

Leveraging Distributed Builds



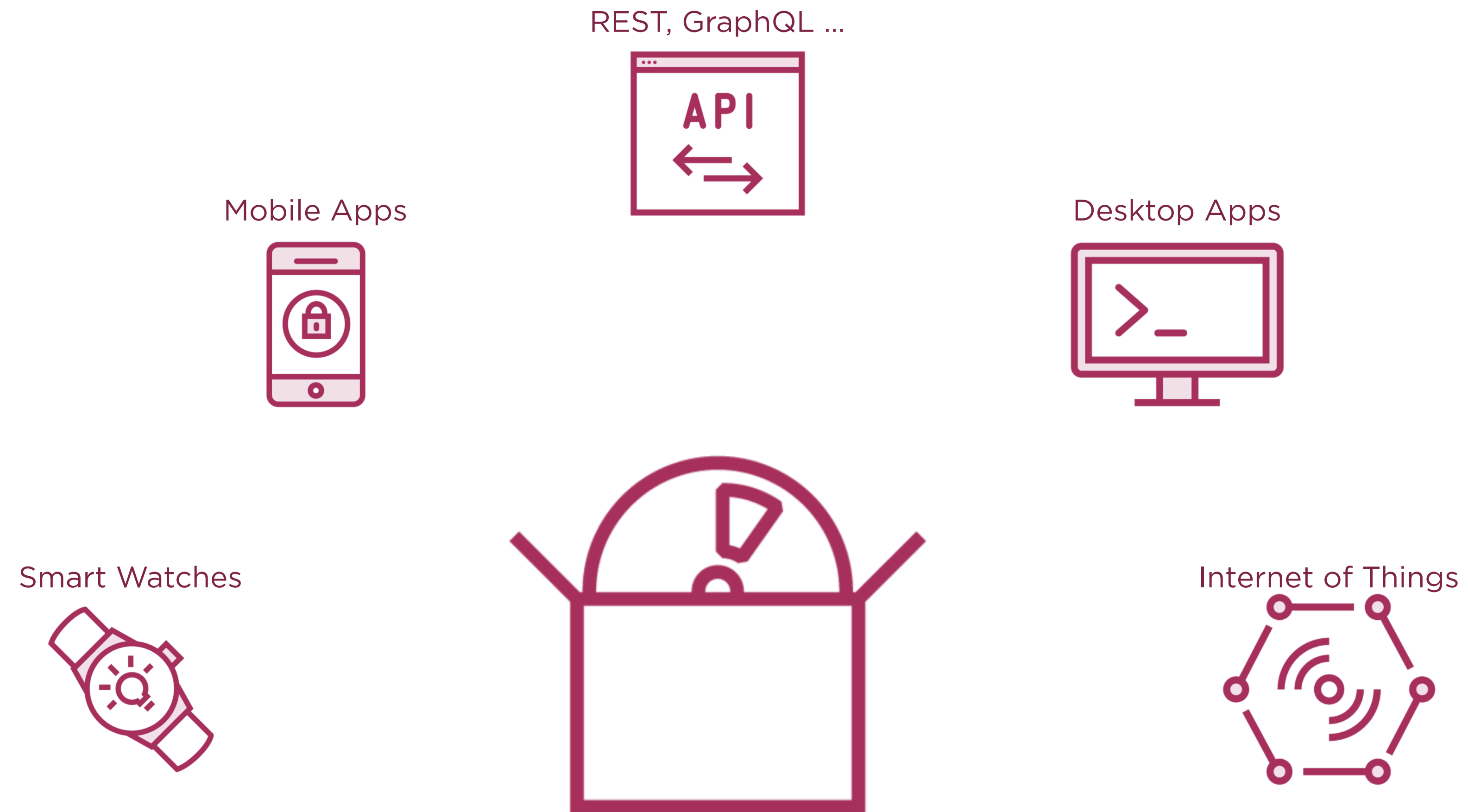
George Smith

SOLUTION ARCHITECT & EDUCATOR

@GeorgeS11323298

Business Case

Product Portfolio Expansion



New
Expertise

Distributed Builds

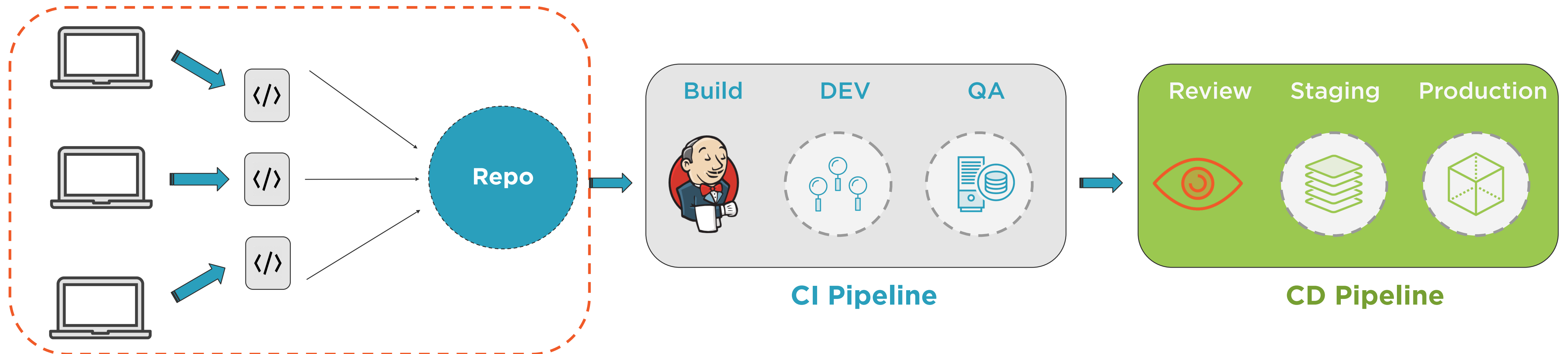
Plan

Setup

Execute

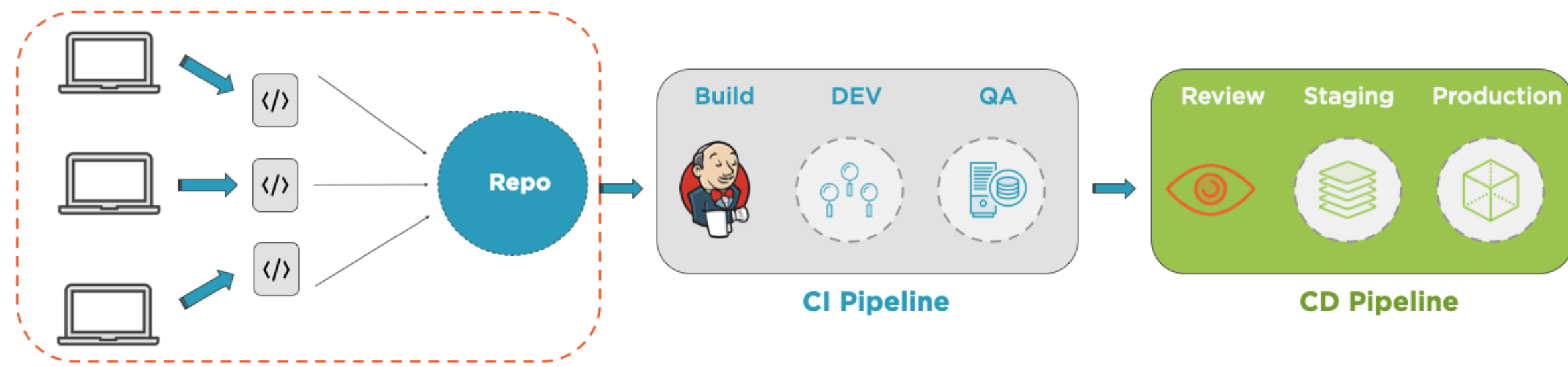
Mechanisms for 3rd party integrations

Single Pipeline

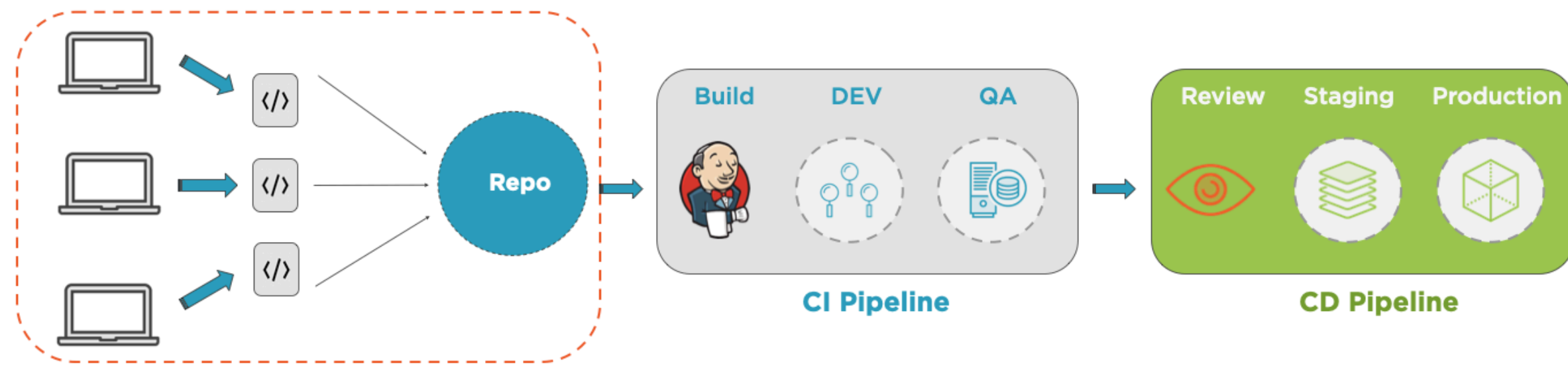


Multiple Pipelines

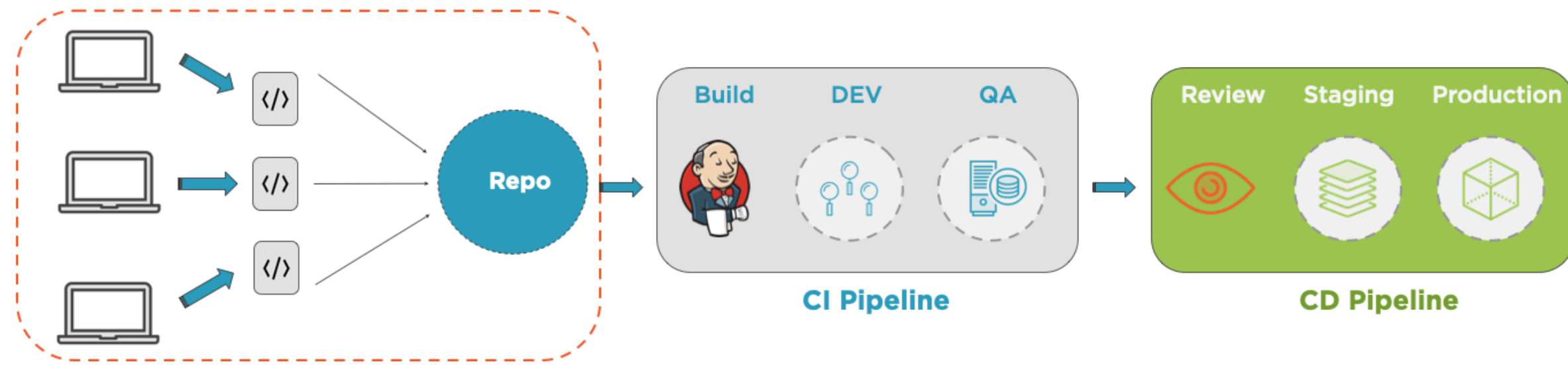
Smart Watches



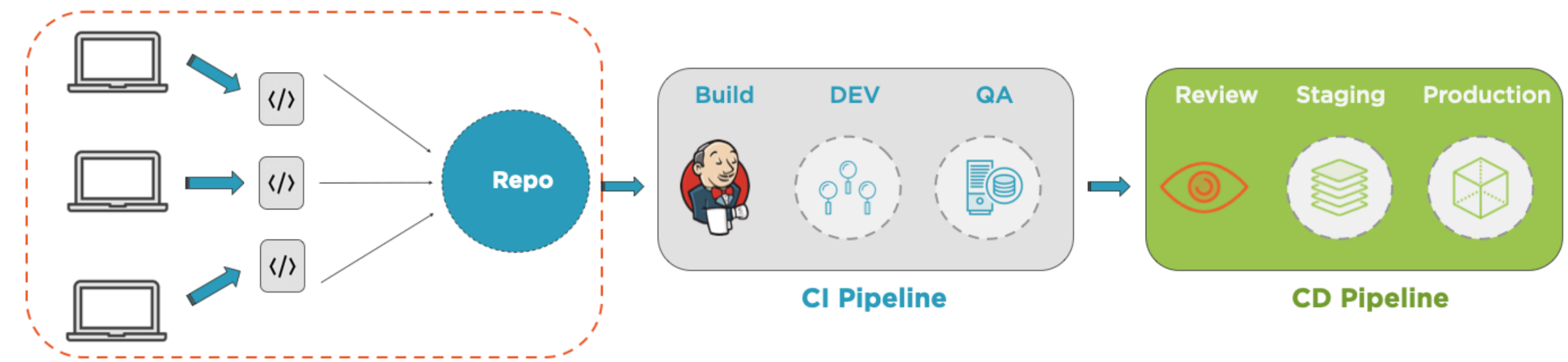
Mobile Apps



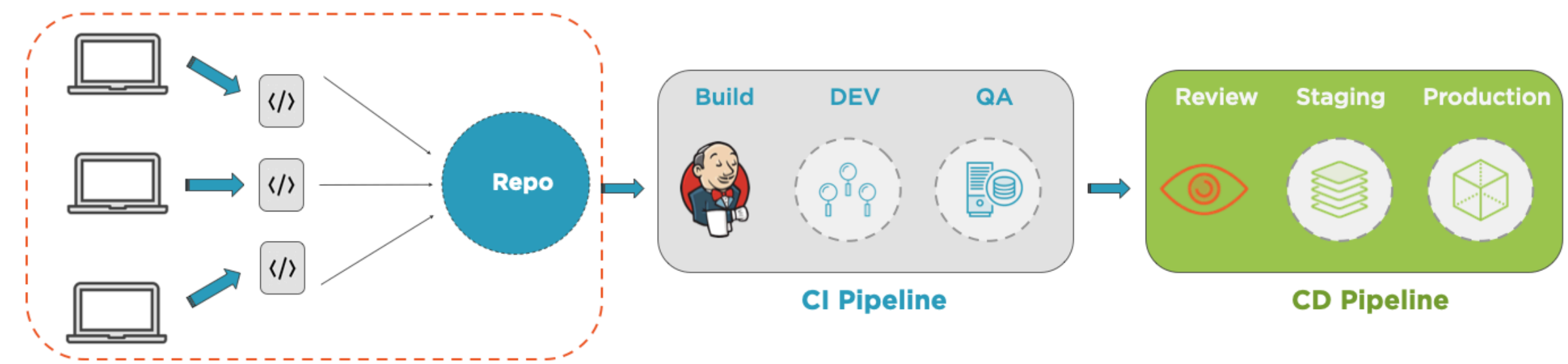
REST, GraphQL ...



Mobile Apps

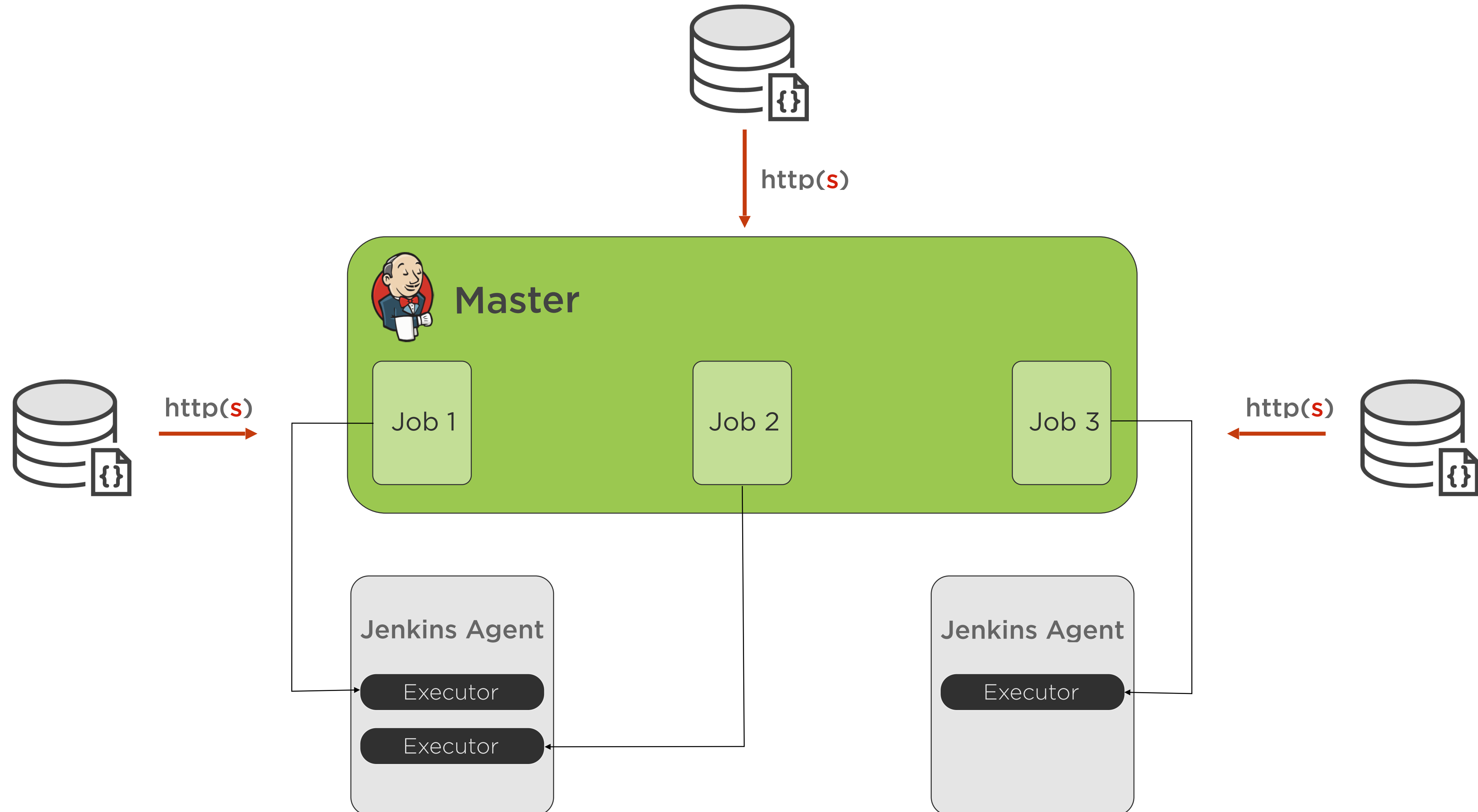


Internet of Things



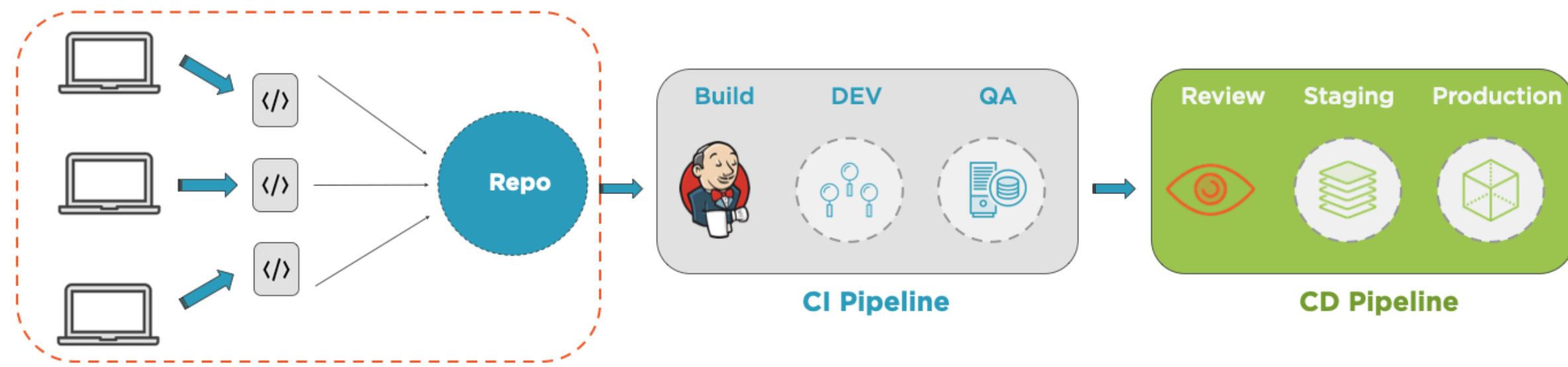
Master-Agent Architecture

Jenkins Master-Agent Architecture

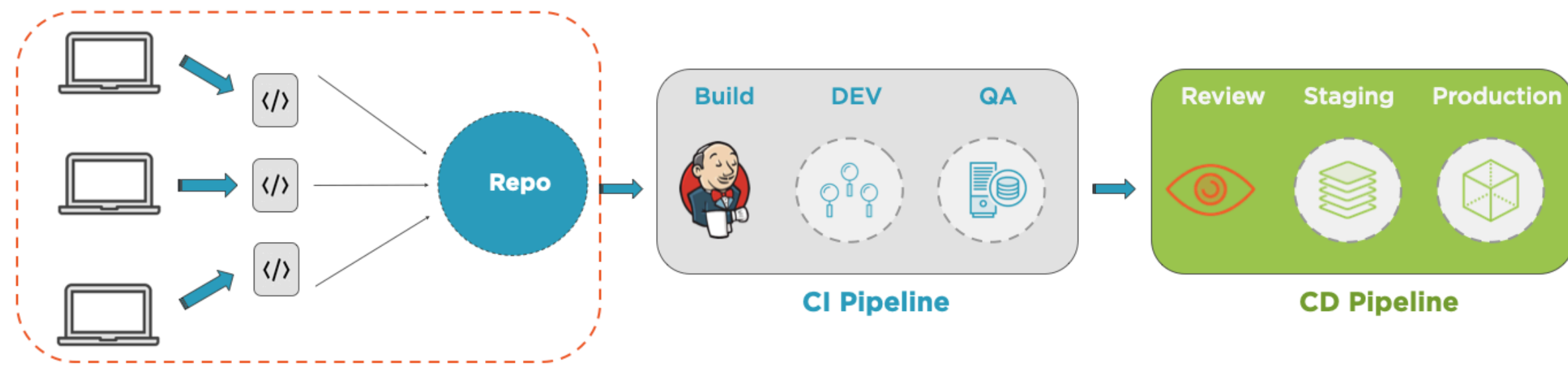


Multiple Pipelines

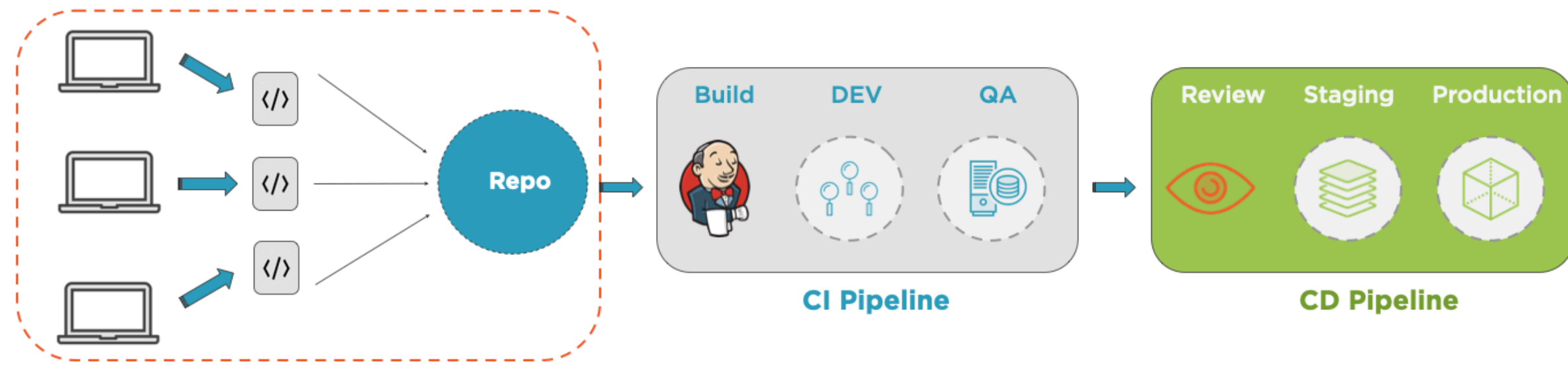
Smart Watches



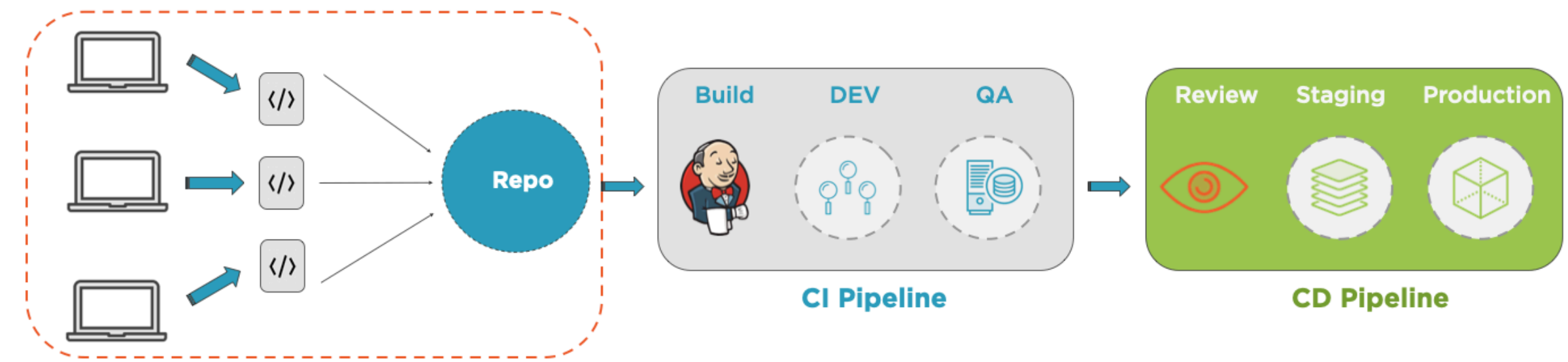
Mobile Apps



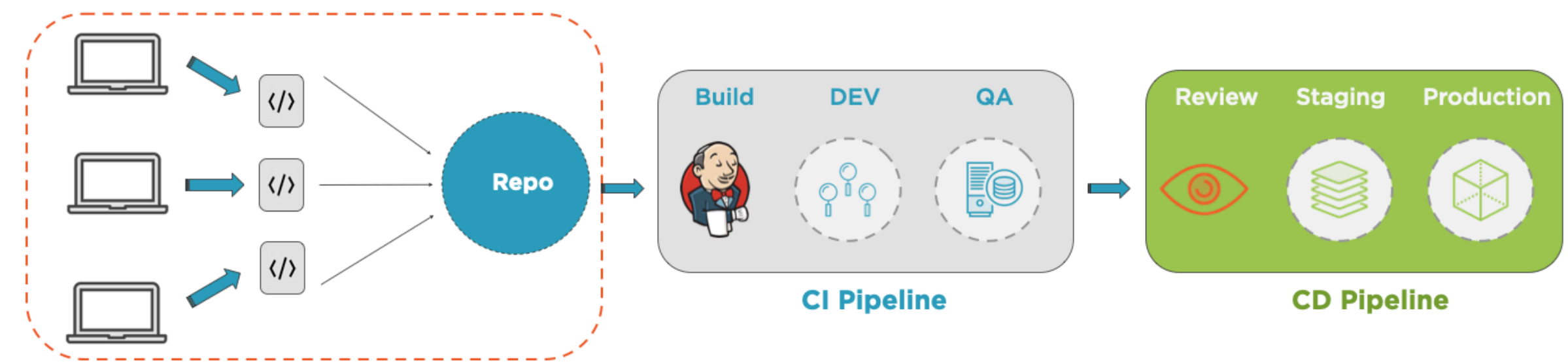
REST, GraphQL ...



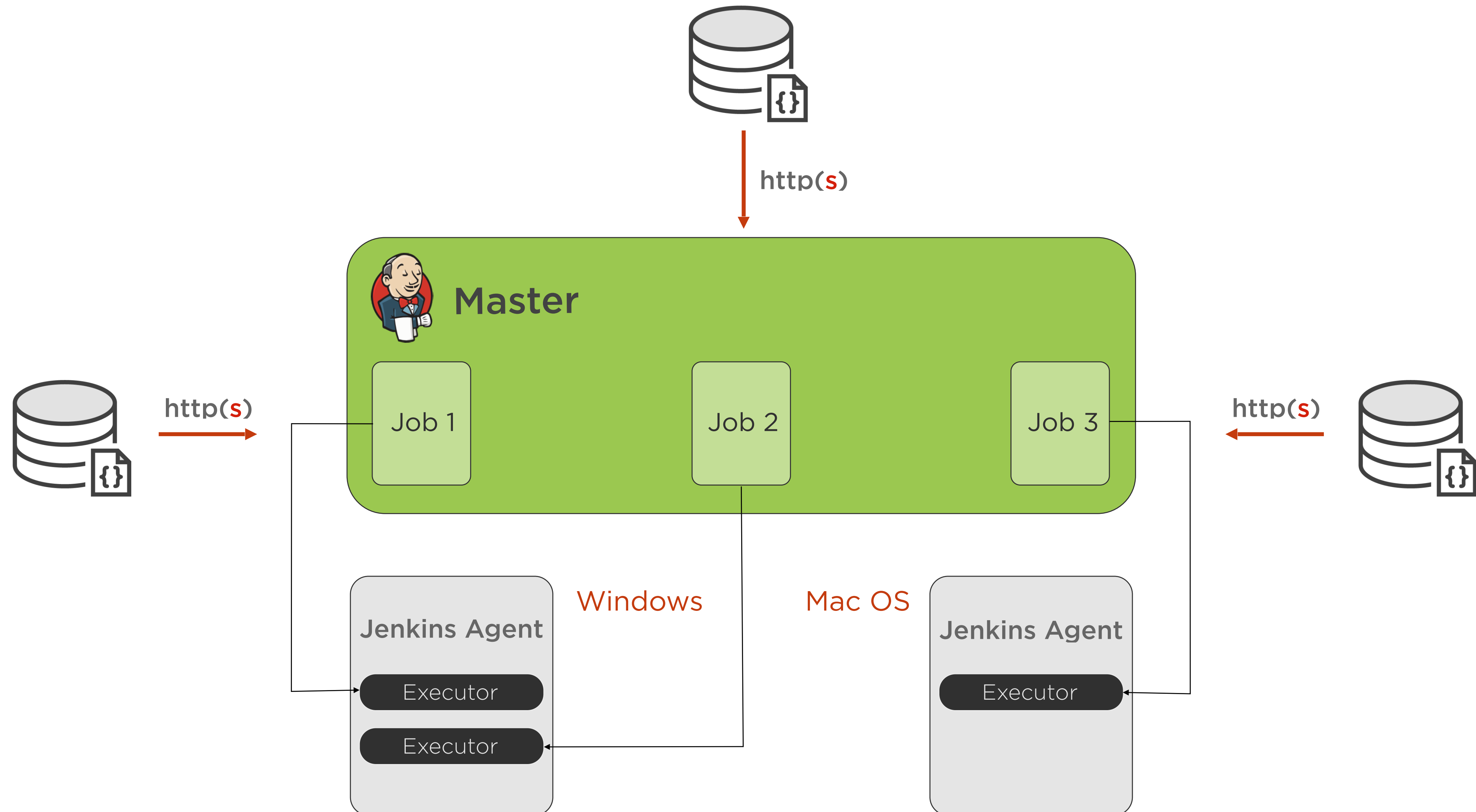
Mobile Apps



Internet of Things



Jenkins Master-Agent Architecture



Preparation

Tasks

Stand up EC2 Instances & Enable SSH
Generate SSH Keys

Testing Agents

Configuring Agents

Securing Agents

Secrets Best Practices

SSH Key Access Only

Partner with Jenkins Admins
in
Other Organizations

Acquired Skills

Managing Users

Credentials & Roles

Securing Agents

Passwords & SSH Keys

Summary

**Support Multiple Software Products
& Environments via Distributed Builds**

Creating Custom AMIs

Standing up EC Agent Nodes

Configuring Master & Agent Nodes

3rd Party System Integration Mechanisms