

Cloudify: TOSCA-Based Orchestration Solution with vCloud Air

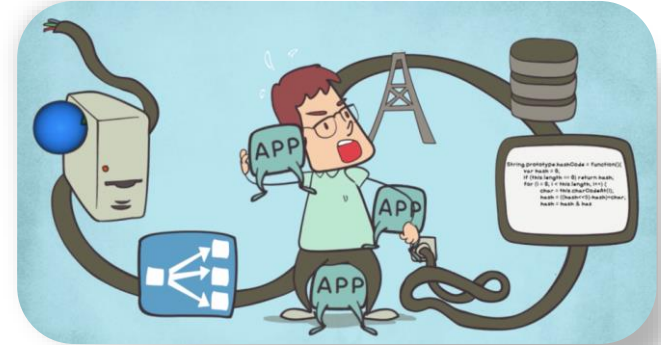
High-level Overview



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Challenges

- Moving Complex, Legacy Enterprise Applications to the Cloud
- Implementing DevOps Processes
- Managing Hybrid & Heterogeneous Environments
 - ❑ Varied tool sets: Chef, Puppet, Docker, etc
 - ❑ Different environments: VMWare, OpenStack, Amazon, etc



Dev/Test

Packaged
Applications

Disaster
Recovery

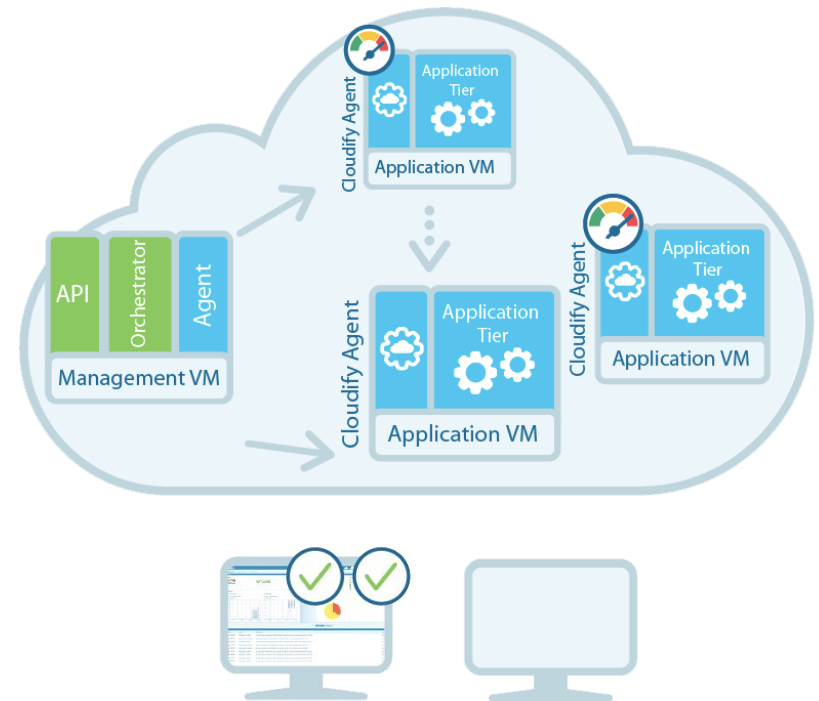
New
Enterprise
Applications

Next
Generation
Applications



Cloudify Orchestration

- **Step 1: Model Your Application**
 - Standards-based Blueprint (TOSCA)
 - Provision VM's, Configure Network
- **Step 2: Install your Application**
 - Integrate with Chef, Puppet, Docker, SaltStack
- **Step 3: Manage Your Application**
 - Add Monitoring, Logging, Alerts
 - Execute workflow for updates, patches, etc.
- **Step 4: Add Auto-Healing, Auto-Scaling**
 - Continuously detect and correct failure
 - Add more capacity through auto-scaling



Key Customer Benefits

- **For VMware Customers**

- ✓ Common Management Interface
- ✓ Enablement for hybrid deployment across vCloud Air, vSphere & OpenStack

- **For vCloud Air Customers**

- ✓ TOSCA-Compliant Orchestration
- ✓ Simple Deployment of Micro-Services, Big Data and NFV applications

Simple Web Apps

Microservices, Web Apps, Big Data, Stream Processing, Legacy,..



Cloudify
TOSCA-Based Orchestration

Cloudify
VMware
Integration
Plugins



Key Points About Solution – Sales Focused



- **Reduce Labor Cost** through automation
- **Increase Availability** by eliminating human error
- **Increase Agility** with automation of continuous deployment processes
- **Reduce Vendor Lock-in** by
 - Implementing industry standard (TOSCA)
 - Integration with any cloud and DevOps tool chain

Key Points About Solution – Channel Focused

- **Shorten and Simplify Cloud Enablement Project**
- **Further Openness**
- **Custom added value services**
 - Solution packages as Blueprints
- **Better reuse of projects**
- **Better reuse of previous investment**



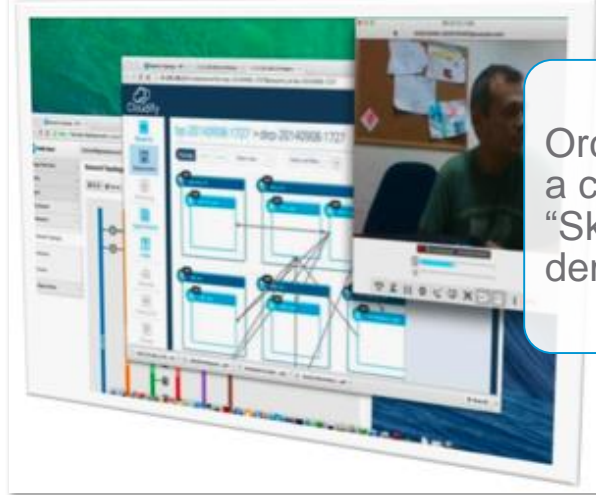
Live Demos

Orchestrate Simple Web App



Simple
Orchestration
of NodeJS,
MongoDB on
Docker
containers

Orchestrate Full Blown App



Orchestrate
a complete
“Skype” on
demand

Orchestrate Simple Web App

Cloudify Management & Monitoring



Local

1. Install the Docker Images

2. Configure the network, ports

2. Run the App

On VcloudAir

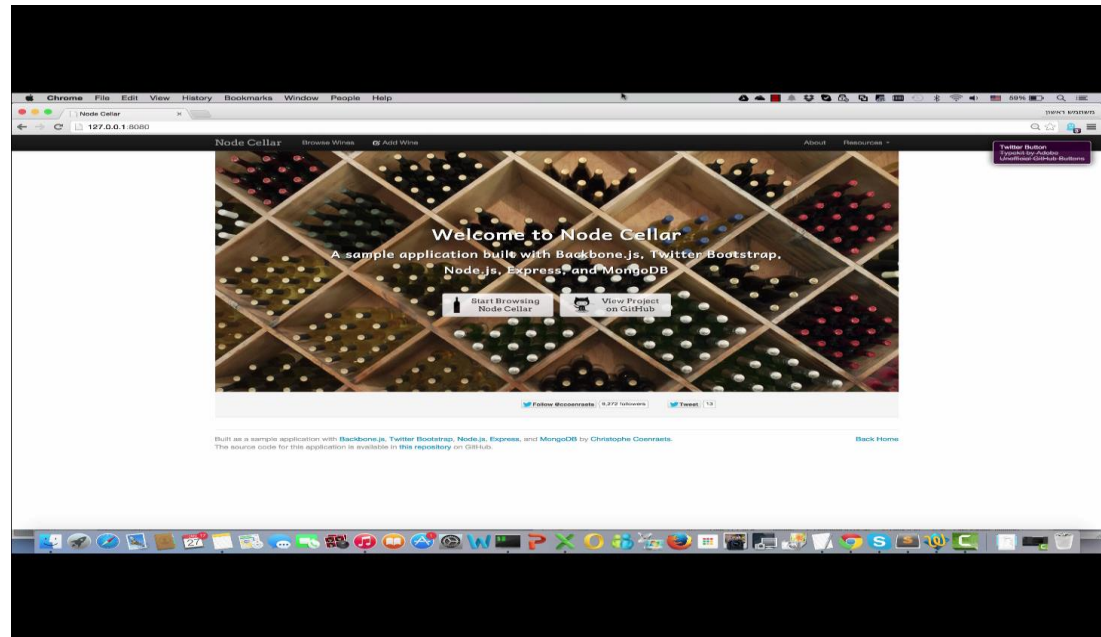
1- Create VCloudAir VM's on a VApp

2 -Provision Docker Images on the VM's

3- Configure The Network

4- Run the App

Orchestrate a Simple Web App – Recorded Demo

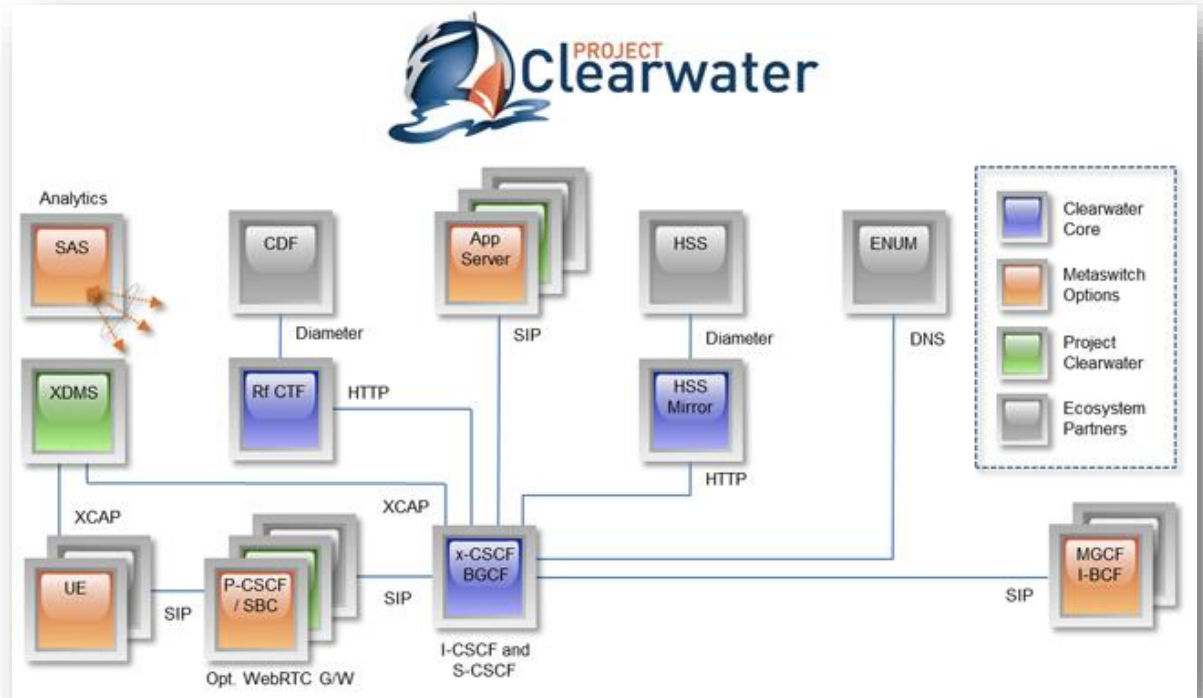
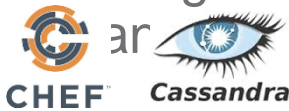


Orchestrate Full Blown App

- 12 Micro Services

- User Provisioning (Ellis)
- Edge Proxy (Bono)
- IP gateway (Sprout)
- DNS
- Cassandra (Homer, Homestead)
- Billing (Ralf)

- Chef as Configuration



Orchestrate Full Blown App – “Skype on Demand”

Cloudify Management & Monitoring



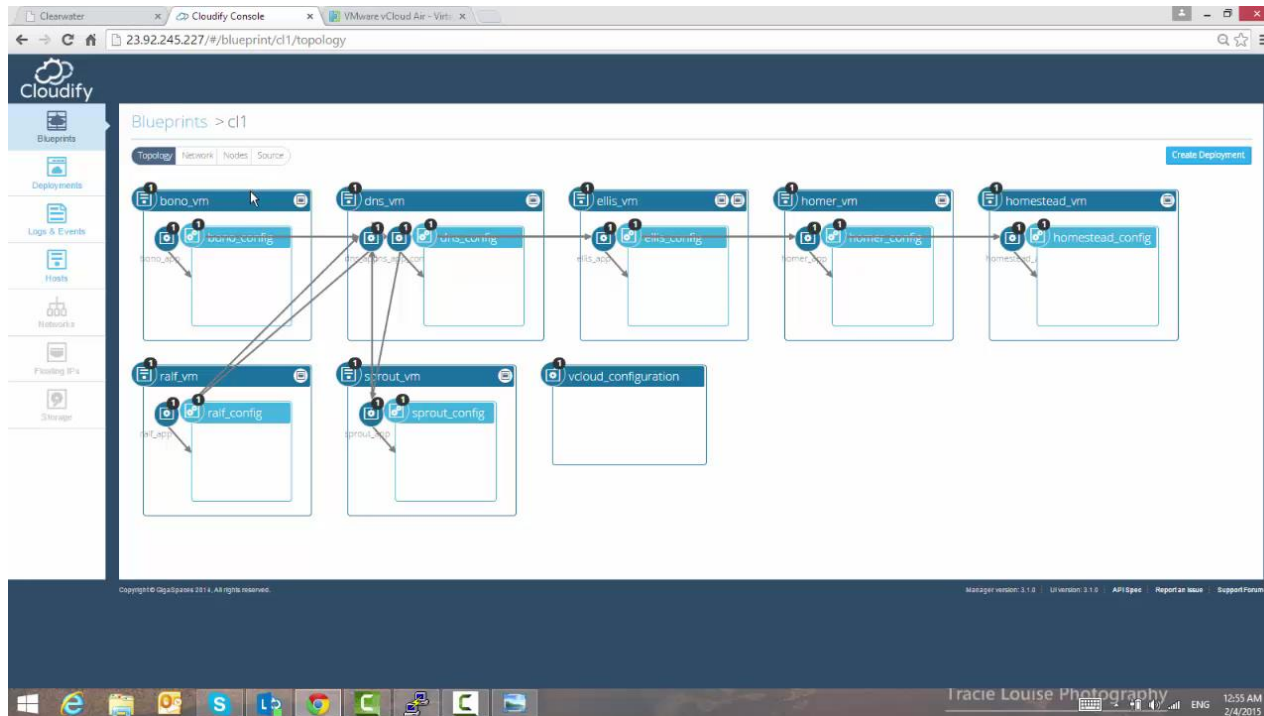
1- Create the Compute & Network services

2 -Provision The Software

3- Add Logging & Monitoring

4- Add Self Healing & Scaling

Full Blown App – Recorded Demo



Thank You

