



OPCITO TECHNOLOGIES

Complete Infrastructure and Application Deployment Automation using Stacki and Ansible

About The Customer

The customer is a global IT services and consulting company operating in over 20 countries with over 40,000 employees. The company operates mainly in the cloud, networking, and security domain, with subsidiaries in different industry verticals.

Business Challenge

The customer has the bare metal data center environment and was looking for a complete automation solution for the whole setup, which would have - CloudStack provision on XenServer, Cloud Foundry provision on CloudStack, and application deployment on Cloud Foundry.

They also wanted a new bare-metal server setup with Linux for every release and a centralized solution to frequently format and reboot the servers with the given Linux OS. Once the infrastructure setup was complete, they wanted an automated solution to deploy the product application stack.

How Opcito Helped

The customer wanted a Linux server that would allow rapid setup of network installation environments. After analyzing the problem and requirements, the Opcito team suggested options that involved using Stacki or Cobbler. After careful consideration, Opcito chose Stacki because it supports Ansible and other configurations of disk management. Stacki is a CentOS/RHEL bare-metal install tool that can take servers from bare hardware (or virtual hardware) to working Linux. The proceedings included:

- Implementing the Ansible Playbook for configuring the application-related software stack integrated with the Stacki server. When the Stacki server boots the Linux systems, Stacki Ansible carts are executed on the server to configure the system
- Setting up the CloudStack with Ansible playbook

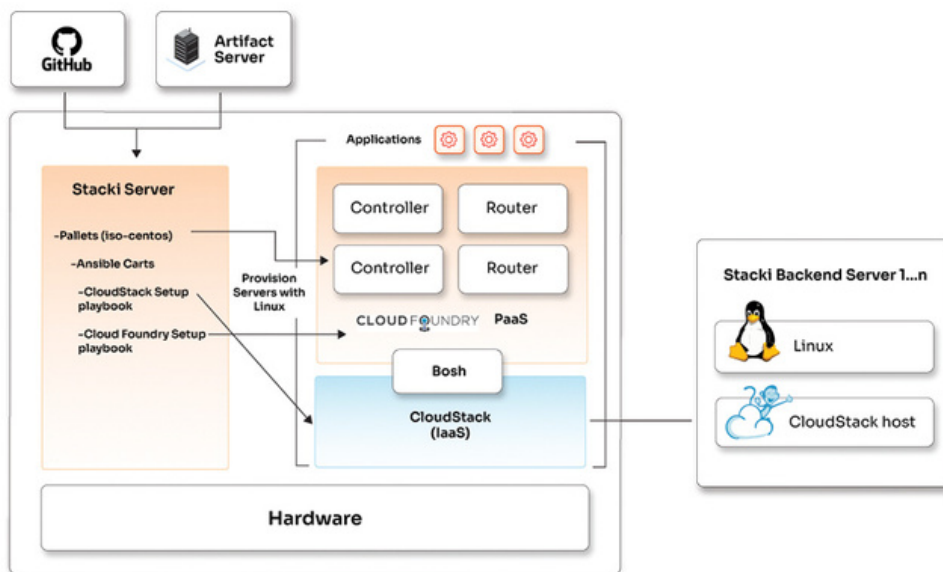


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- Using Ansible playbook to run the Bosh templates for Cloud Foundry setup
- Setting up Cloud Foundry using Bosh
- Using Ansible and Cloud Foundry Command Line Interface for application deployment



Technologies, Tools, and Platforms used

XENSERVER

CLOUDSTACK

CLOUD FOUNDRY

ANSIBLE

Benefits

CENTRALIZED CONTROL

Centralized control of the complete infrastructure

SIMPLIFIED PACKAGE AND DEPENDENCY MANAGEMENT

A centralized Stacki front-end server with required packages in one place that makes it easy to manage packages and dependencies

TIME SAVING

The parallel provisioning nature of Stacki meant less time required, and Infrastructure as code meant easy to manage infrastructure

About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.



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