



TEKTON, TEKTON, TEKTON...



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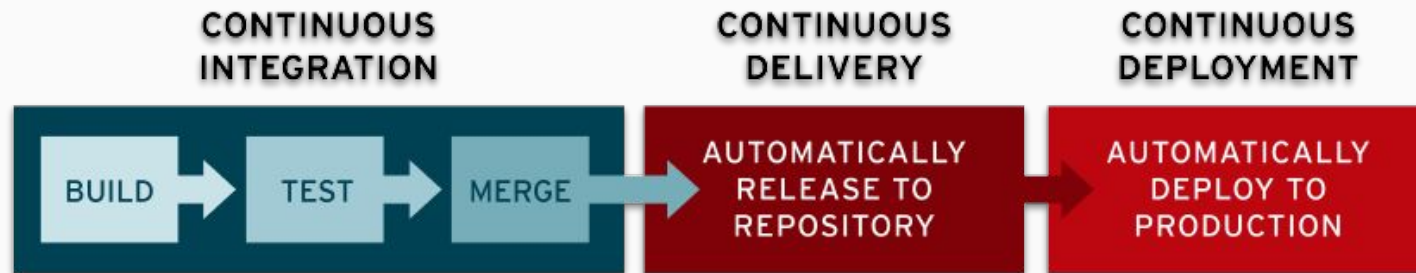


PRESENTATION



CI/CD

- ❏ Introducing automation into application lifecycle
 - ❏ Building, Testing, Versioning, Deploying, Monitoring



Source: redhat.com

TEKTON



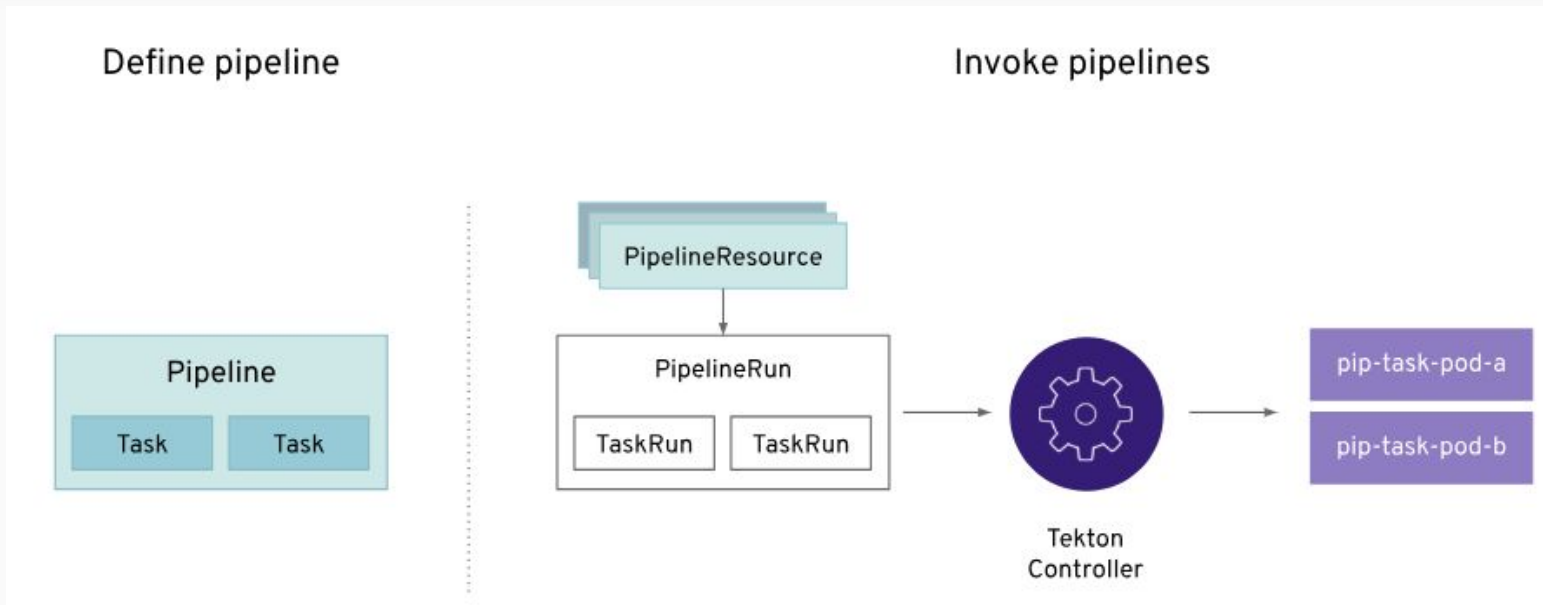
- ❏ Kubernetes-native
- ❏ Open-source CI/CD framework
- ❏ Enables automating deployments across multiple platforms (Kubernetes, serverless, VMs, etc)
- ❏ Abstracting away the underlying infrastructure



HOW IT WORKS?



MAIN COMPONENTS



Source: <https://github.com/openshift/pipelines-tutorial>

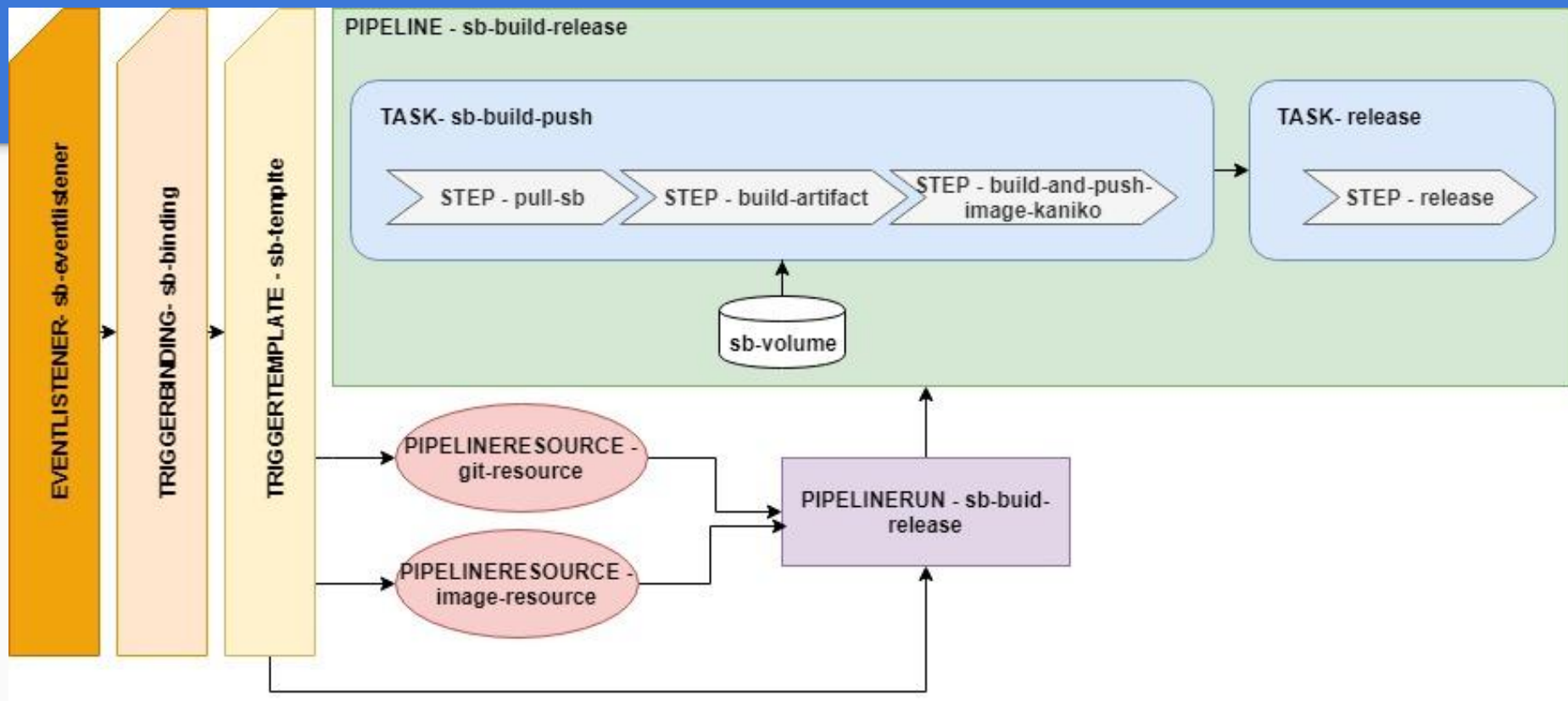


CUSTOM RESOURCES

- ❑ **Task:** a reusable, loosely coupled number of steps
- ❑ **Pipeline:** the definition of the pipeline and the Tasks that it should perform
- ❑ **PipelineResource:** inputs (e.g. git repository) and outputs (e.g. image registry) to and out of a pipeline or task
- ❑ **TaskRun:** the execution and result of running an instance of task
- ❑ **PipelineRun:** the execution and result of running an instance of pipeline
- ❑ **TriggerTemplate:** Templates resources to be created (e.g. Create PipelineResources and PipelineRun that uses them)
- ❑ **TriggerBinding:** Validates events and extracts payload fields
- ❑ **EventListener:** Connects TriggerBindings and TriggerTemplates into an addressable endpoint (the event sink)



DEMONSTRATION





DEMO ON OPENSIFT

<https://github.com/saberkkan/tektion-tutorial.git>