



OPCITO TECHNOLOGIES

# Cloud Foundry Automation

## About The Customer

The customer is a global IT service and consulting company operating in over 20 countries with a headcount of 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 faced problems with frequent application deployment cycles and the time involved. They approached Opcito to provide the solution for frequent, microservice-based application deployments for internal and production environments. The customer is using the CloudStack environment running on XenServer. The customer wanted a platform that could work with CloudStack to continuously deploy application environments for their internal applications.

## How Opcito Helped

After significant research, Opcito suggested a solution by adopting a cloud application platform - Cloud Foundry (CF). Cloud Foundry is an open cloud-native application platform that provide continuous delivery of microservices, agile and extreme programming, opensource tools for developers, and secure & reliable cloud operations.

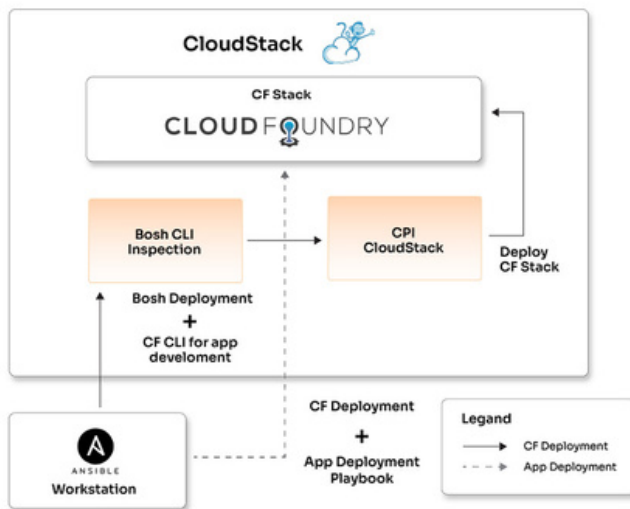
Opcito set up Cloud Foundry on the customer's existing CloudStack. Opcito implemented the open-source CF release deployment manifests and used Bosh to deploy the Cloud Foundry in this environment. Bosh is the most recommended and popular framework for deploying CF on the private cloud. Opcito leveraged Ansible by integrating with Bosh to generate Bosh templates at runtime per user requirements. The Bosh director for CloudStack has a limitation of CF deployment. Hence as a solution, external CloudStack CPI has to be used as a Docker container.



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## Technologies, Tools, and Platforms used

BOSH

ANSIBLE

CLOUDFOUNDRY

DOCKER

## Benefits

### MATURE TEAM MANAGEMENT

More mature team management model with an authentication engine

### SCALABILITY & PERFORMANCE

Increased scalability with the ability to perform well under a heavy load

### COST REDUCTION & EFFICIENCY

Reduced IT operations cost, infrastructure cost, risks, and time

### COMMUNITY POWERHOUSE

Access to Cloud Foundry's large community base, tools, and knowledge

## 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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