

# IICS CICD pipelines with GitHub and Jenkins

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# Agenda

1 Introduction

2 IICS CICD overview

3 Supported platform details

4 Rest api endpoint for CICD

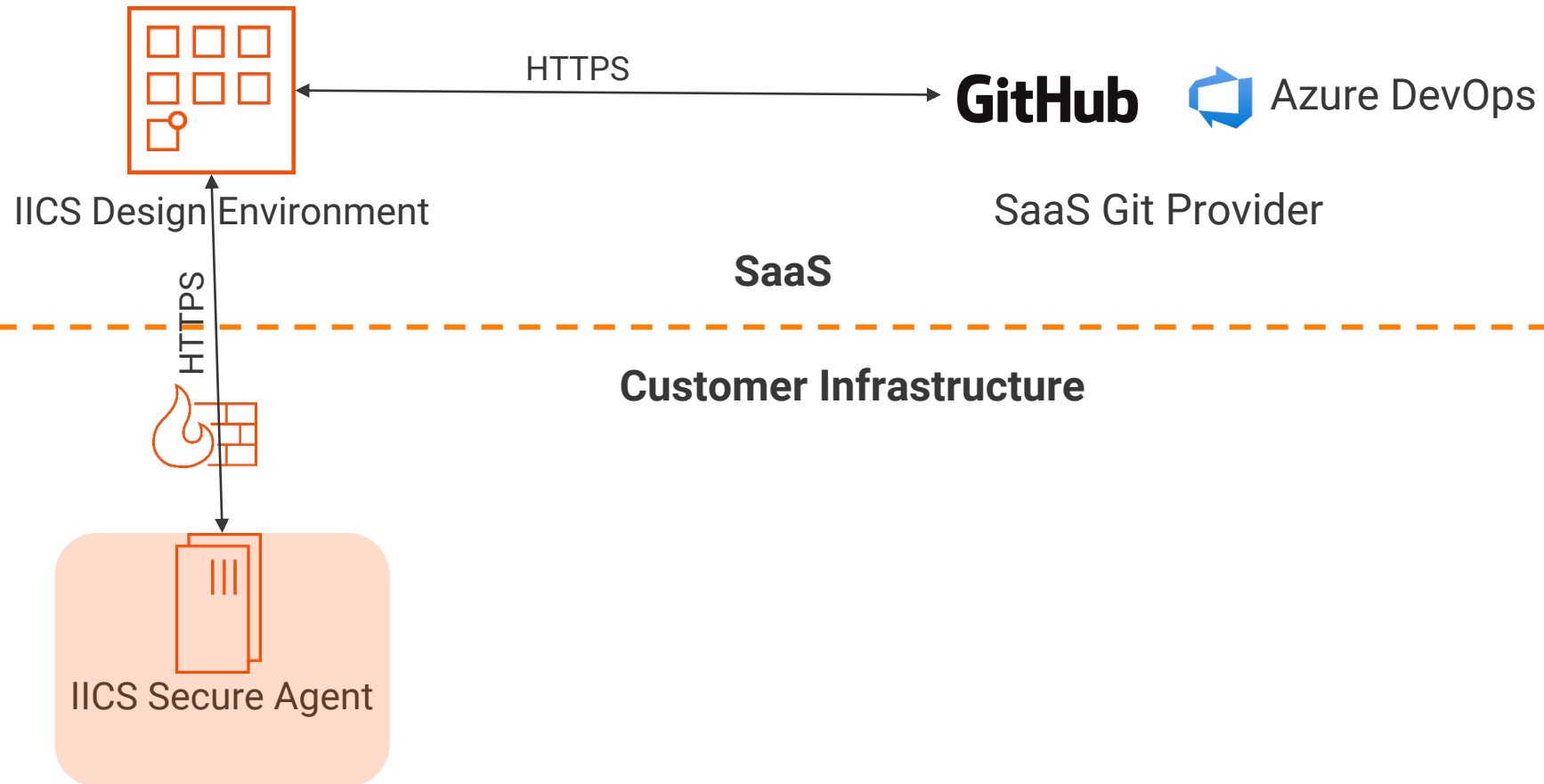
5 Demo

6 Q & A

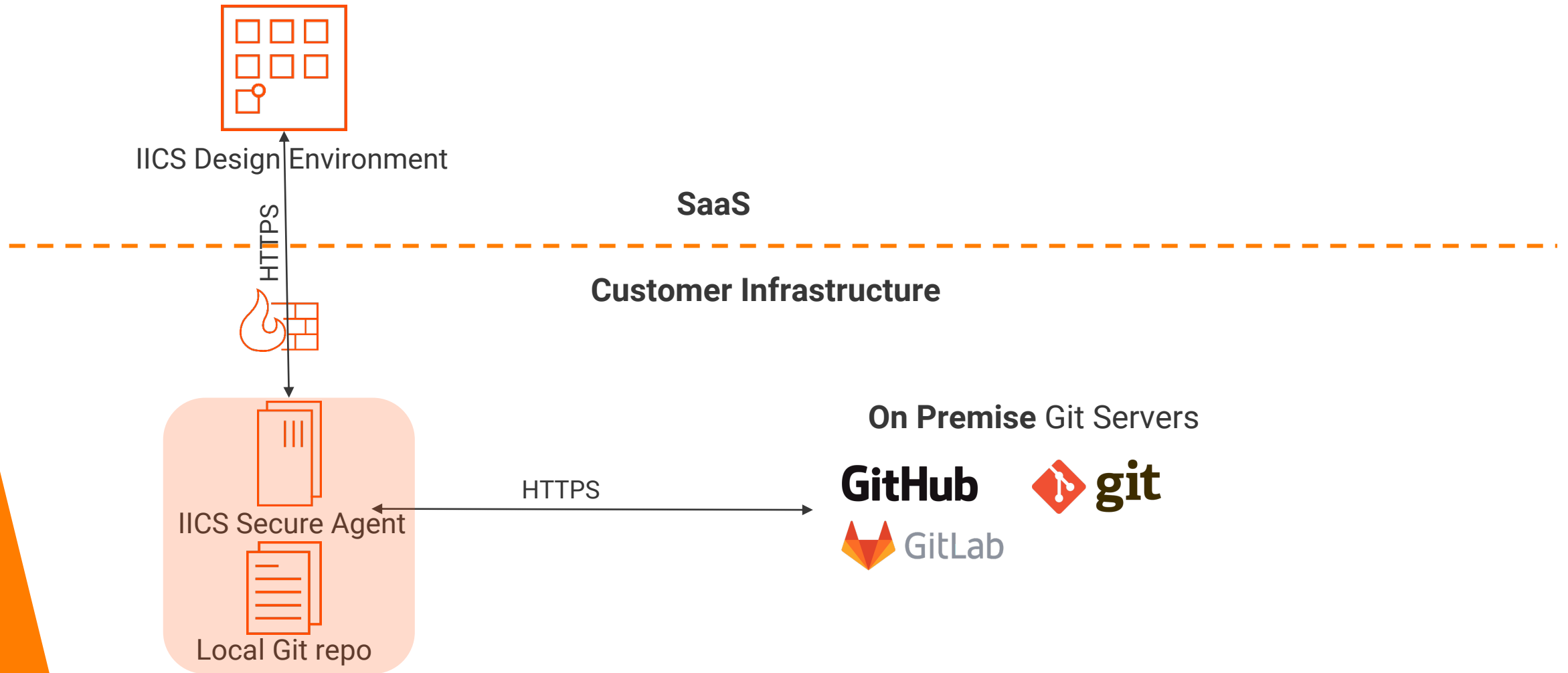
# IICS-Git: Supported Integrations

Product	SaaS	Self-hosted
<b>GitHub</b>	✓	✓
 GitLab		✓
 Bitbucket		✓
 Azure DevOps	✓	
 <b>git</b> Generic repo	N/A	✓

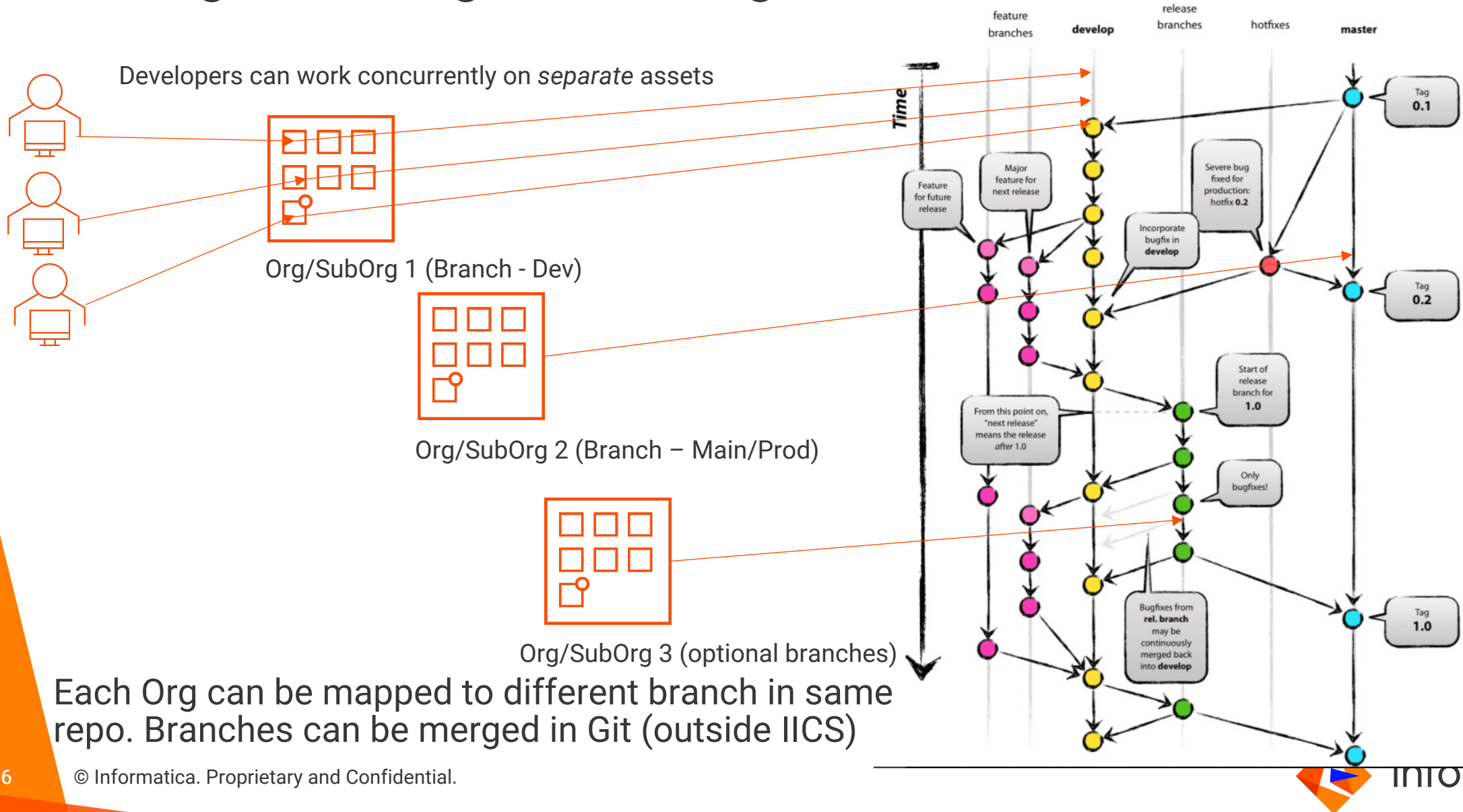
# IICS-Git: SaaS Git repo integration



# IICS-Git: On-premise Git repo integration



# IICS Org-Git integration: Org Level Branch



# Recent API enhancements

- Source Control integration [APIs](#)

- pull
- pullByCommitHash
- checkout
- undoCheckout
- checkin
- commit
- commitHistory
- sourceControlAction
- Pull status

# IICS Orgs - CI/CD with Git + Jenkins



## Multibranch Pipeline

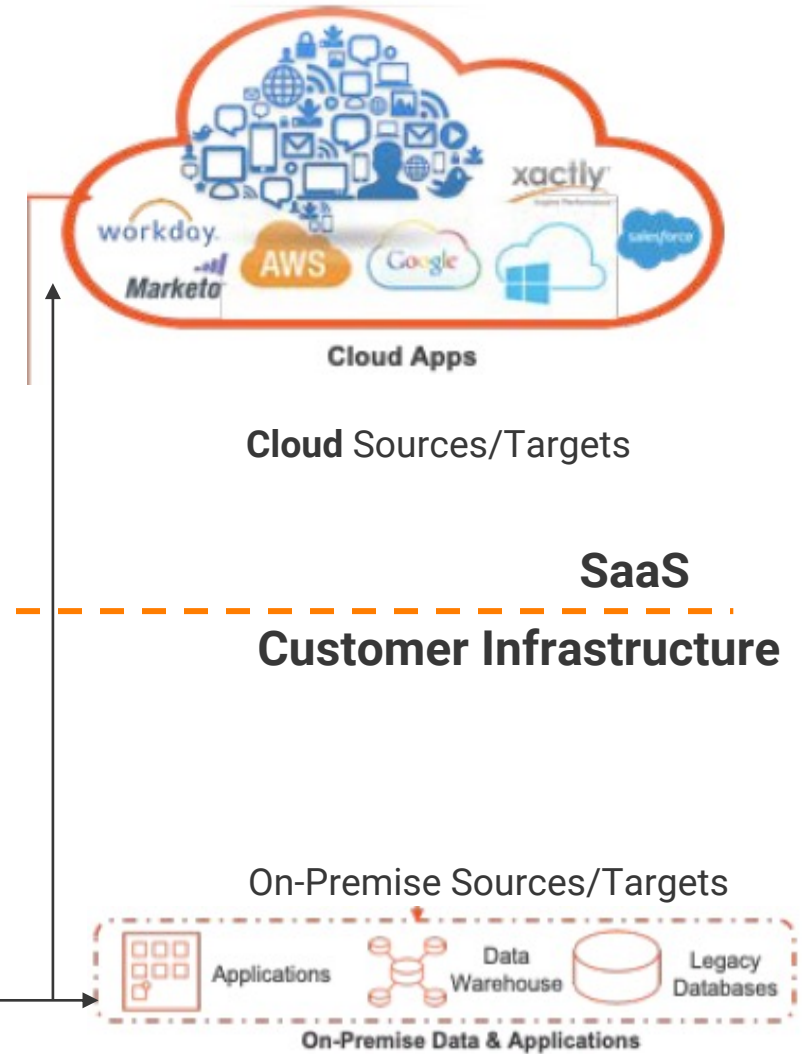
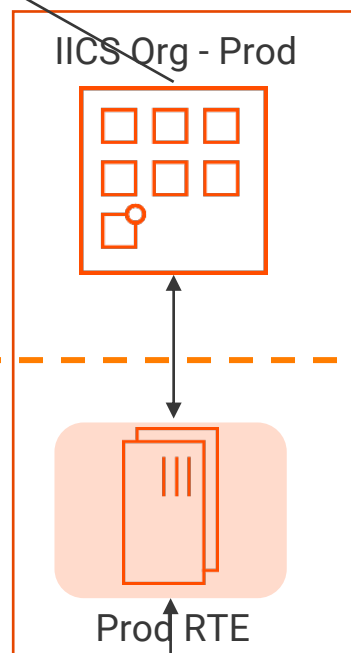
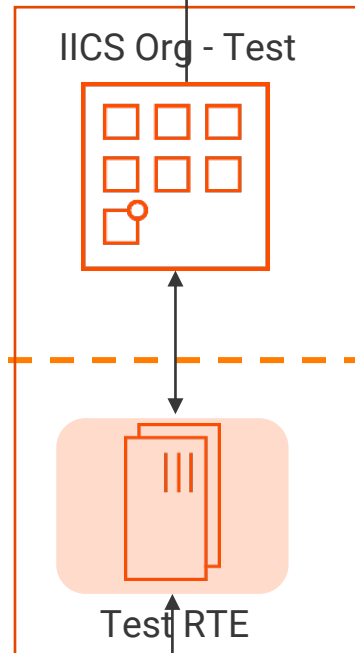
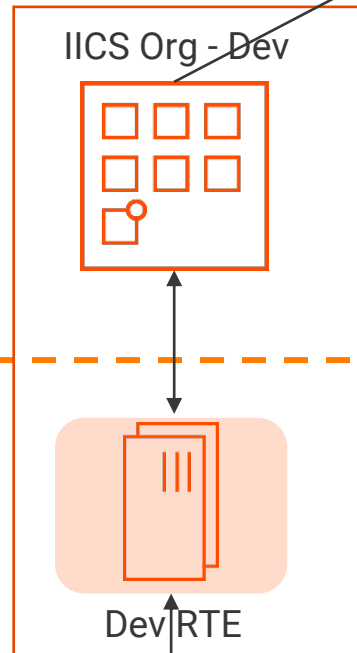
Creates a set of Pipeline projects according to detected branches in one SCM repository.



Dev branch

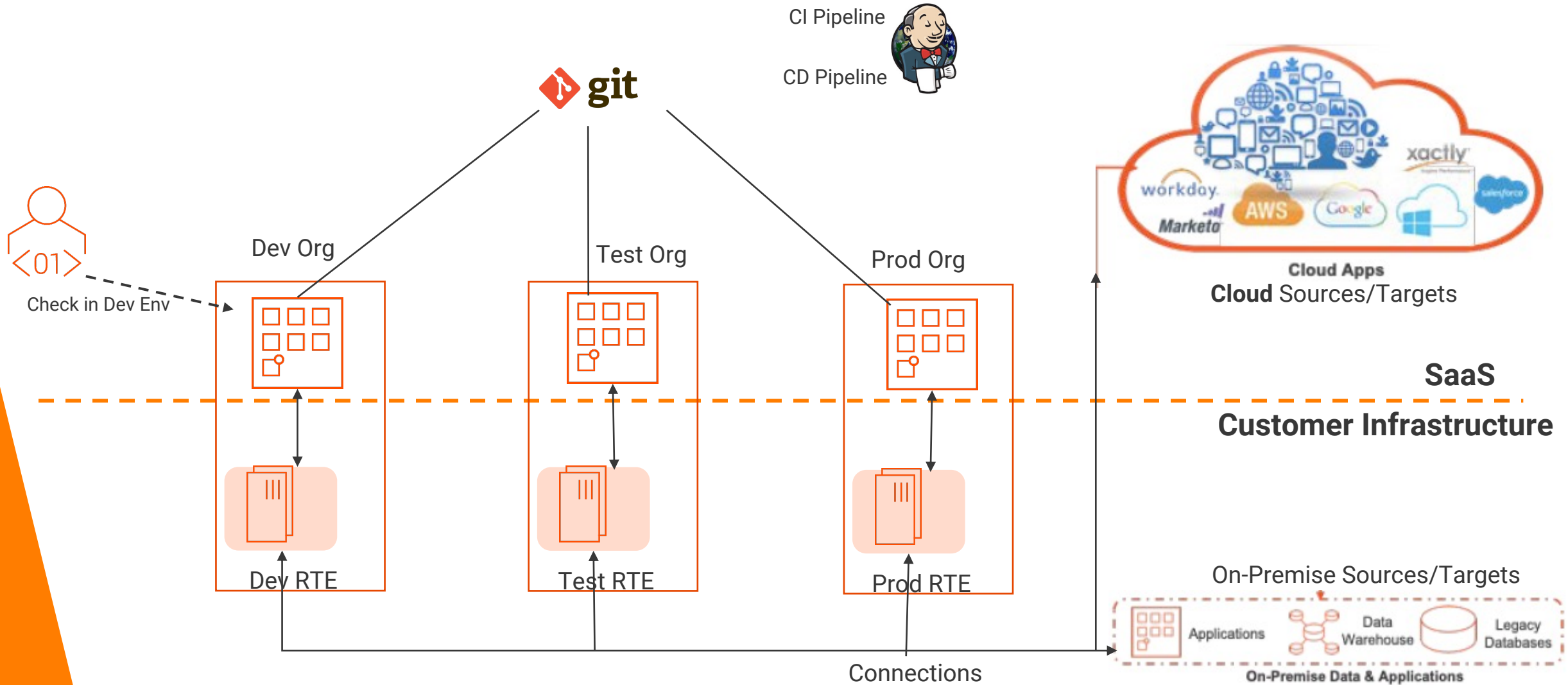
Test branch

Prod branch

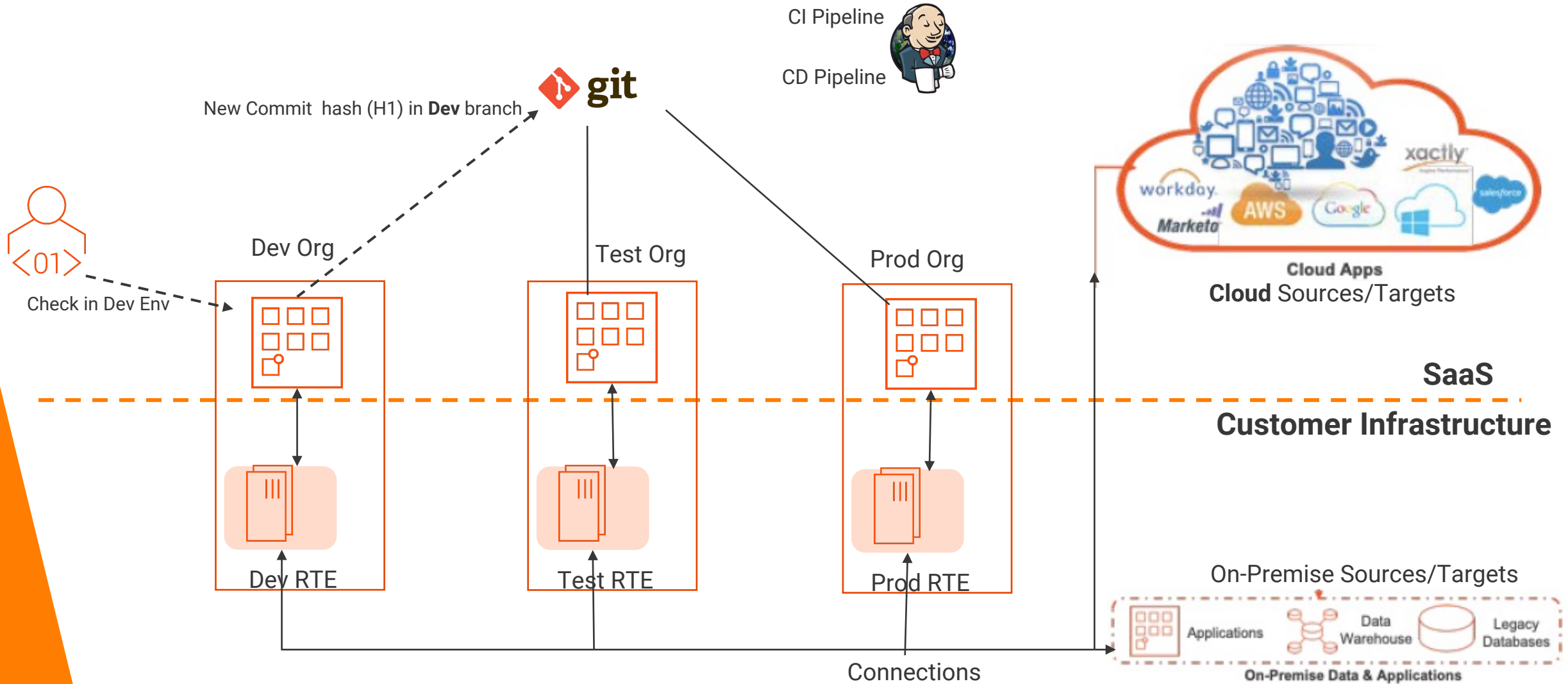


Connections

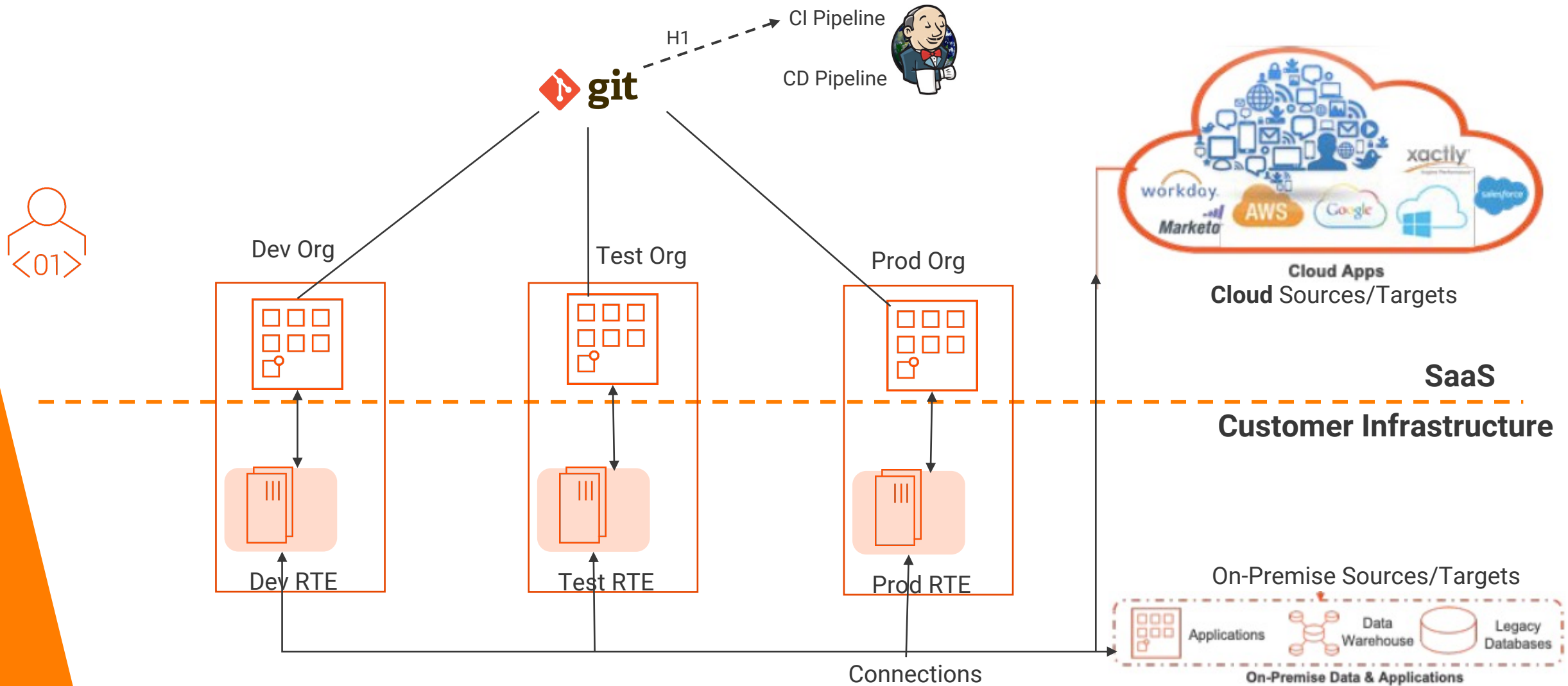
# Step 1: a. Developer checks in revisions to Dev branch



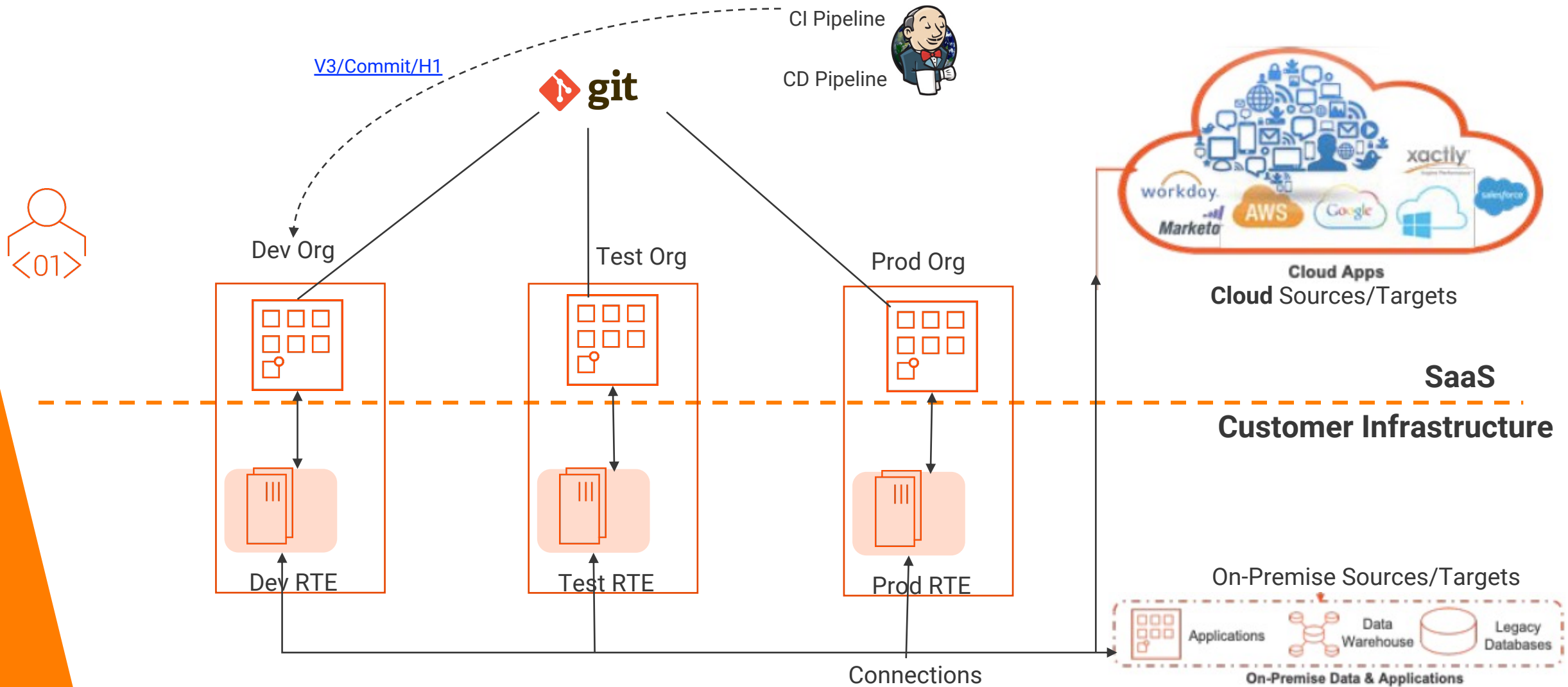
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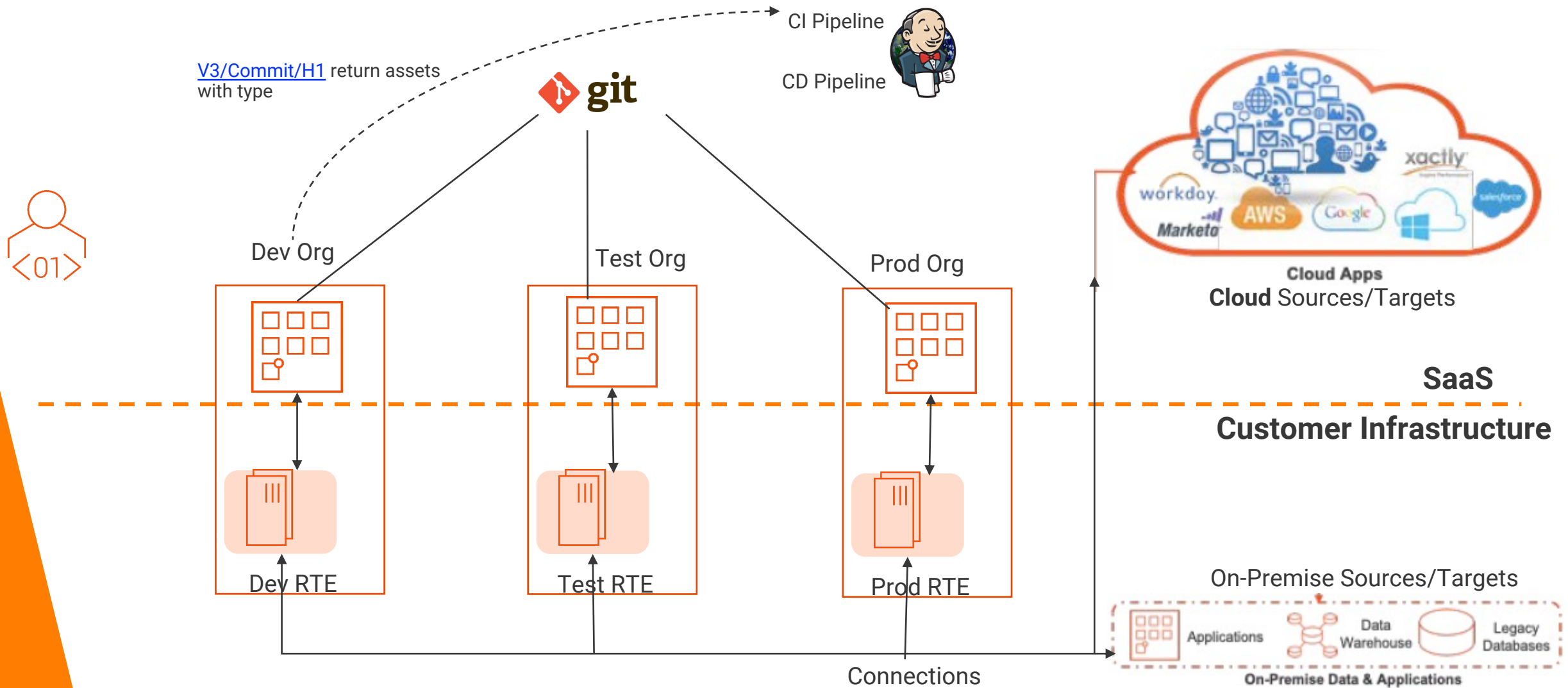
# Step 1: b. Git passes hash H1 via webhook to CI Pipeline



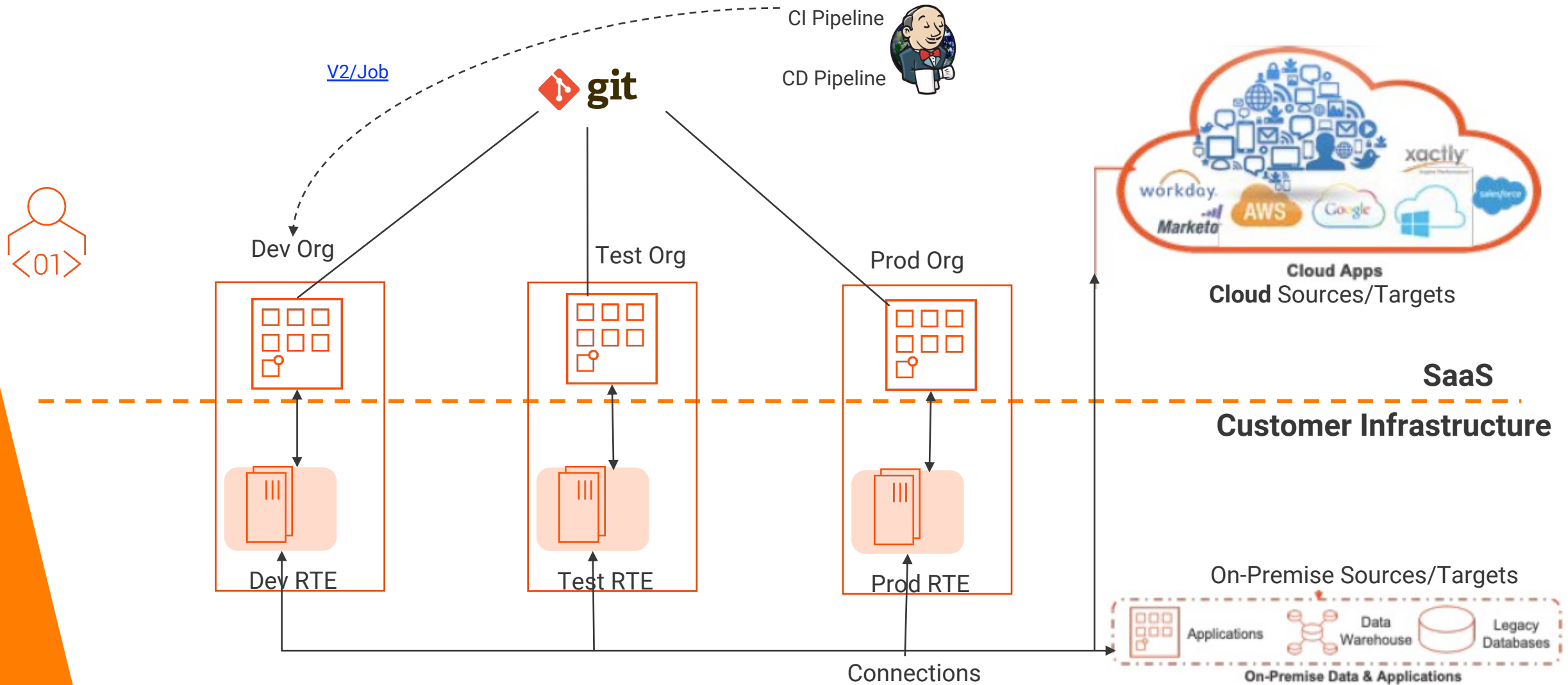
# Step 1: c. CI retrieves list of assets for H1 via REST API



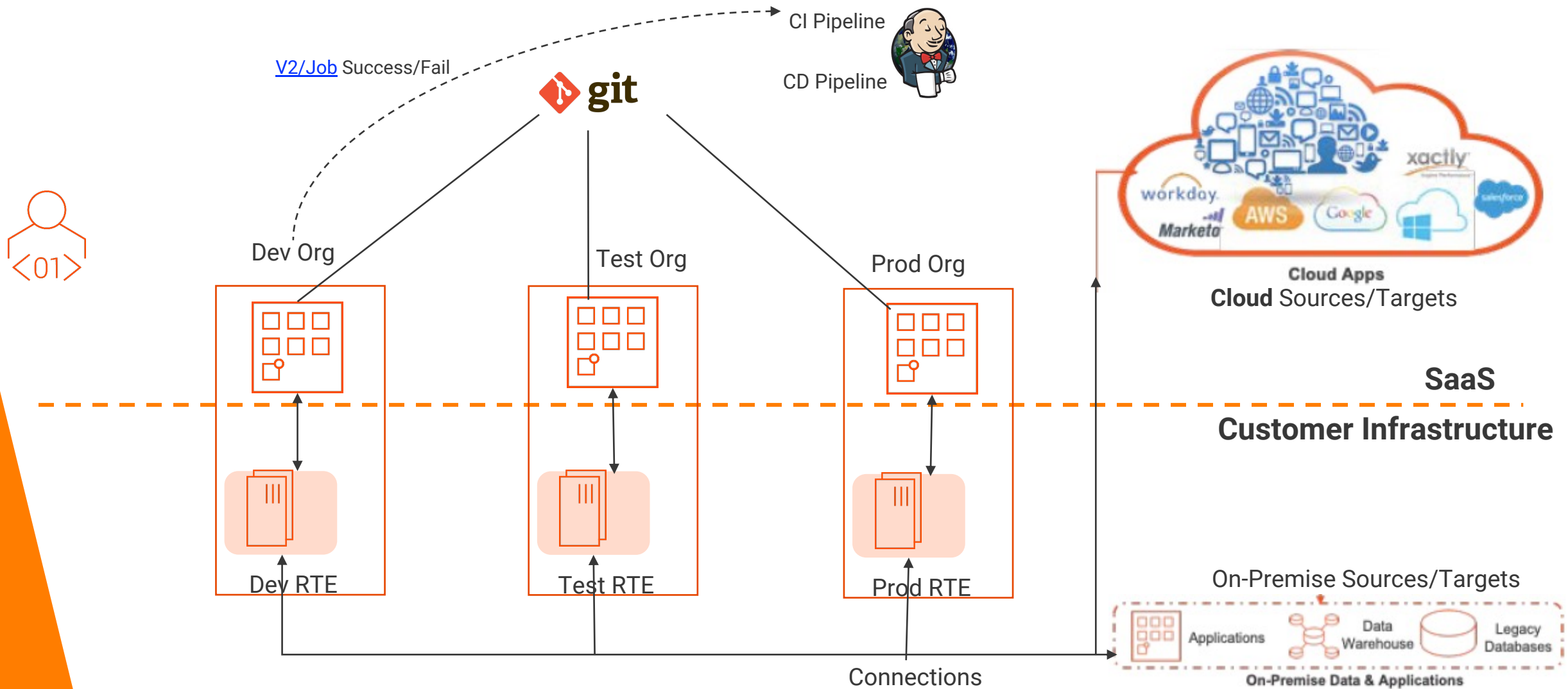
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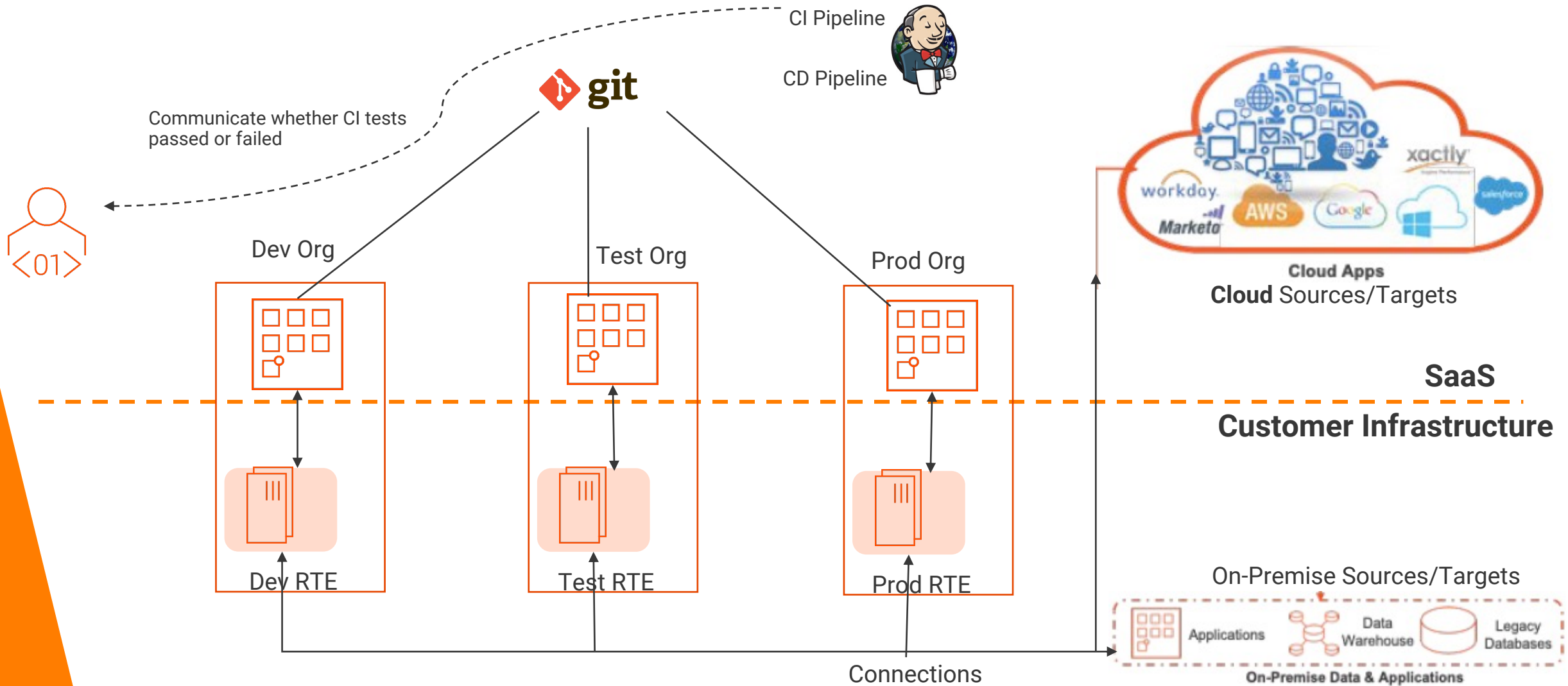
# Step 1: d. CI executes tests via REST API



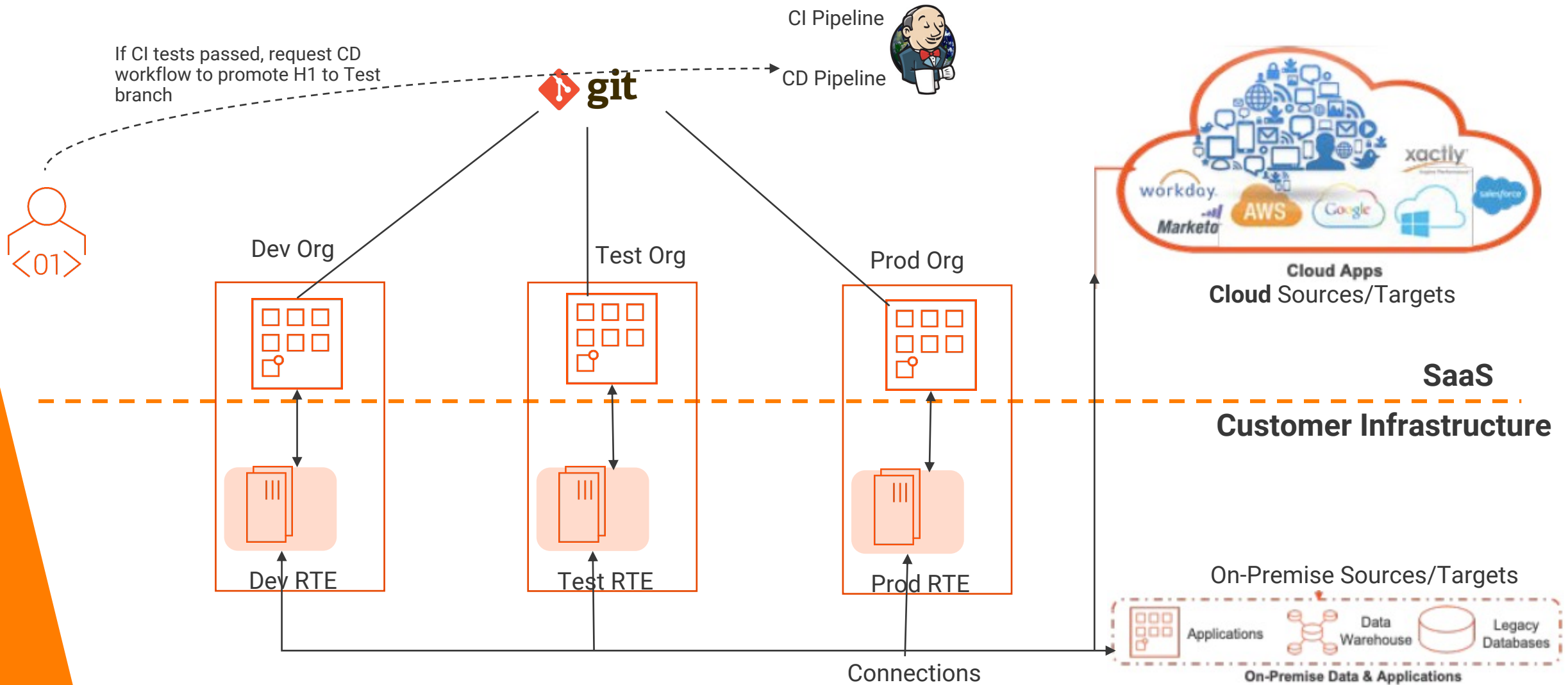
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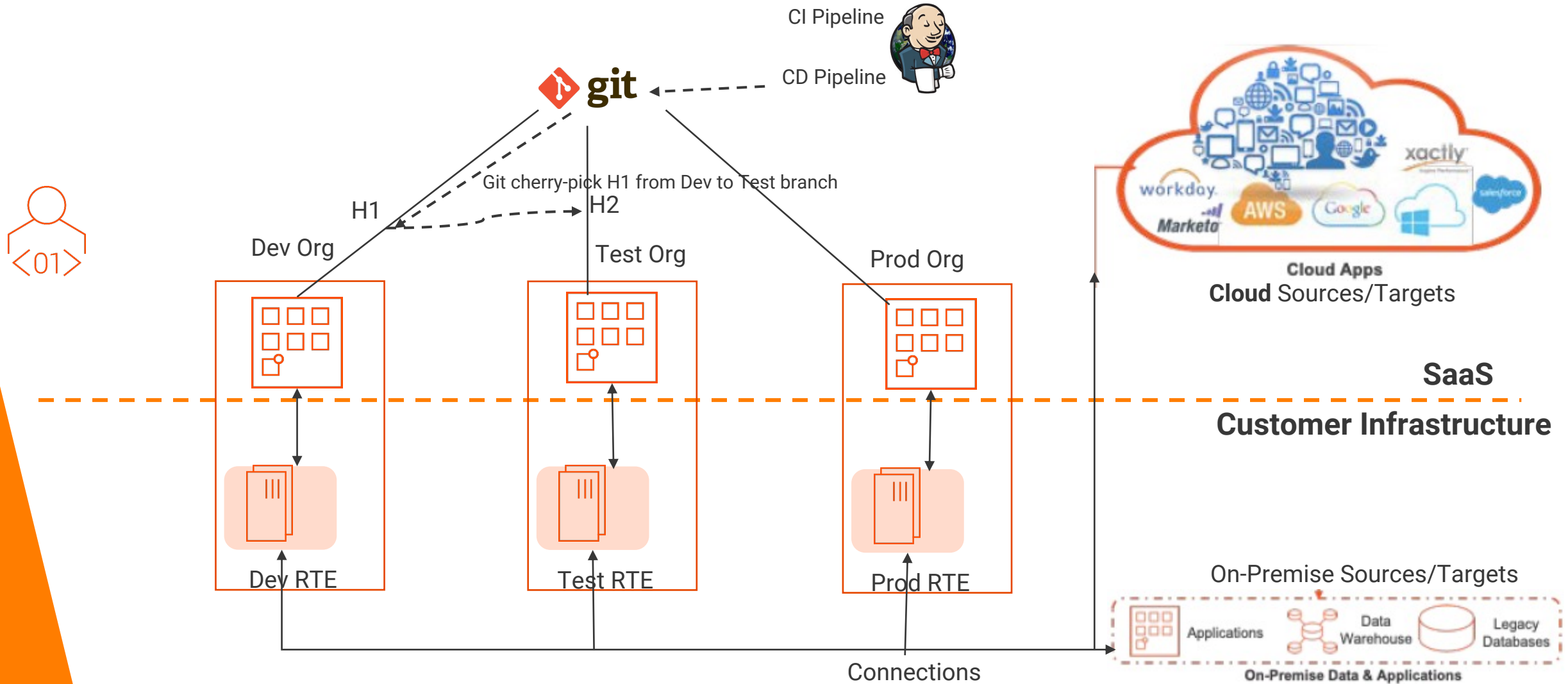
# Step 1: e. CI send status notification to developer



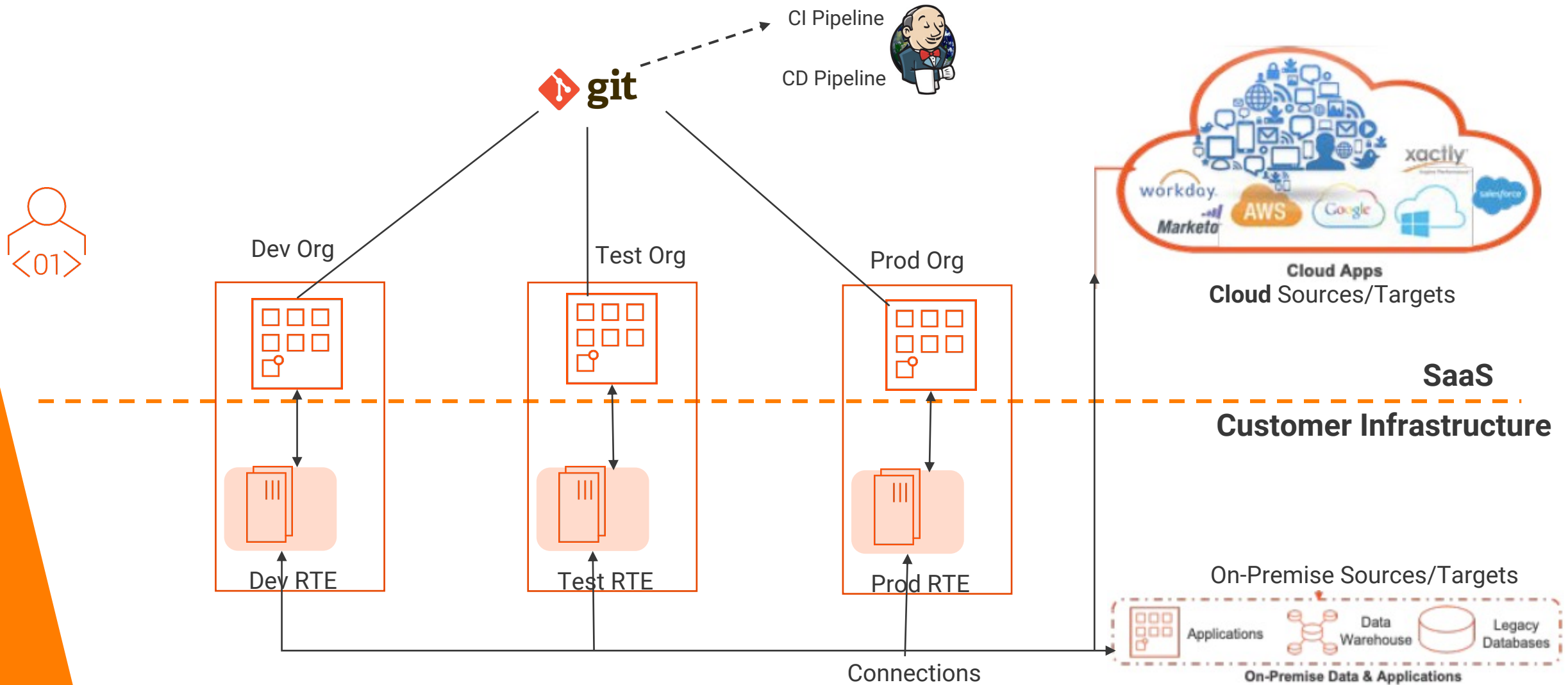
# Step 2: a. Developer requests promotion of H1 to next Environment



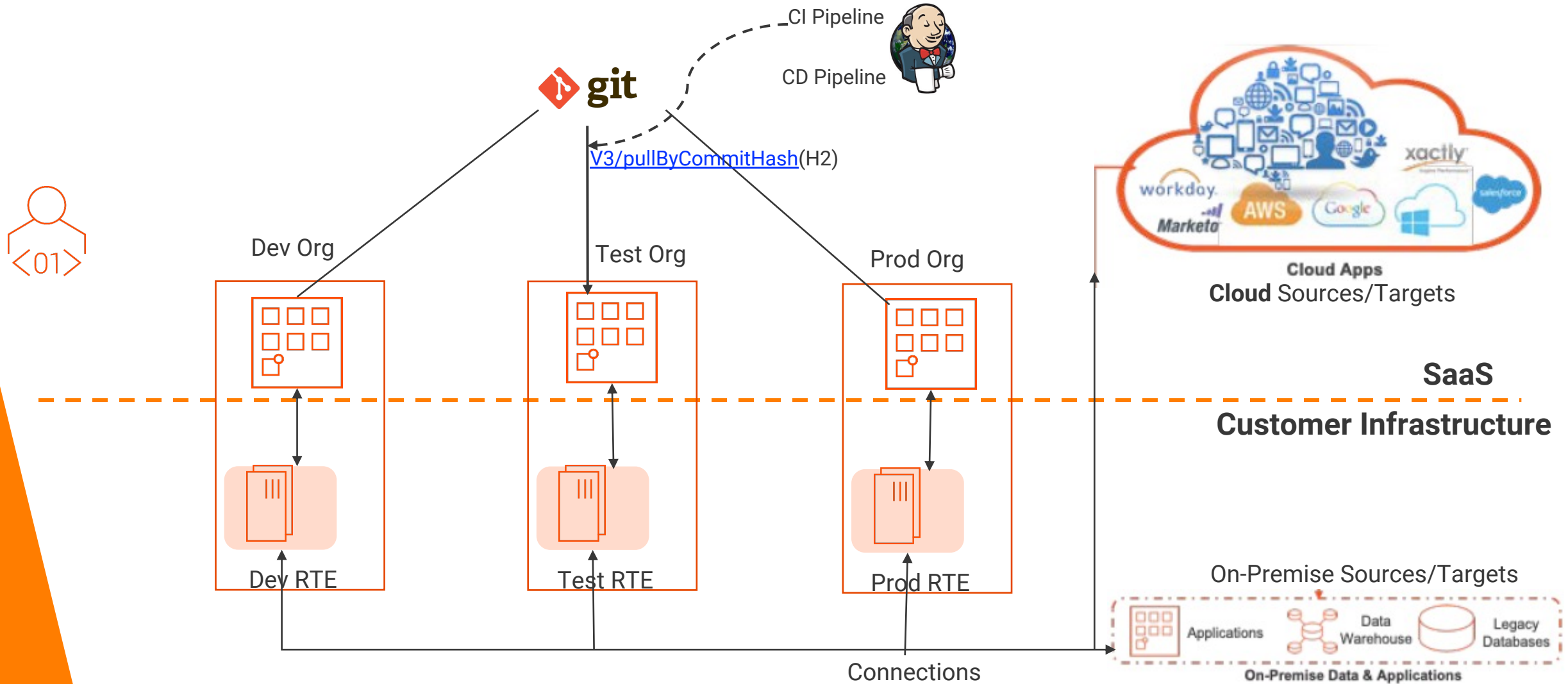
# Step 2: b. Git cherry-pick from H1 to Test Branch



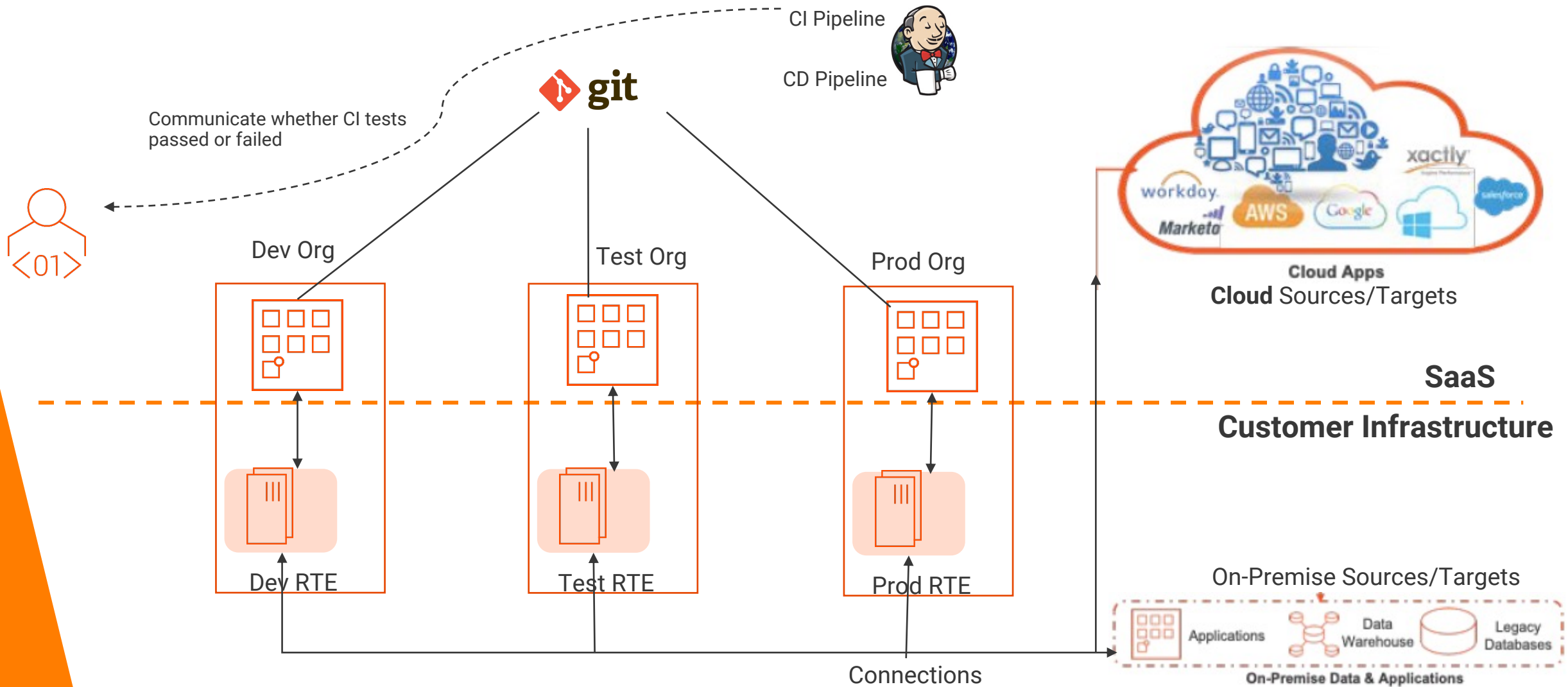
# Step 2: c. Git passes hash H2 via webhook to CI Pipeline



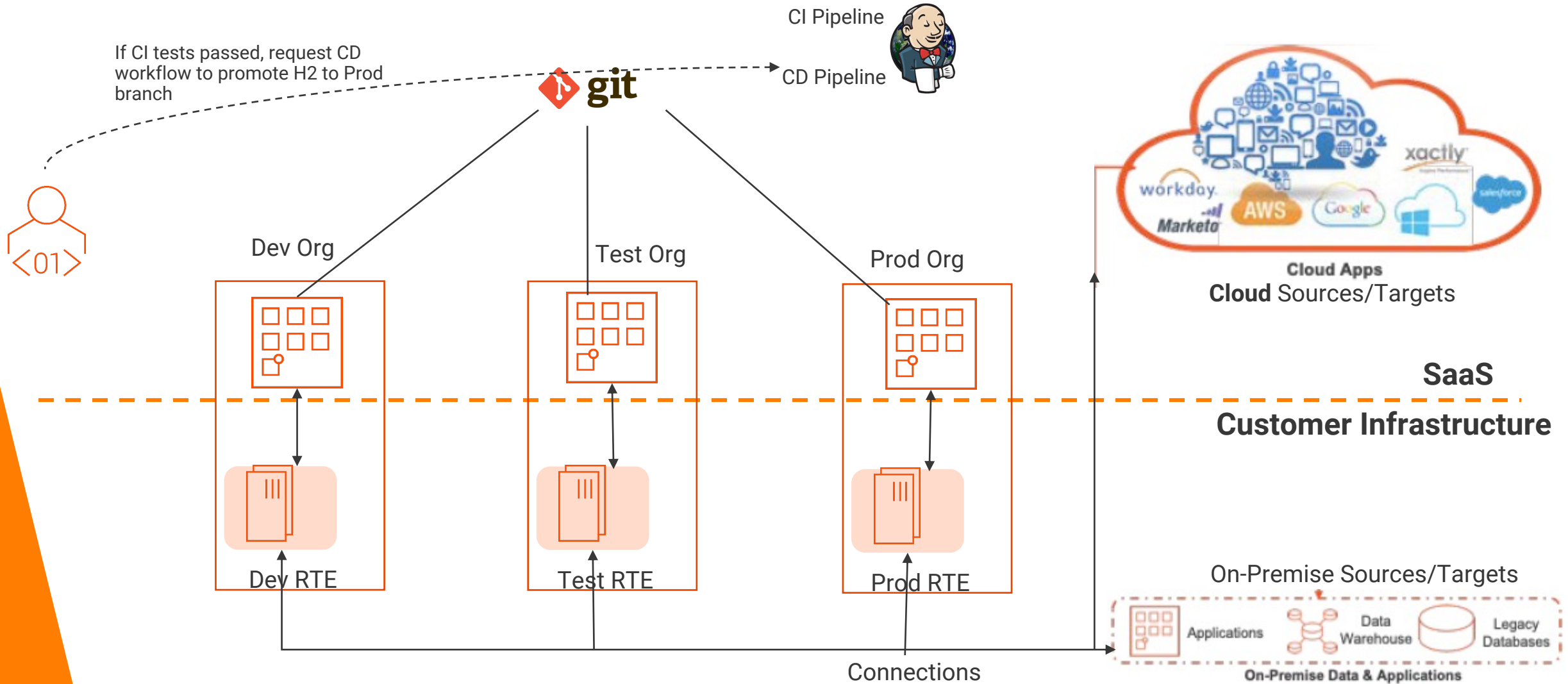
# Step 2: d. Pull by Commit Hash H2 into Test Org



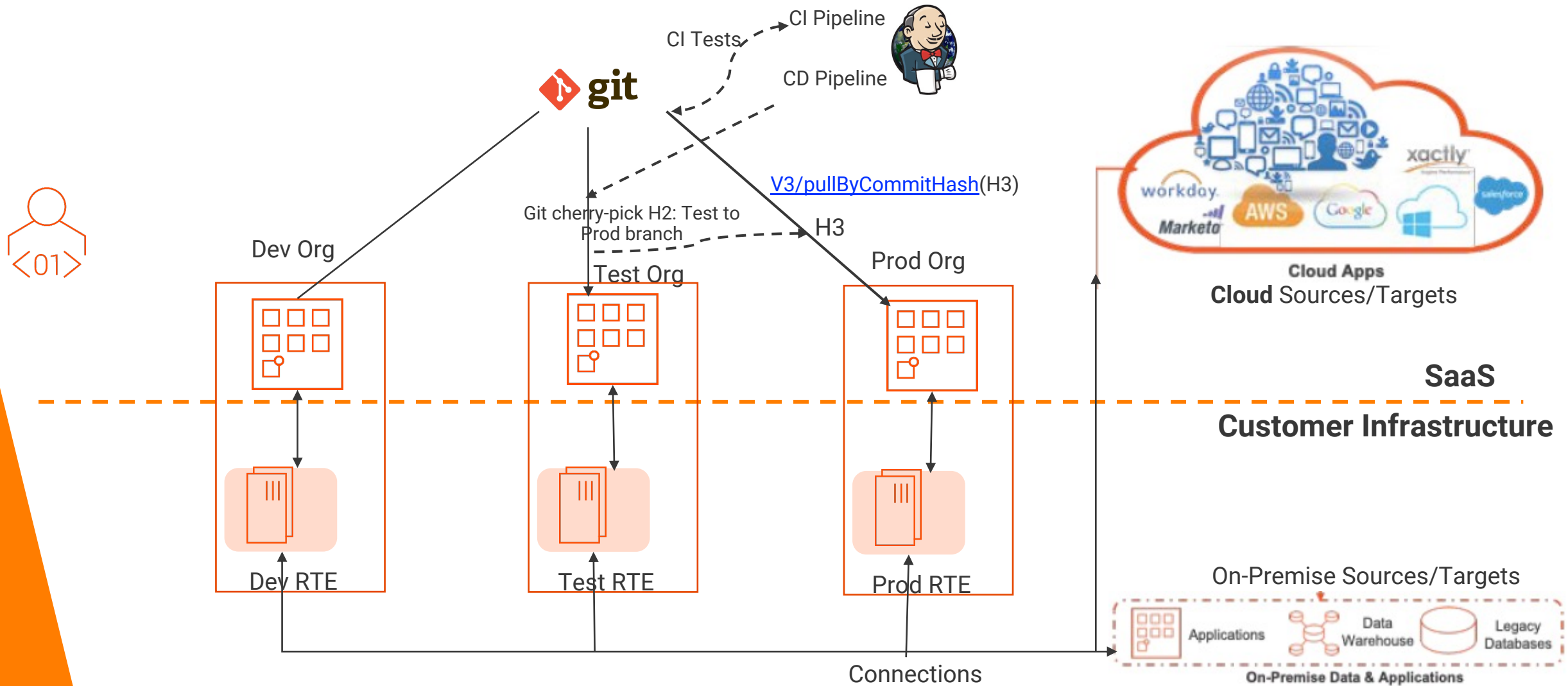
# Step 2: e. CI repeats steps 1c, 1d, 1e in Test Environment



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



# Step 3: b. CD and CI pipelines repeat step 2b – 2d for Prod Env



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

