
AWS
re:Invent
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CloudBees

PRT071

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CloudBees CI CasC integration with AWS Secrets Manager

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Agenda

What is configuration as code (CasC) and why do we care?

An introduction to CloudBees CI CasC

Demo (CloudBees CI | Amazon EKS | AWS Secrets Manager)

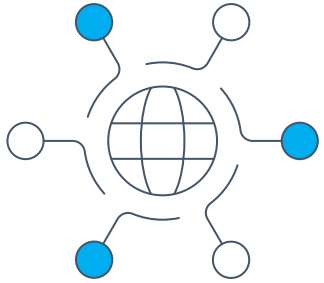
Wrap-up/Q&A

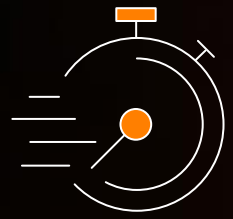
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"Configuration as code is a method of managing changes to your software that advocates for your application's configuration settings to be stored as code and maintained in version control."

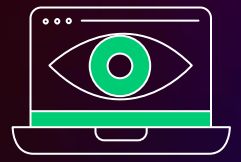


CloudBees CI
Configuration as Code (CasC)





Onboard with speed and consistency



Command everything from SCM



Seamlessly scale & continuously improve

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CasC for CloudBees CI: Bundle composition

- ***bundle (required)*** – An index file that describes the bundle, references the other files in the bundle and must be named. Any files not listed in this file will not be included in the controller bundle (even if it is in the bundle's directory).

- ***jcasc (optional)*** – Contains the Jenkins configuration (global configuration, credentials, plugin configuration, etc.), as defined by the Jenkins CasC plugin.

- **plugins (optional)** – Contains a list of all the plugins to be installed on the controller. Plugins that are not in the CloudBees Assurance Program (CAP) have to be added with a Plugin Catalog and to this file.

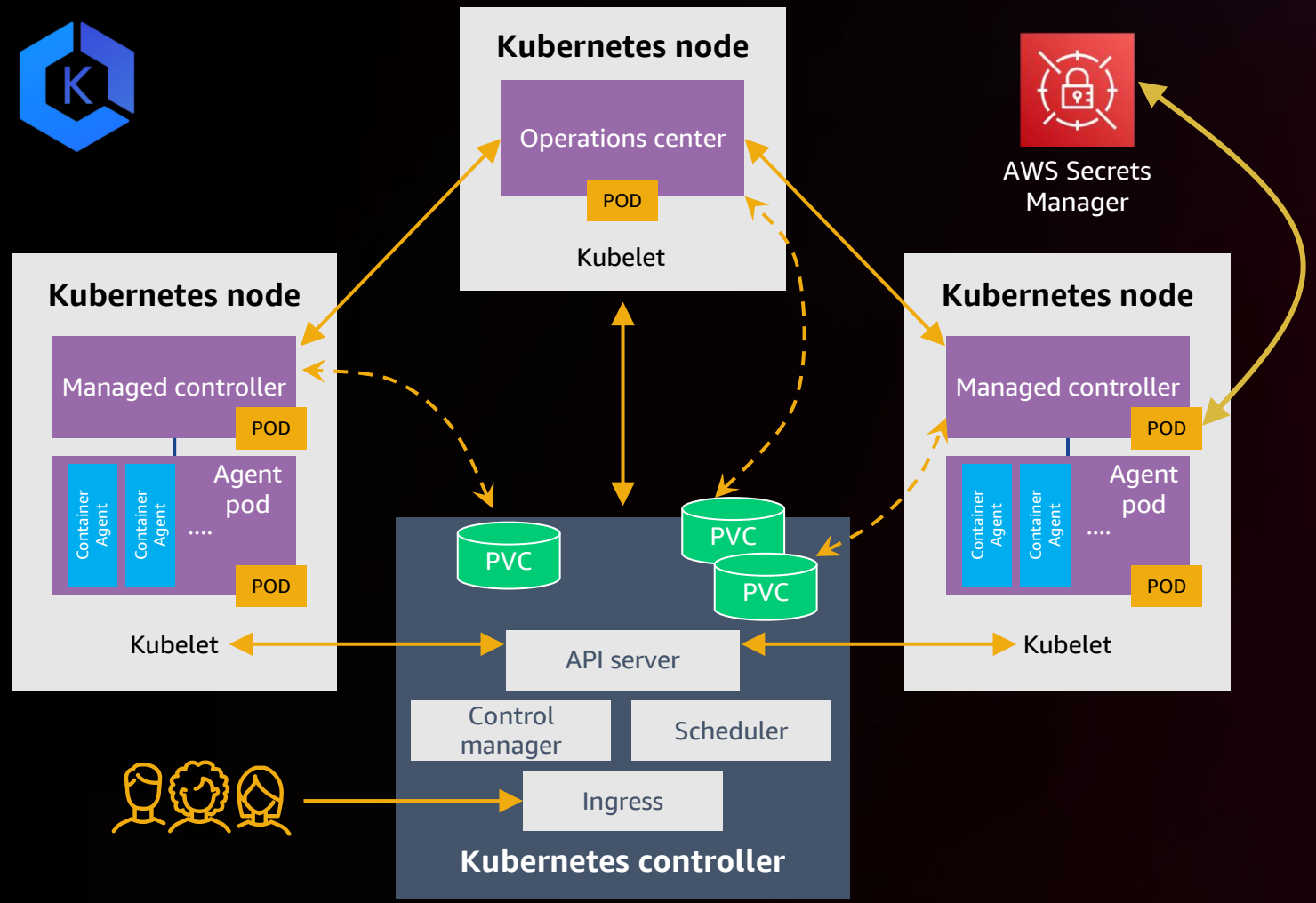
- ***catalog (optional)*** – Defines the catalog of versioned plugins outside of the CAP that are available for installation on the controller.

- ***items (optional)*** – Define items (folders, jobs, etc.), and, optionally, RBAC for folders to be created on the controller.

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CloudBees CI on Amazon EKS



Fail over less downtime

Liveness and readiness for controllers and operations center thanks to Kubernetes StatefulSets

Ephemeral agents

Agents are containers deployed on a Kubernetes pod – They are created and destroyed during pipeline run

Kubernetes templates

Templates can be defined for pod Templates, shared with the whole cluster

Multi-cloud support

Different Kubernetes clouds can be configured and shared

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Additional resources

- Configuration-as-Code: When and Why You Should Use It



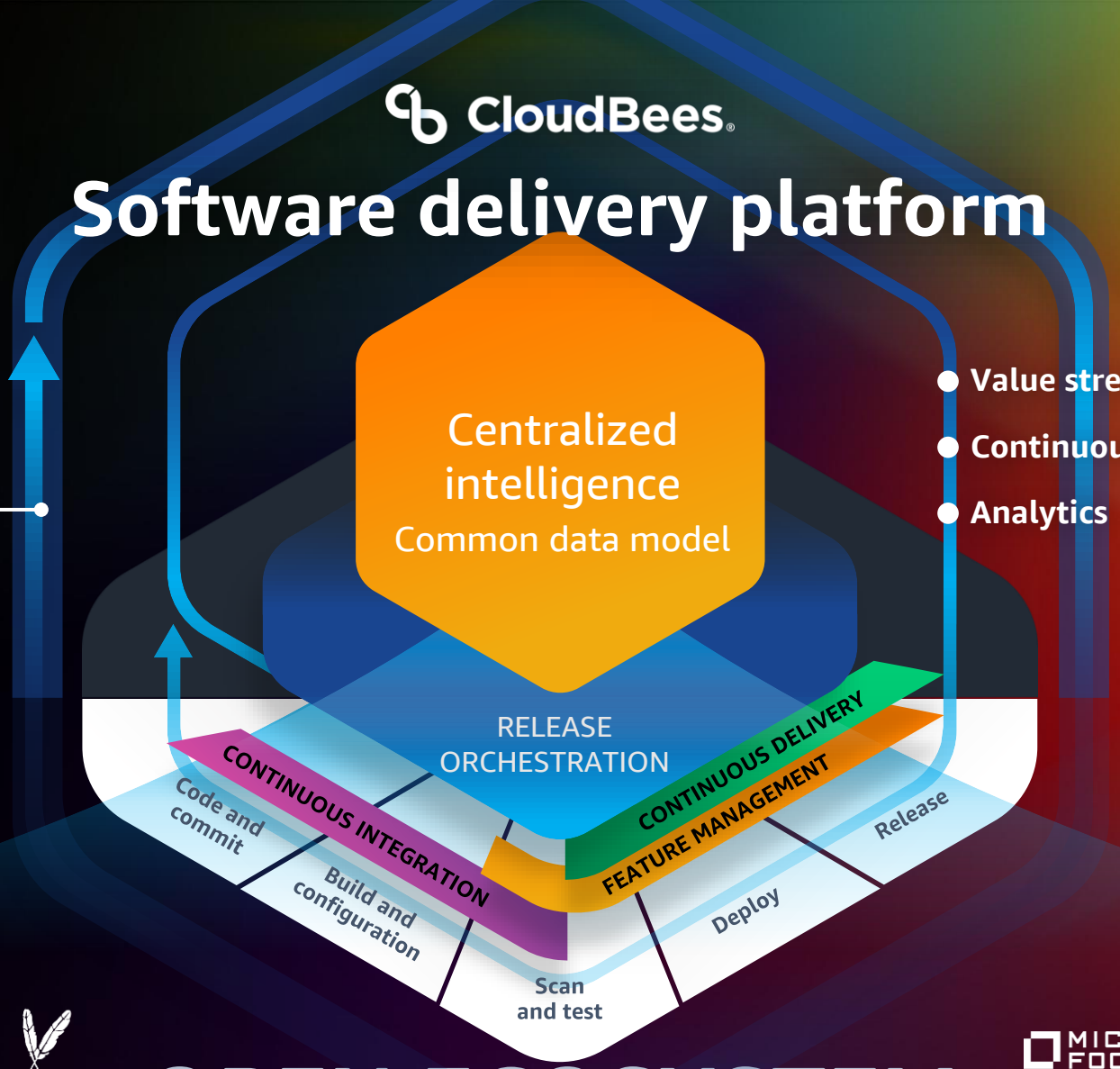
- CloudBees configuration-as-code monthly workshops



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CloudBees

Software delivery platform



Continuous compliance

- Value stream management
- Continuous governance
- Analytics

Bitbucket GitHub servicenow git Azure DevOps nexus repository JFrog Artifactory ca technologies

docker OPENSHIFT openstack vmware aws

Gradle docker Maven HashiCorp Terraform ANSIBLE CHEF

MICRO FOCUS ca technologies urban {code} digital.ai CollabNet

VERACODE sonarqube JUnit BlazeMeter by Perforce cucumber snyk

OPEN ECOSYSTEM

Thank you!

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