustomerNumGenerator

(3) Send Request and receive http-response. Validate.

(4) Put Message in MQ

(5) Create and Export a BAR File for CustomerNumGenerator

(6) Import the BAR File into ACE

(7) The BAR File creates the Integration Node and Programs starts running

(8) Export the Program Endpoint as a YAML File via ACE

(9) Read MQ Queue1 and Call CustomerNumGenerator(CNG)

(10) Put Message (CustomerNum) in MQ Queue2

(11) Validation:
Validate using MQ Explorer or MQ Interface!.
The MQ Queue1 will contain:
1. Request from Step-4.
The MQ Queue2 will contain:
2. Response from Step-10 with the CustomerNum!.

Kroger