

Module 4 Glossary

Estimated reading time: 6 minutes

Term	Definition	Where the term is introduced
Application Repository	The application repository stores the source code, which the CI pipeline pulls for build and testing operations.	Components of DevOps Pipeline
Argo CD	Argo CD is a powerful open-source continuous delivery tool specifically designed for Kubernetes environments.	GitOps with ArgoCD
CD Pipeline	The CD pipeline mainly deploys/deploys the prepared artifacts into specific target environments. It ensures a smooth transition from development to production.	Components of DevOps Pipeline
Change Request Tool	A change request tool manages and tracks system changes. It integrates with the pipeline to ensure documented and validated changes before deployment.	Components of DevOps Pipeline
CI Pipeline	The CI pipeline validates, packages, and builds essential components, creating deployable artifacts like container images and helm charts. It ensures versioning and resource preparation.	Components of DevOps Pipeline
Code Risk Analyzer	The Code Risk Analyzer analyzes the code for potential risks, vulnerabilities, or code quality issues. It provides feedback and recommendations based on static code analysis.	Components of DevOps Pipeline
Condition	A condition is a set of rules or criteria determining when a particular task or step should be executed within a pipeline. Some common examples include branch-based conditions, environment-specific conditions, and error-handling conditions.	CI/CD with OpenShift Pipelines
Continuous Compliance Pipeline	This pipeline ensures that organizations maintain security and compliance standards throughout the deployment lifecycle of their applications and infrastructure.	Components of DevOps Pipeline
DevOps Insights	DevOps Insights collects data from the CI pipeline, generating reports to identify bottlenecks and areas for improvement.	Components of DevOps Pipeline
DevOps Pipeline	A DevOps pipeline is a workflow that automates software delivery. It is a series of interconnected steps that enable efficient and consistent execution of tasks such as building, testing, deploying, and releasing software.	Components of DevOps Pipeline
Evidence Component	An evidence component stores artifacts and documentation generated during pipeline execution for traceability and auditing.	Components of DevOps Pipeline
GitOps	It is an operational framework that utilizes the best practices of DevOps, which are used for application development.	Introduction to GitOps
Inventory Component	The inventory component tracks deployed applications, dependencies, and infrastructure configurations, ensuring consistency and control over software deployments.	Components of DevOps Pipeline
Key Protect	Key Protect securely stores cryptographic keys and sensitive information, providing secure access during deployment.	Components of DevOps Pipeline
OpenShift Pipelines	OpenShift Pipelines, provided by Red Hat OpenShift, is a cloud-native solution for continuous integration and continuous delivery (CI/CD). It relies on Kubernetes objects to automate deployments across various platforms.	CI/CD with OpenShift Pipelines
PipelineRun	A PipelineRun is a resource that represents the execution of a specific pipeline instance. It defines the runtime configuration and parameters for running a pipeline in OpenShift Pipelines.	CI/CD with OpenShift Pipelines
Resource	A resource represents an input or output artifact that is used by tasks within a pipeline. Resources in OpenShift Pipelines can include source code repositories, images, configuration files, secrets, or other artifacts.	CI/CD with OpenShift Pipelines
Secrets Manager	A secrets manager securely stores sensitive information and integrates it with the CI pipeline to provide authorized access during build and deployment.	Components of DevOps Pipeline
Security and Compliance Center	The security and compliance center enforces policies, conducting security scans, vulnerability assessments, and compliance checks.	Components of DevOps Pipeline
Slack Integration	Slack integration enables efficient communication by sending notifications and reports to the development team.	Components of DevOps Pipeline
SonarQube	SonarQube, a code quality management platform, performs static code analysis, measures code coverage, and assesses maintainability.	Components of DevOps Pipeline
TaskRun	A TaskRun is a resource representing the execution of a specific task instance within a pipeline. It is created based on a Task resource, which defines the steps and configuration for a particular task.	CI/CD with OpenShift Pipelines
Tekton	This abstraction allows developers and operators to define and configure pipelines using higher-level constructs that are easier to understand and work with.	CI/CD with OpenShift Pipelines

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