



► USE CASE: CI/CD USING PUPPET ENTERPRISE AND JENKINS

Technology

Puppet Enterprise (PE) provides a common language that all teams in an IT organization can use to adopt practices such as version control, code review, automated testing, continuous integration, and automated deployment - infrastructure as code. Puppet enables a model-driven approach and imperative task execution to manage desired state of infrastructure across its entire lifecycle.

Jenkins is one of the most widely used tools for continuous integration and delivery. Jenkins is a self-contained, open source automation server which can be used to automate numerous tasks related to building, testing, and delivering or deploying software.

Challenge



Our customer needed to automate the testing, promotion, and deployment of infrastructure changes, while solving the following challenges:

1. Automate deployment of continuous integration and delivery (CI/CD) tooling servers to be used by infrastructure development teams.
2. Maintain and control changes to existing CI/CD servers.

Solution



Metsi implemented a solution using Puppet Enterprise and the Jenkins Puppet module. Metsi developed CI/CD server profiles to automate the deployment of Jenkins servers along with pipelines for Puppet code, including containerized builds for automated testing.

Achieve Digital Maturity with Metsi's Full Stack Engineering

Summary

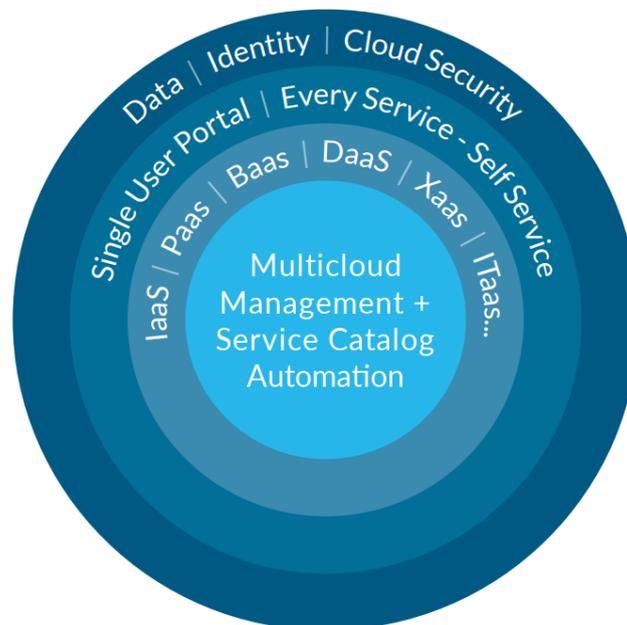


Metsi offers IAC (Infrastructure as Code) services with both Puppet Enterprise and Jenkins. IAC presents underlying infrastructure resources in code, so that infrastructure resources can be maintained cohesively and accessed collaboratively when writing application code. IAC can be leveraged by DevOps teams, regardless of whether cloud resources are being provisioned in a public cloud, private cloud, or a hybrid multicloud.

Metsi Technologies

Metsi is a global Full Stack Engineering Systems Integrator, Cisco Integrator Partner, and Cisco Business Learning Partner. We have business offices in the US, UK, and Germany and distributed engineering resources throughout North America, Europe, and Africa.

Metsi specializes in complex systems automation & orchestration, built on a multicloud or hybrid cloud fabric, and empowered by a Software Defined Data Center. Our software engineers are experts in self-service platforms (Prime Service Catalogue, CloudCenter), real-time business performance and optimization (AppDynamics, Tetration, Turbonomic); and automated control of network infrastructure (ACI). We integrate the entire IT stack, including RedHat, Microsoft, VMware, Kubernetes, AWS, Azure, and Google Cloud Platform. At the top of the stack, we offer 20+ years of Business Performance Management, including business intelligence, software intelligence, and Cloud APM.



Metsi Technologies Continuous Digital Innovation