



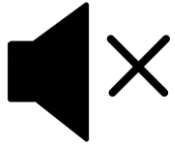
Mar 19, 2024

# IDMC – CI/CD with Jenkins

- Sriram Seshadri, Manager, Customer Success Architects, CSA

Where data & AI come to 

# Housekeeping Tips



- Today's Webinar is scheduled for **1 hour**
- The session will include a webcast and then your questions will be answered live at the end of the presentation
- All dial-in participants will be muted to enable the speakers to present without interruption
- Questions can be submitted to "All Panelists" via the **Q&A option** and we will respond at the end of the presentation
- The webinar is **being recorded** and will be available on our [Success Portal](#) - where you can download the **slide deck** for the presentation. The link to the recording will be emailed as well.
- Please take time to complete the **post-webinar survey** and provide your feedback and suggestions for upcoming topics.

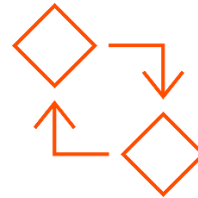
# Feature Rich Success Portal



**Bootstrap trial and  
POC Customers**



**Enriched Customer  
Onboarding  
experience**



**Product  
Learning Paths  
and Weekly  
Expert Sessions**

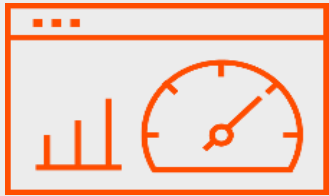


**Informatica  
Concierge**



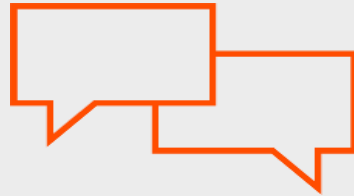
**Tailored training  
and content  
recommendations**

# More Information



## Success Portal

<https://success.informatica.com>



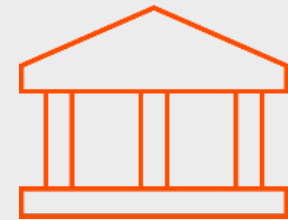
## Communities & Support

<https://network.informatica.com>



## Documentation

<https://docs.informatica.com>



## University

<https://www.informatica.com/in/services-and-training/informatica-university.html>

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# IDMC CI/CD with Jenkins

Sriram Seshadri

Manager, Customer Success Architects

Where data & AI come to 

# Agenda

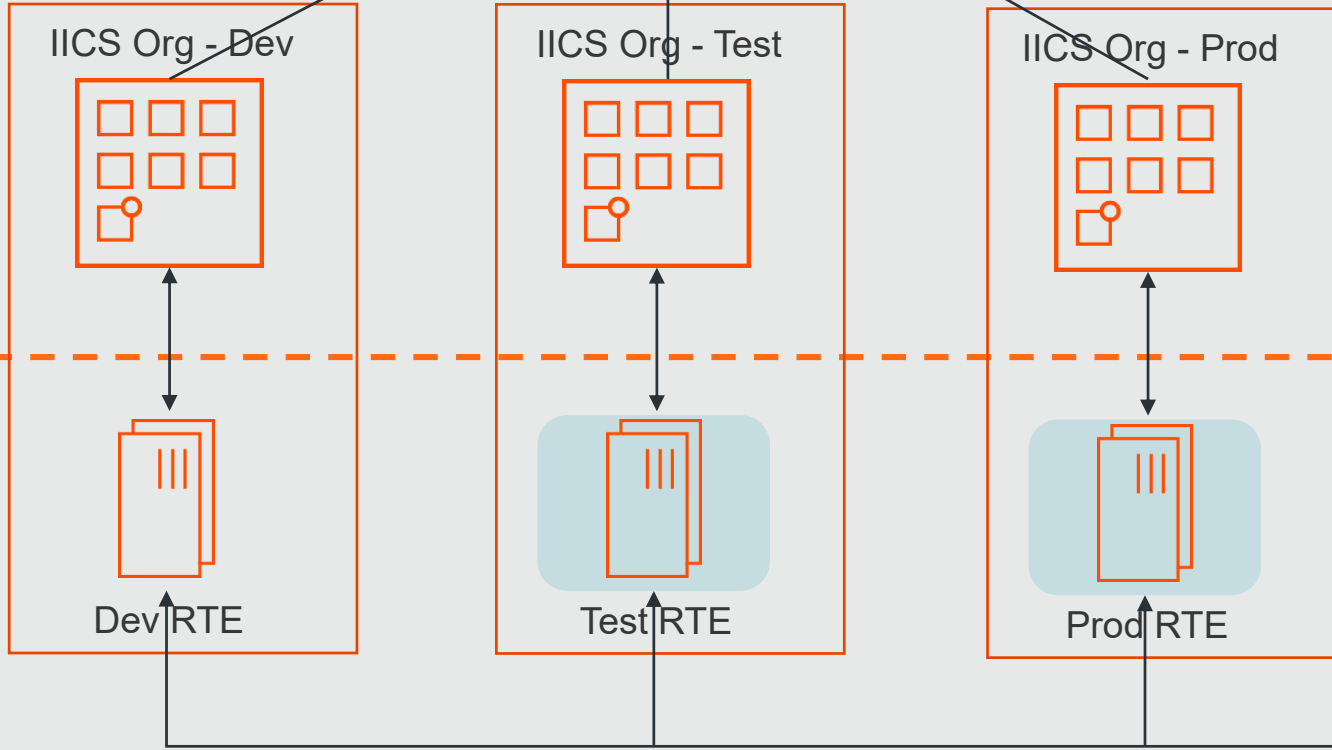
- Recap of the recommended CI/CD process.
- IDMC's platform support for the overall process
- Pipeline steps.
- Best Practices and Guidelines.
- Demo

# IDMC- CI/CD with Jenkins

**Multibranch Pipeline**  
Creates a set of Pipeline projects according to detected branches in one SCM repository.



Dev branch      Test branch      Prod branch



Cloud Sources/Targets

SaaS

Customer Infrastructure

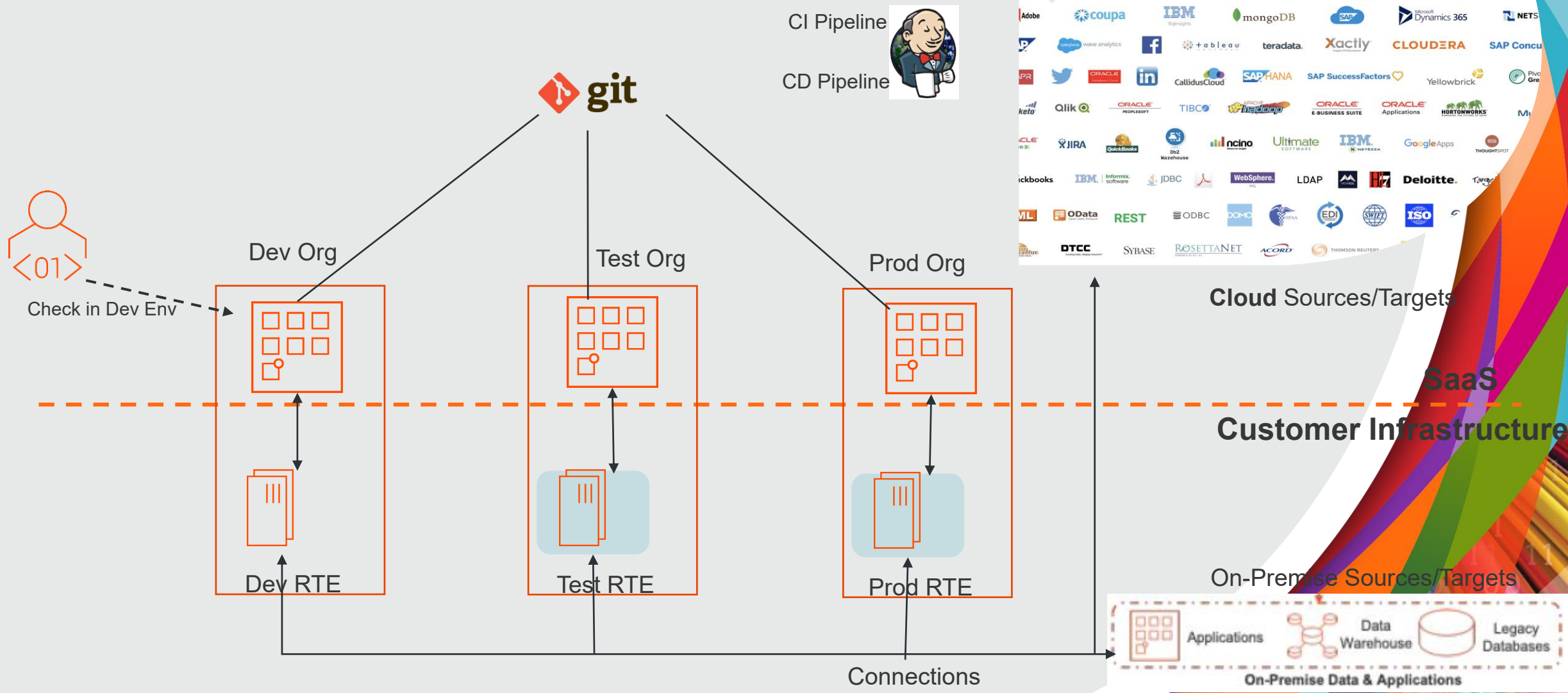
On-Premise Sources/Targets



Connections



# Step 1: a. Developer checks in revisions to Dev branch



CI Pipeline 

CD Pipeline



Cloud Sources/Targets

SaaS

Customer Infrastructure

On-Premise Sources/Targets

On-Premise Data & Applications

Applications

Data Warehouse

Legacy Databases

Connections

Dev Org

Test Org

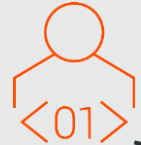
Prod Org

Dev RTE

Test RTE

Prod RTE

Check in Dev Env



CI Pipeline

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Dev Org

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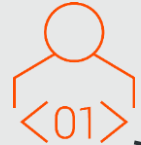
Prod Org

Dev RTE

Test RTE

Prod RTE

Check in Dev Env



CI Pipeline

CD Pipeline

Cloud Sources/Targets

SaaS

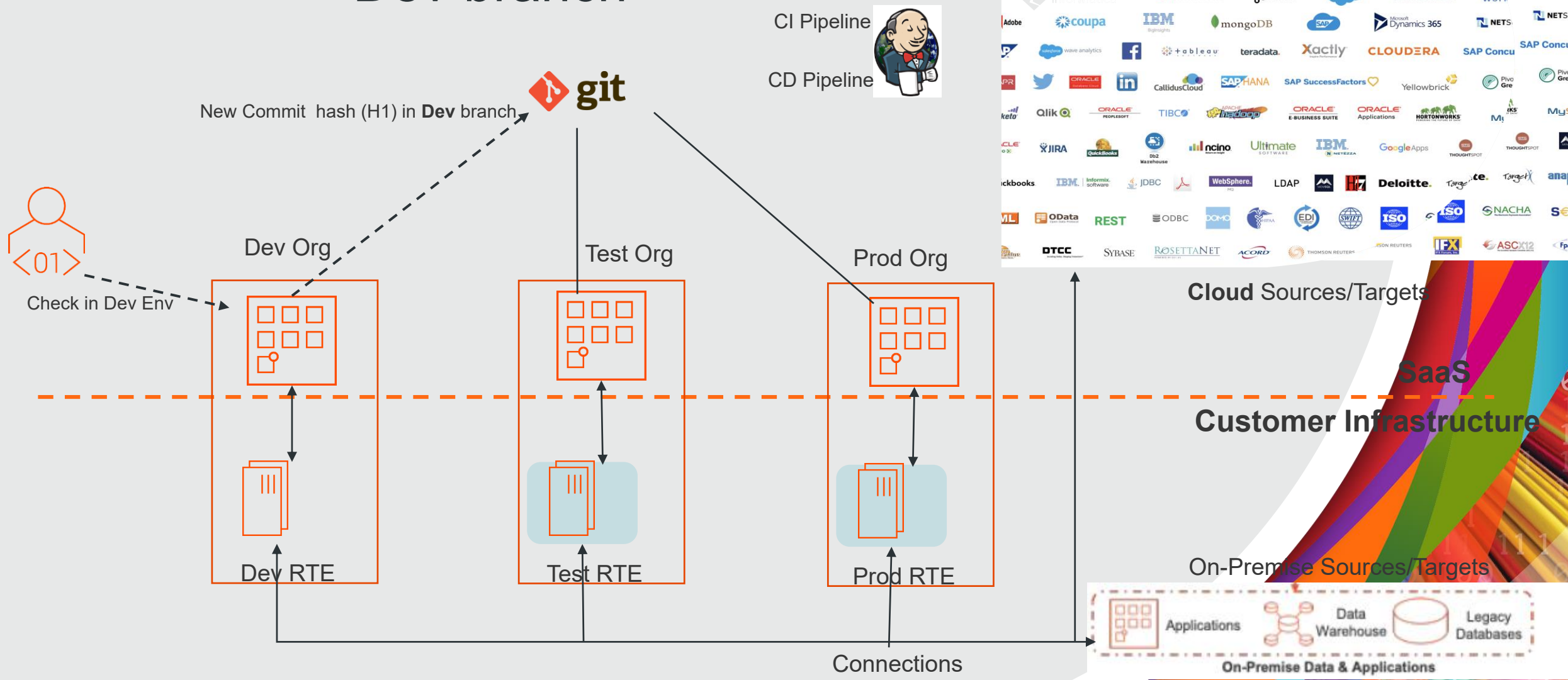
Customer Infrastructure

On-Premise Sources/Targets

On-Premise Data & Applications

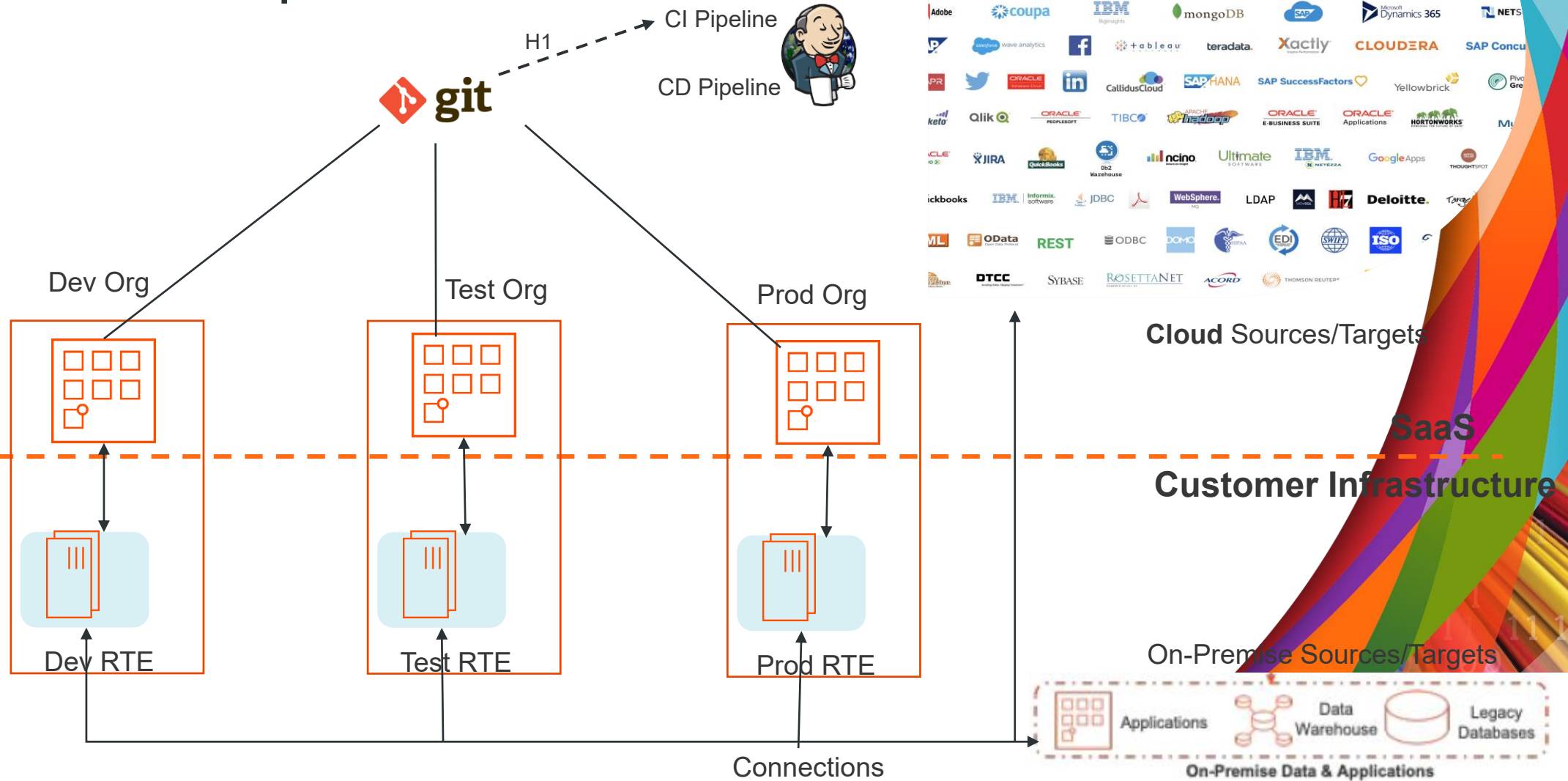
Connections

# Step 1: a. Developer checks in revisions to Dev branch

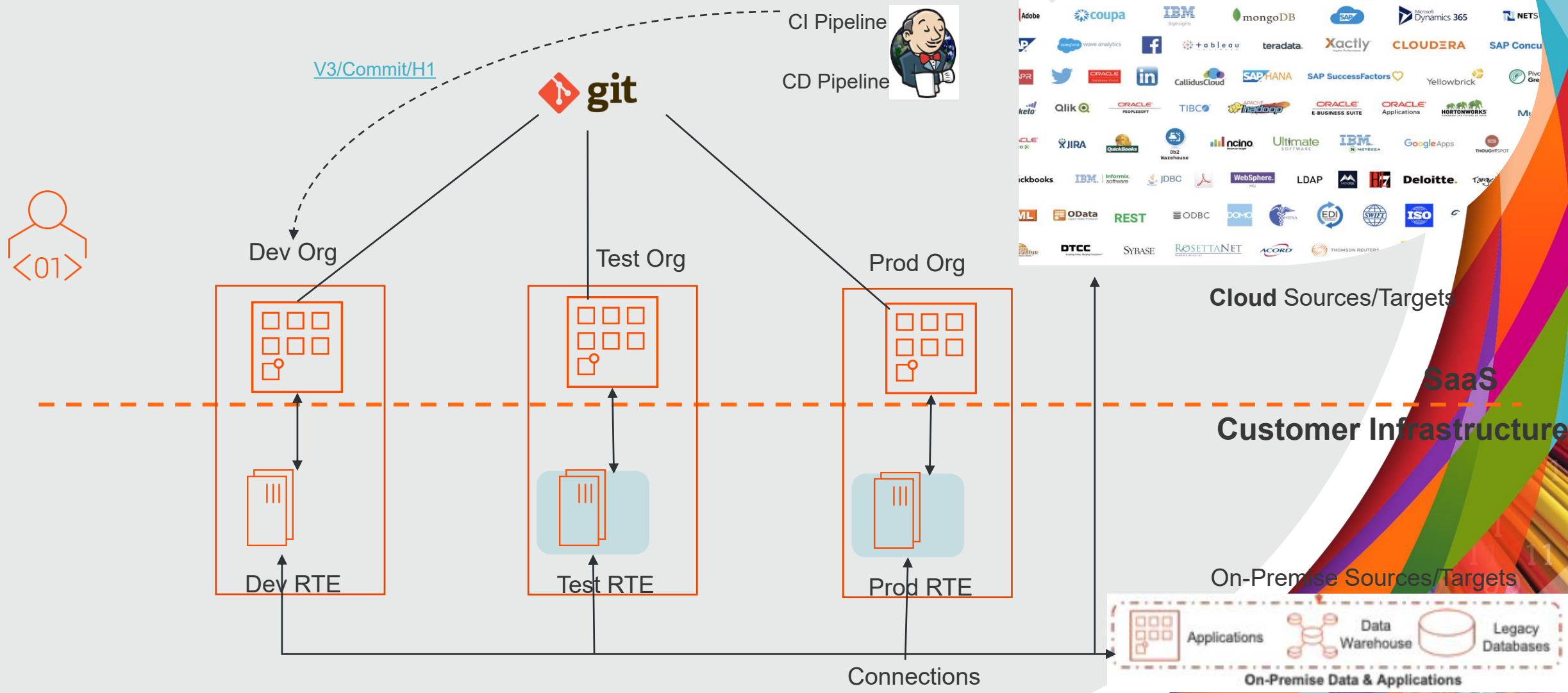




# Step 1: b. Git passes hash H1 via webhook to CI Pipeline



# Step 1: c. CI retrieves list of assets for H1 via REST API



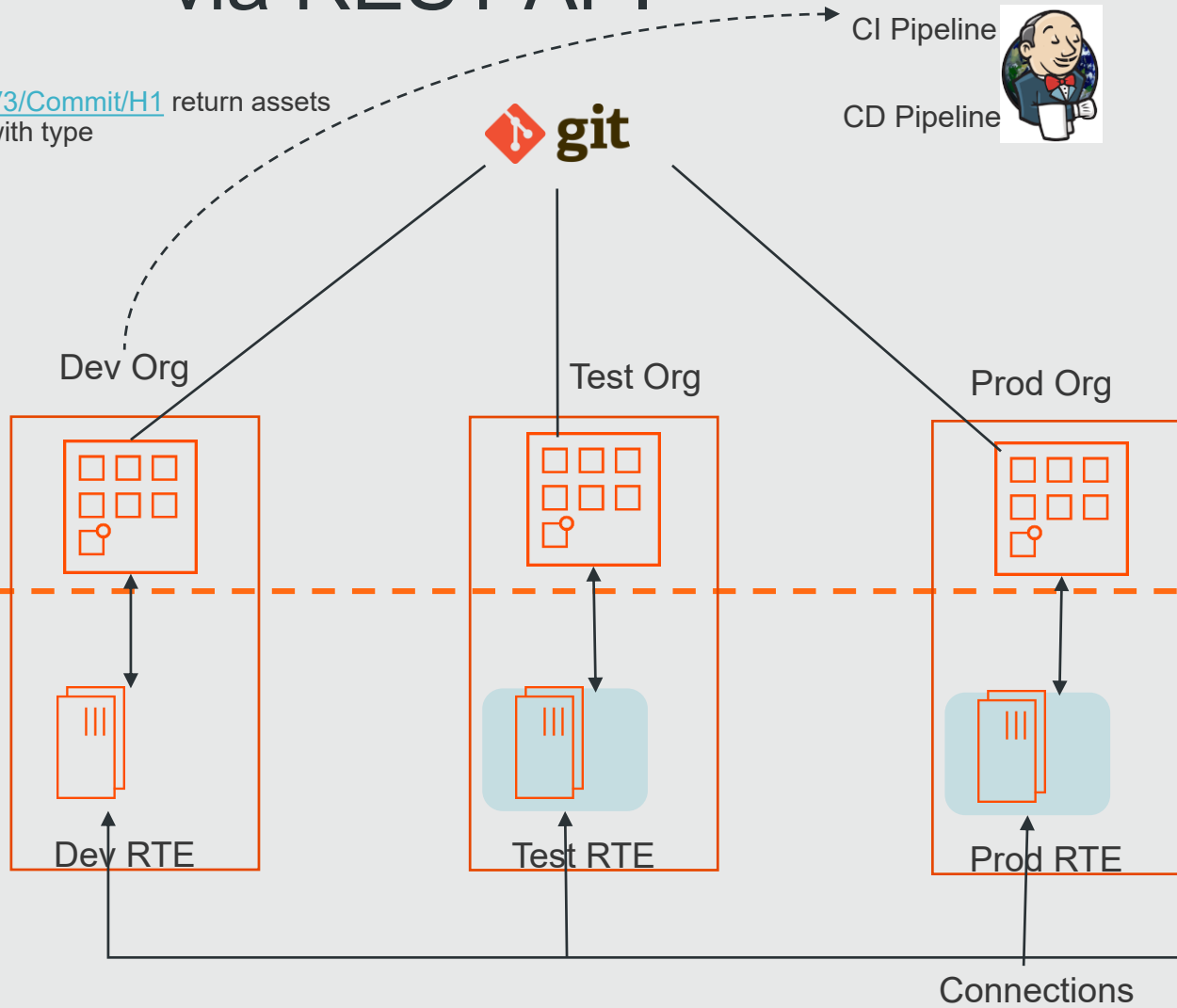


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# Step 1: c. CI retrieves list of assets for H1 via REST API



V3/Commit/H1 return assets with type



Cloud Sources/Targets

SaaS

Customer Infrastructure

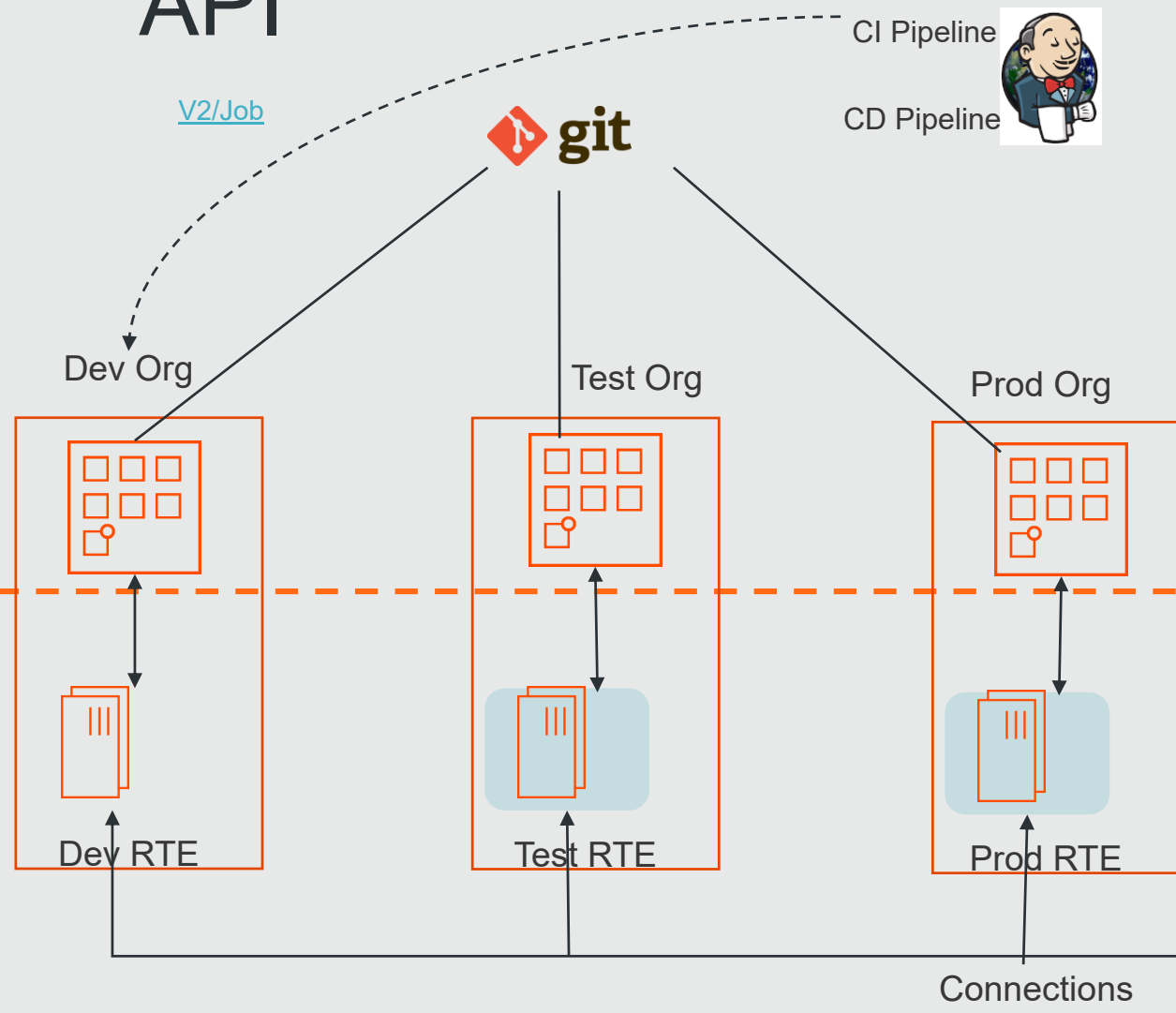
On-Premise Sources/Targets



Connections

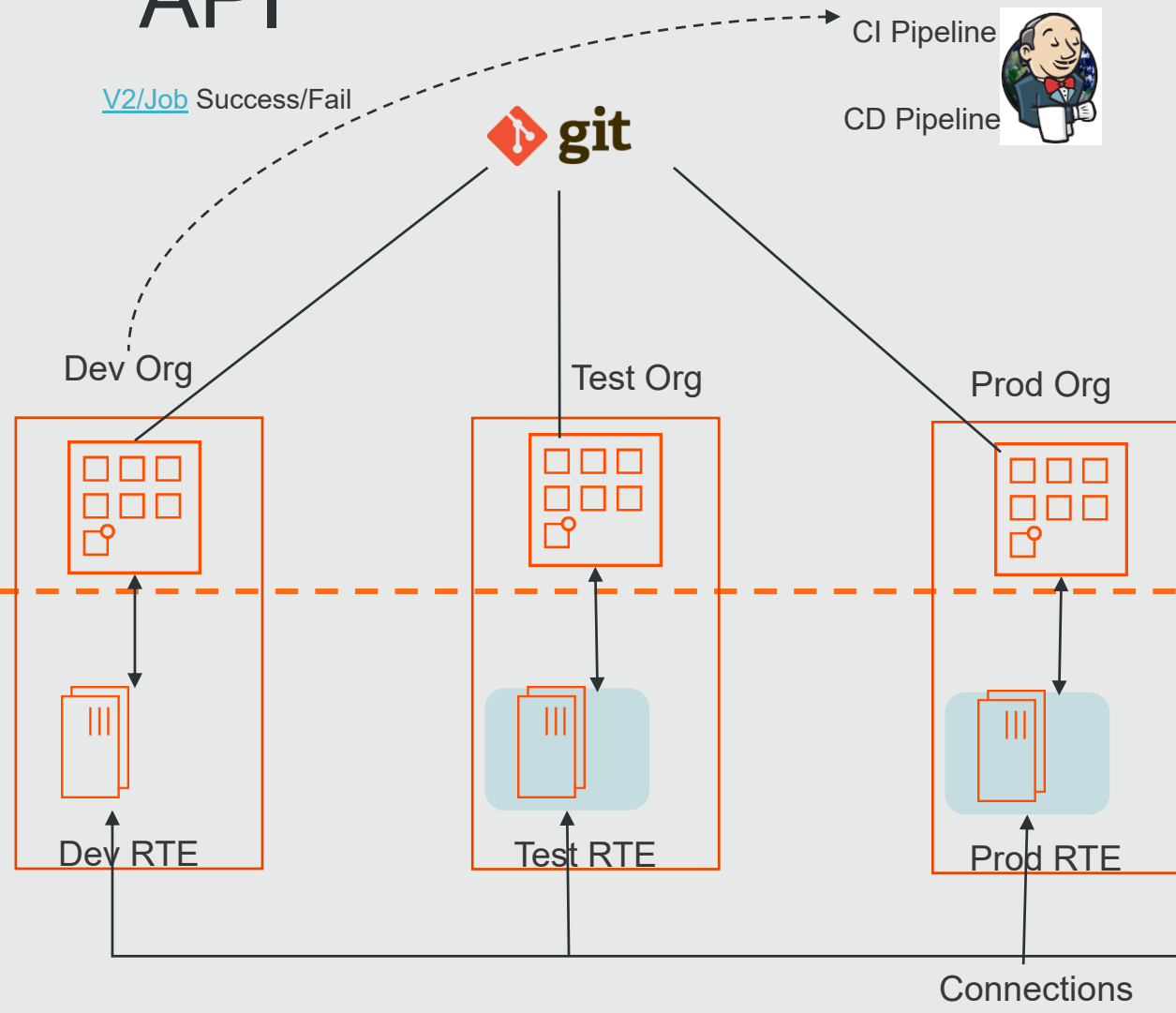


# Step 1: d. CI executes tests via REST API





# Step 1: d. CI executes tests via REST API



Cloud Sources/Targets

SaaS

Customer Infrastructure

On-Premise Sources/Targets

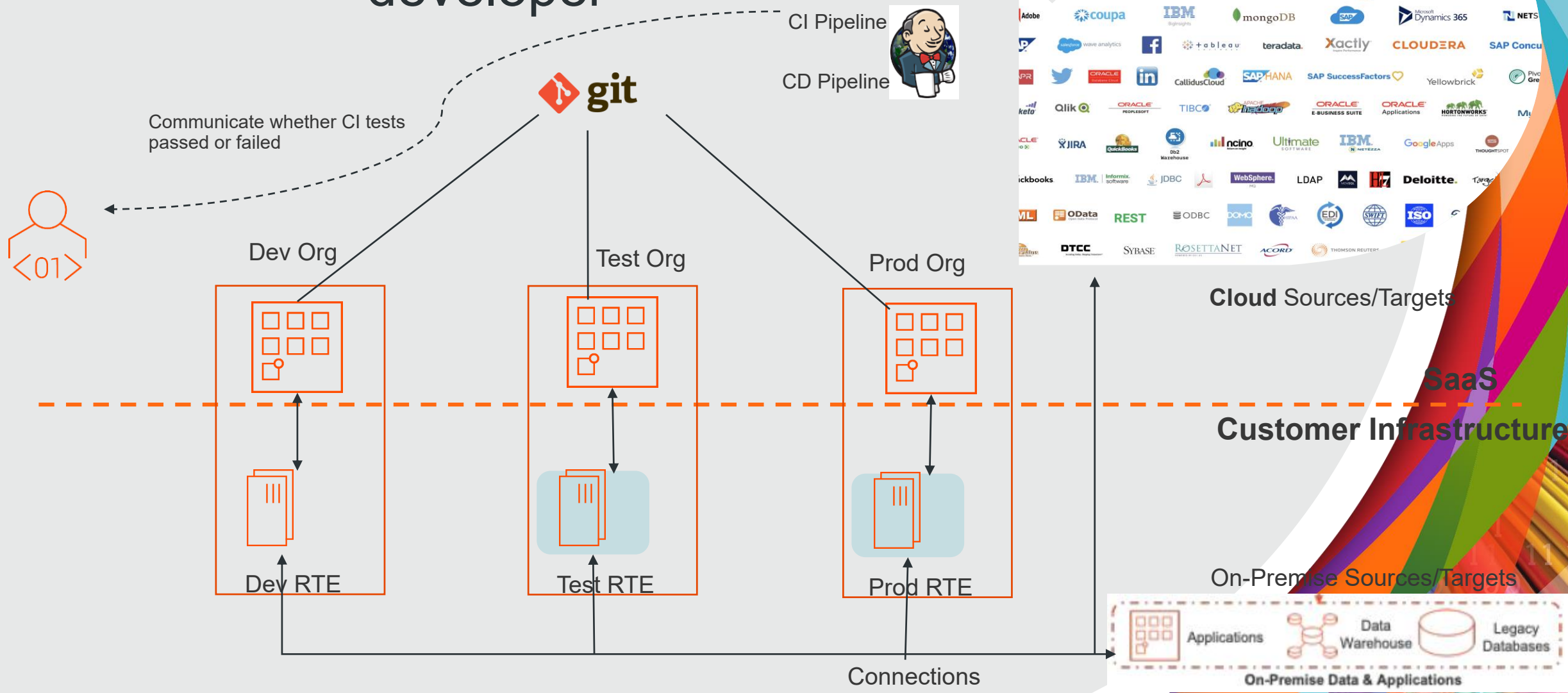
On-Premise Data & Applications

Applications

Data Warehouse

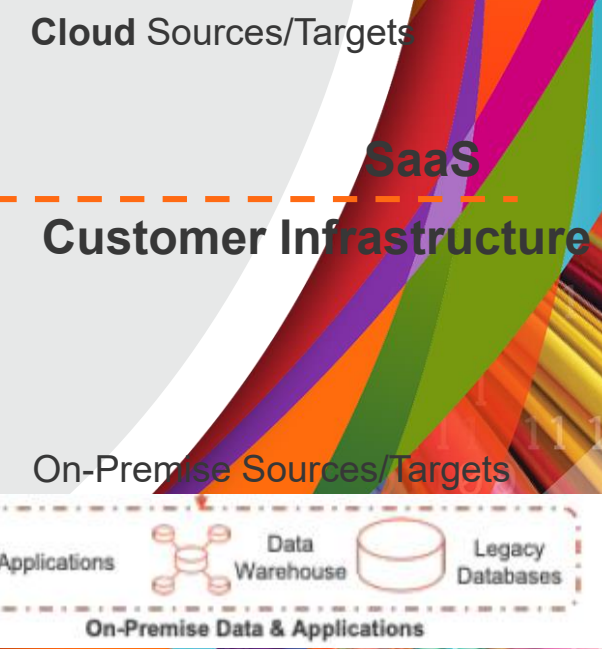
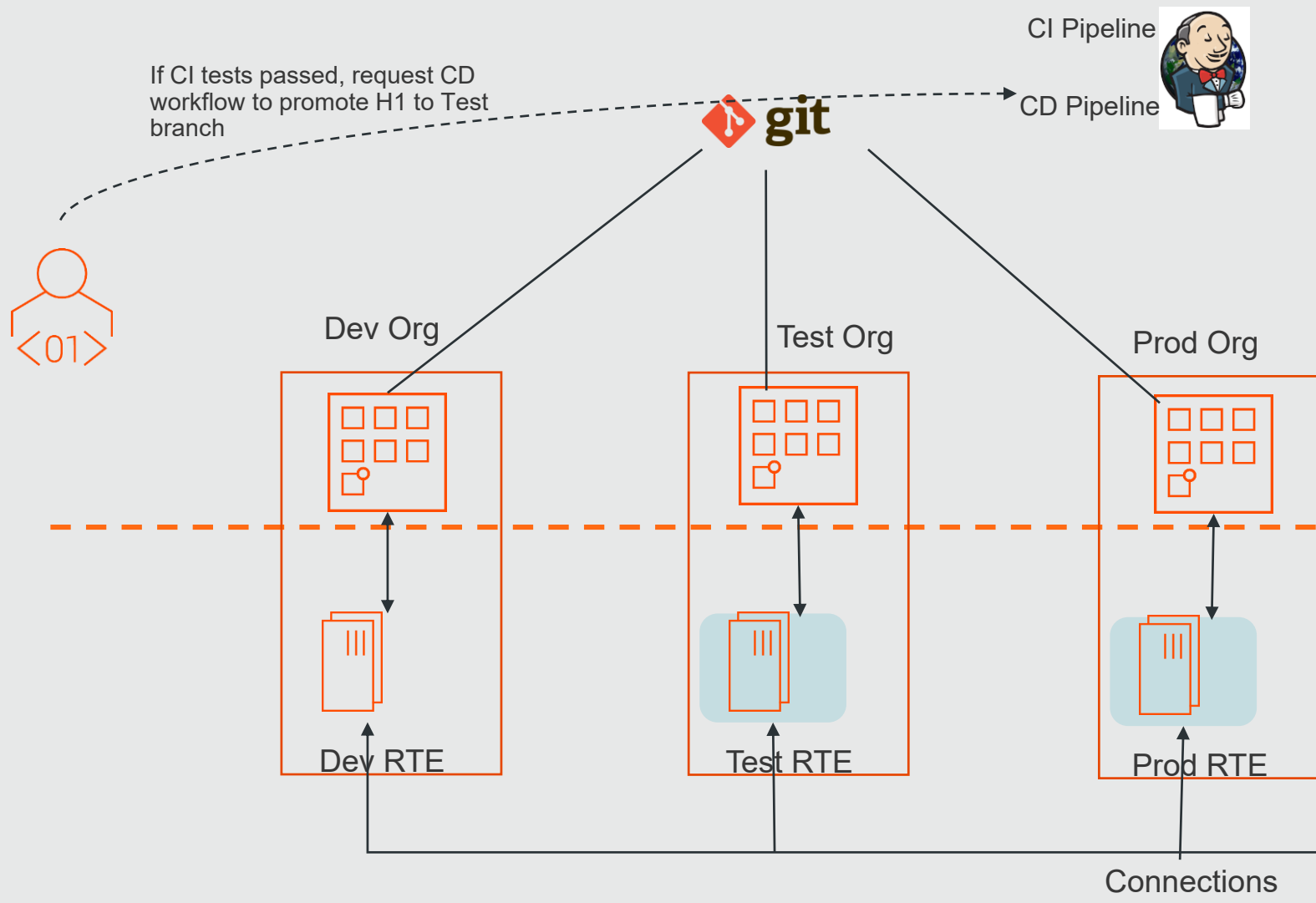
Legacy Databases

# Step 1: e. CI send status notification to developer

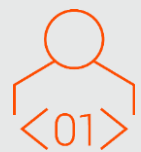
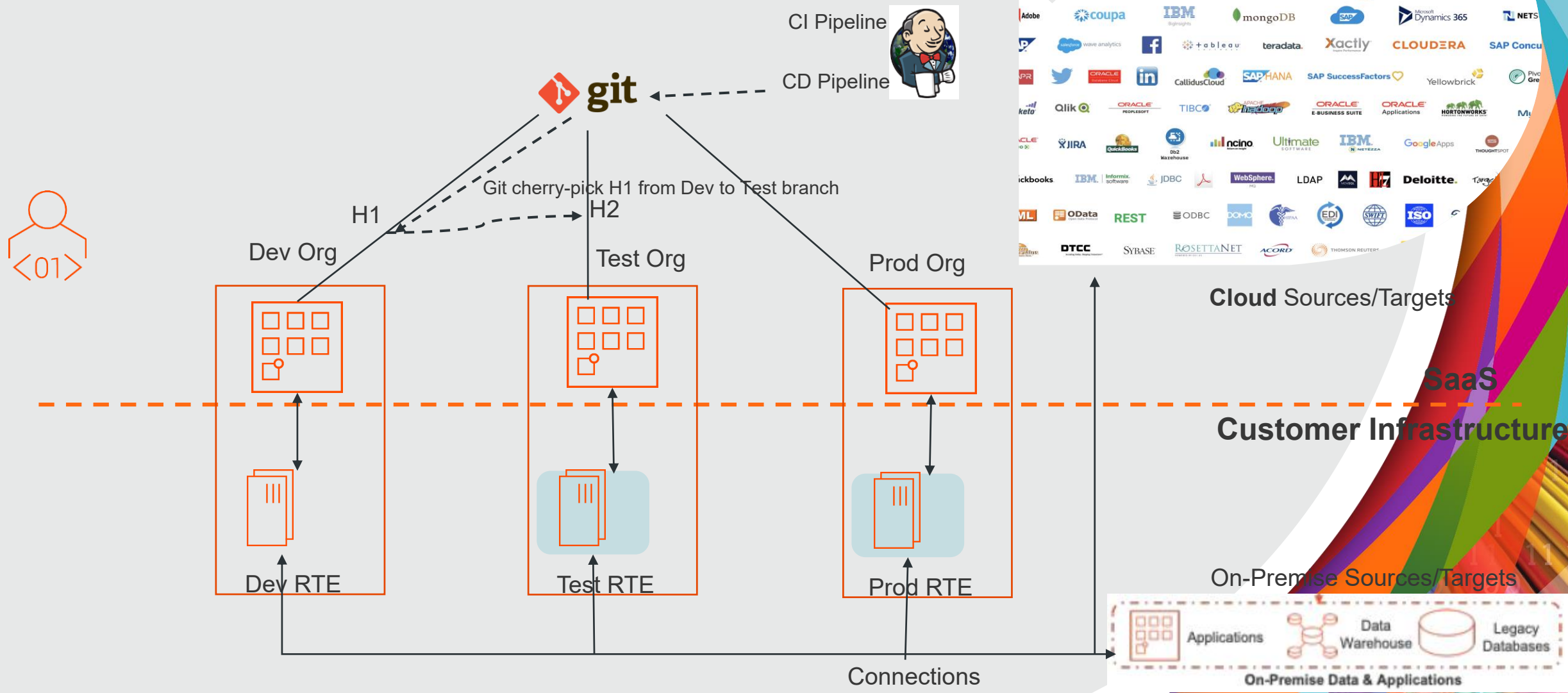




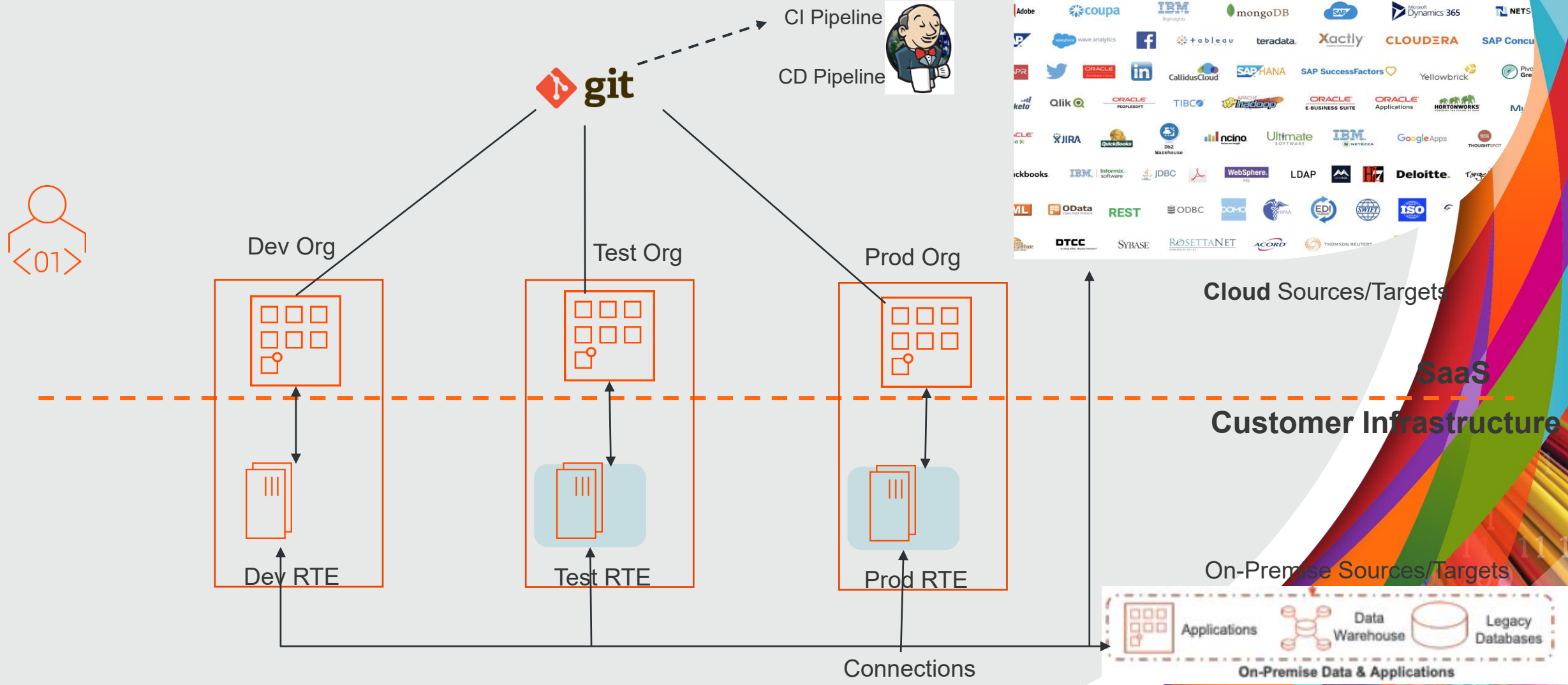
# Step 2: a. Developer requests promotion of H1 to next Environment



# Step 2: b. Git cherry-pick from H1 to Test Branch

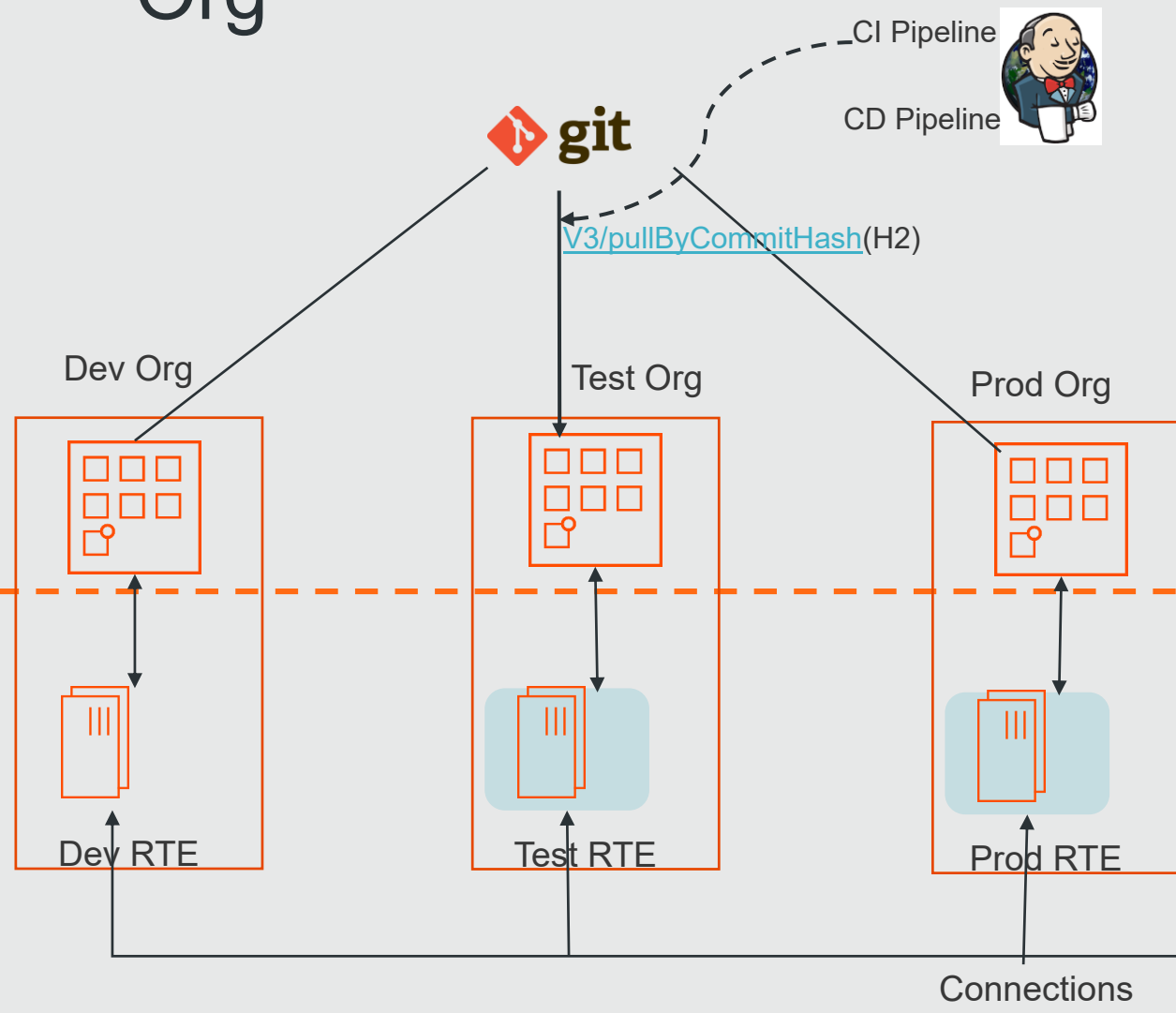


# Step 2: c. Git passes hash H2 via webhook to CI Pipeline

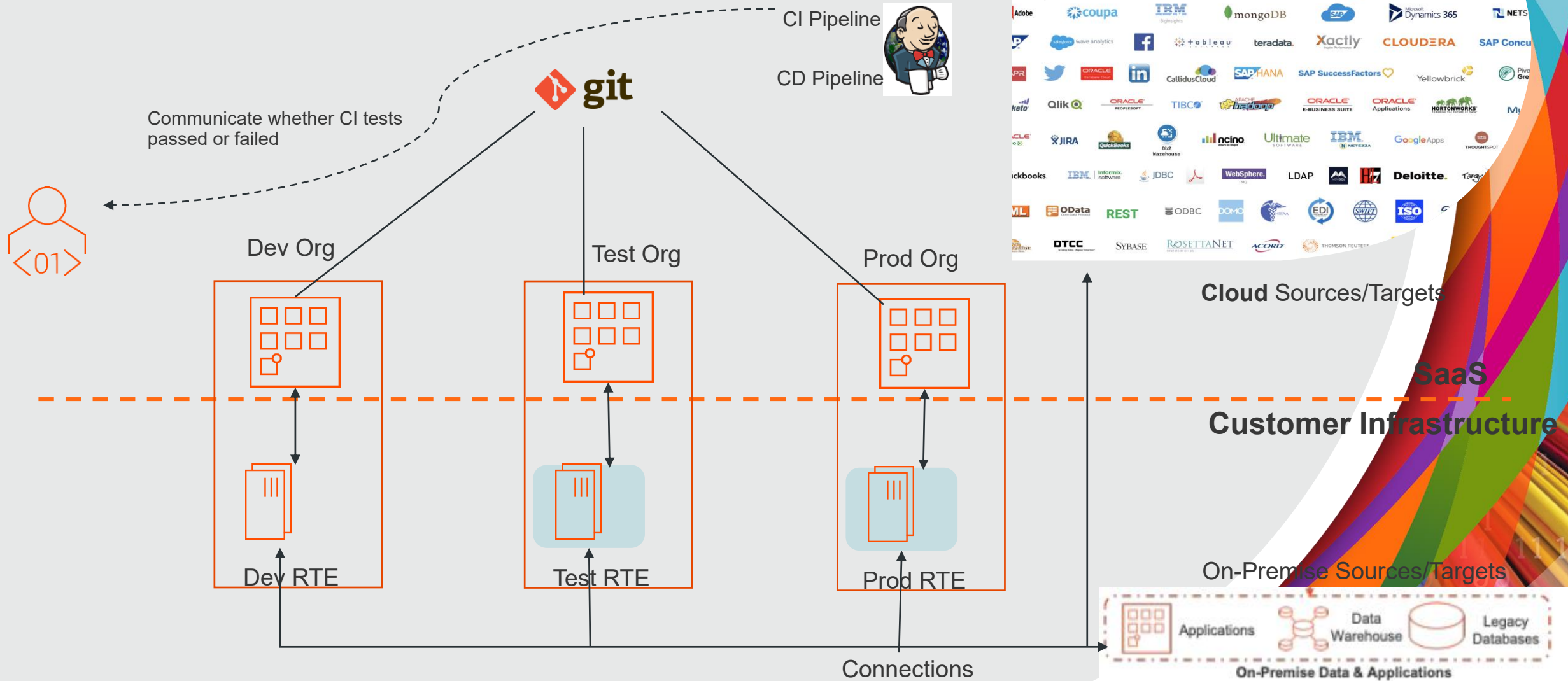




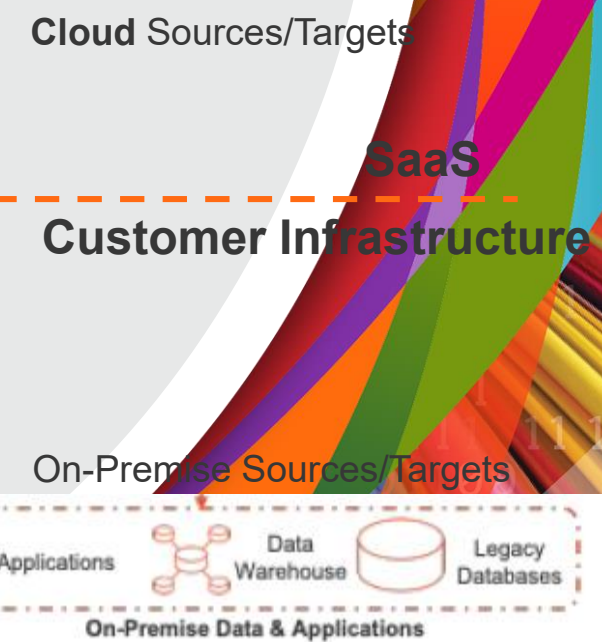
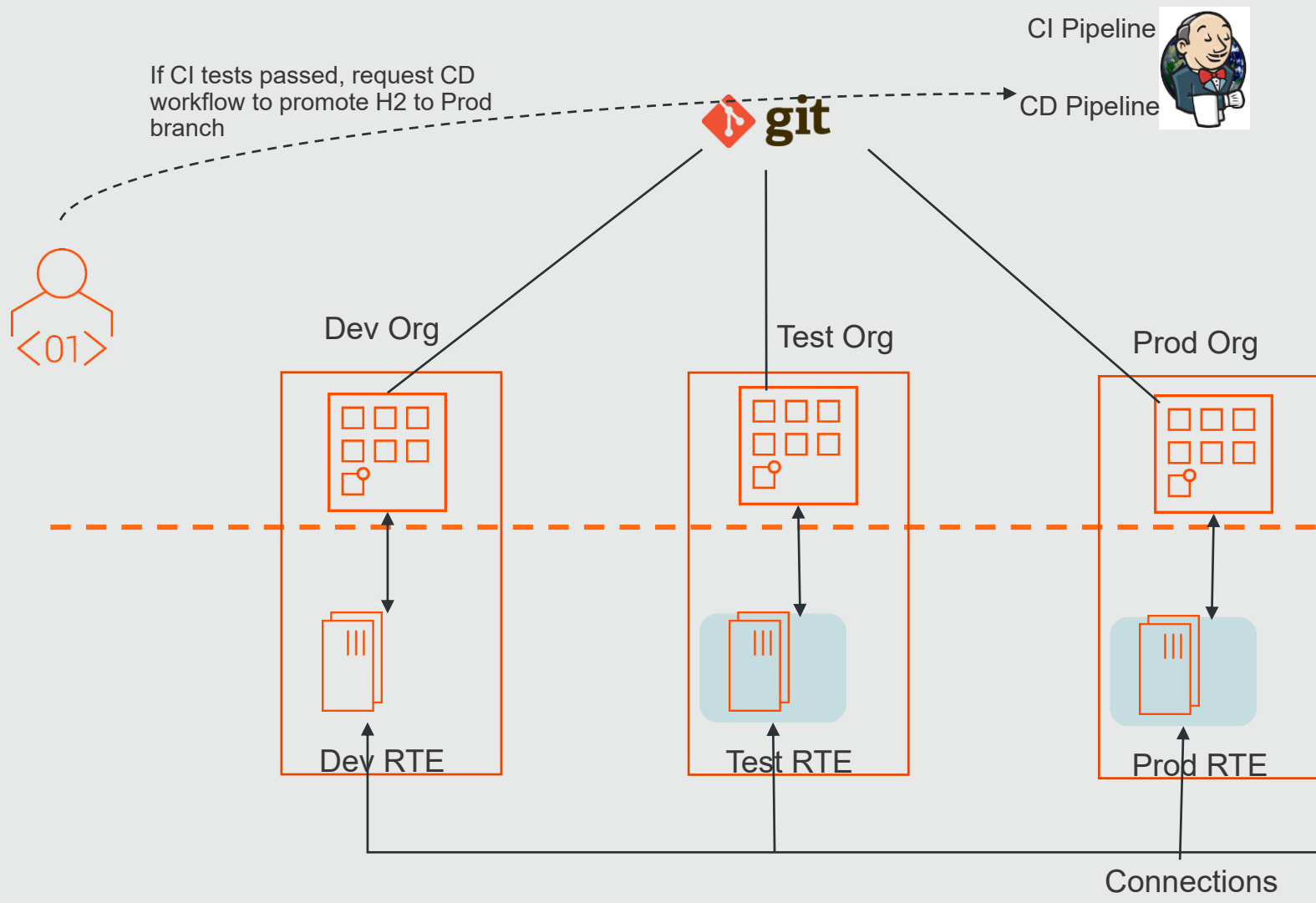
# Step 2: d. Pull by Commit Hash H2 into Test Org



# Step 2: e. CI repeats steps 1c, 1d, 1e in Test Environment

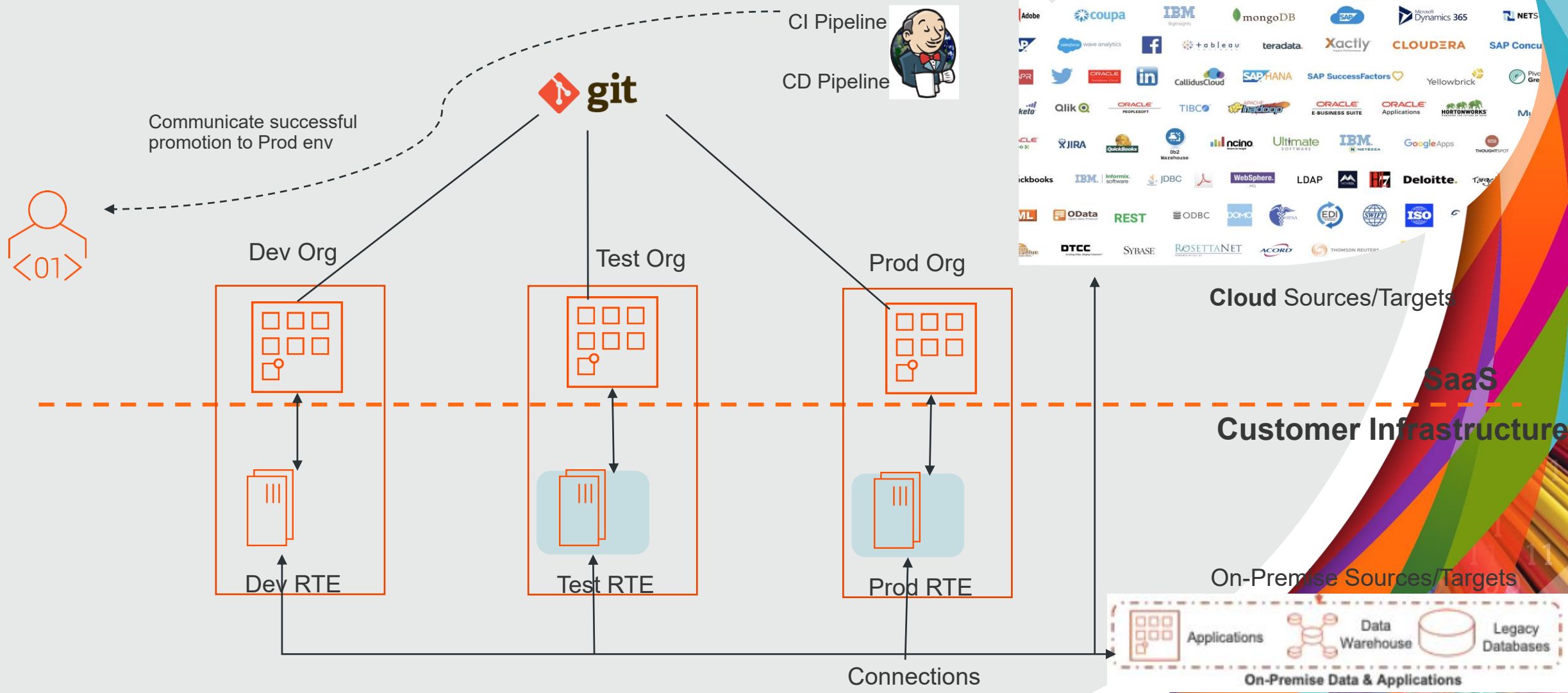


# Step 3: a. Developer requests promotion of H2 to next/ Prod Env



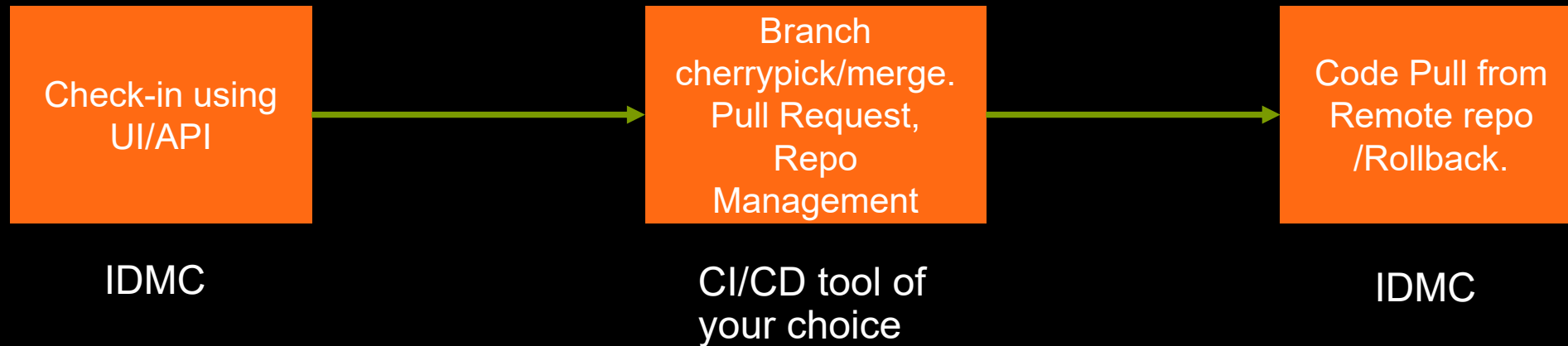


# Step 3: c. CI send final status notification to developer





# IDMC's role in the process



# Pipeline Sample Structure

- Get Latest commits after last successful build in dev branch
- Cherrypick/Merge into QA branch
- Call pullbycommit to pull latest code from QA git branch to QA IDMC org.
- Repeat process for QA -> Prod.(or other stage orgs/branches in between)

# Guidelines/Best Practices.

- Dependencies must be managed while pulling code. For eg, pulling a mapping task first time should have
- the mapping pulled in too to avoid errors.
- One-time Bulk Publishing of CAI and taskflows would be required after code is pulled in.
- Cloud Mass Ingestion: Un deploy and pull the latest code, redeploy.
- Code review must be done in the UI for a commit/Pull request for eg, as this is a no code environment.
- Agents and connections must be setup as a pre req before code pull
  - . Pull API has options to change the reference of connections and agents coming in from the source.

# New Features from April 2024

- Bit Bucket Cloud support.
- Project Level Repositories.



# Demo

Where data & AI come to **LIFE**