

VisualOps – re:Invent PaaS

The screenshot displays the VisualOps console interface for a stack named 'spark-stack'. The left sidebar shows various resources including Availability Zones, Images (Quick Start Images), and Virtual Private Cloud. The main area features a network diagram of the stack, showing a VPC (10.0.0.0/16) with subnets (ap-northeast-1a, ap-northeast-1b, subnet0, subnet1, subnet2, subnet3, subnet4) and instances (master, slave, zk-1, zk-2, zk-3, zk-4, yamaster, dog). A terminal window is open, showing a list of commands and their outputs. A green checkmark icon is visible in the top right corner.

Terminal Output:

```
1 yum pkg java-1.7.0-ops
2 dir /opt/spark recur
3 archive
4 @{{db_instance.PrivateIpAddress}}
5 cmd grep -q 'hostname' /
6 cmd grep -q @{{master.Pr
7 file /opt/spark/spark-f
8 file /etc/supervis
9 supervisord
10 spark
```



Pain

- Running applications in the cloud is not as simple as plugging a TV into the power socket.
- You need to:
 - design the architecture
 - provision the infrastructure
 - deploy the code
 - continuous operation to keep the app running
- And what if:
 - deploy more environments for Dev/QA/Staging/Prod/DR, etc?
 - how to make sure all of these environments are consistent?
 - one of your servers crashed in 4:00am, wake up to fix?
 - whenever a traffic burst happens, do you want to manually scale the app, or automate?
 - your boss asks for a report. How to visualize what you have?



VisualOps
by MadmiraCloud

PaaS



- Play by their rules
 - language/framework
 - local disk access forbidden
 - how to run Hadoop in Heroku?
 - they can change anything at anytime they want
- Their downtime is your downtime
 - it is a blackbox
 - share the bathroom
- Still need to manage the PaaS
- Outgrow
 - open source is an illusion (sometime)
 - ok if you are BAT
 - but again, are you sure?



VisualOps
by MadmiraCloud

Visual is how human brain works

Global

giant-spark - stack

giant-spark - app

Edit App

Internet-gateway

ap-northeast-1a

spark-a (10.0.0.0/24)

master

slave

slave-0

slave-1

zk-zone-A (10.0.2.0/24)

zk-1

zk-2

ap-northeast-1b

zk-zone-B (10.0.3.0/24)

zk-3

spark-b (10.0.4.0/24)

yamaster

rk/spark-0.9.0-incubating/spark-0.9.0-incubating-bin-hadoop1.tgz extracted in /opt/spark/

- State 5
2014-05-08 23:15:55
SUCCESS

- State 6
2014-05-08 23:16:00
SUCCESS

Directory /opt/visualops/tmp updated
Command "hostname master" run

- State 7
2014-05-08 23:16:05
SUCCESS

Directory /opt/visualops/tmp is in the correct state
Command "grep -q master /etc/host || echo "10.0.0.4 master" >> /etc/hosts" run

grep: /etc/host: No such file or directory

- State 8
2014-05-08 23:16:10
SUCCESS

File /opt/spark/spark-0.9.0-incubating-bin-hadoop1/conf/spark-env.sh updated

- State 9
2014-05-08 23:16:15
SUCCESS

- State 10
2014-05-08 23:16:21
SUCCESS

File /etc/supervisord.conf updated

- State 11
2014-05-08 23:17:00
SUCCESS

Package was successfully installed
The following packages were installed/updated: python-pip.
Not starting already running service: spark

View details...

Property

State (11)

---- Packages ----

2 yum pkg java-1.7.0-openjdk

3 dir /opt/spark recursive

4 archive /opt/spark
http://www.apache.org/dist/incubator/spark/spark-

---- configuration files ----

6 cmd hostname master

7 cmd grep -q master /etc/host || echo "{self.PrivateIpA

8 file

* path /opt/spark/spark-0.9.0-incubating-bin-hadoop1/co

content

-Dspark.deploy.zookeeper.url={zk-1.PrivateIpA

mode 755

9 # ---- start daemon ----

10 file /etc/supervisord.conf

11 supervisord spark

Last saved: -

78 0



No Ops

- Infrastructure as Code
 - repeatable
 - consistent
 - version control
- Desired State
 - you order, we cook
 - auto scaling
 - auto healing
 - log & audit
 - push to deploy



VisualOps
by MadelineCloud

Value

- Template-based provisioning
 - fast and repeatable Dev/QA, Demo environment setup
- Continuous Deployment
 - launch your stack into running app, VisualOps deploys your code and upgrades it once there is a newer version
- App Ensure
 - design, launch, relax; VisualOps will ensure your app is always up & running, in the state you defined



VisualOps
by MadstraCloud

Instant Apps

- Single click to launch
 - similar with AWS Marketplace, dedicated for distributed apps
- No Ops, worry free
 - Launch, use, nothing else
- Everyone benefits
 - more instances launched (AWS)
 - more license sold (SAP)
 - more ops covered (VisualOps)
 - quicker, lower cost, better uptime, security, etc. (customers)



VisualOps
by MadeiraCloud

Word of Mouth



Brian Klaas @brian_klaas · Apr 23

O damn. I'm going to have to play with this: visual DevOps automation for Amazon Web Services (#AWS) visualops.io

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Matthew Povey @MattPovey · Apr 22

#AWS will buy this lot: visualops.io or copy them. One or the other... Probably the latter.

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Bernd Rennebeck @brennebeck · May 27

Holy sh!t... **VisualOps** just blew my mind.

VisualOps - Visual Cloud Computing IDE bit.ly/1k98jQc

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Jinesh Varia @jinman · Oct 16

Absolutely love the new Madeira Cloud IDE - all HTML5/JS
ide.madeiracloud.com

Folks, have to check this out!

@madeiracloud



Yonas @yonasbe · May 19

So many cool additions this week. **VisualOps** seems like the most interesting:

leanstack.io/visualops (source: eepurl.com/U1RXv)

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Kurt Seifried @kurtseifried · Apr 24

And so it begins, developer efficiency: visualops.io dev can now deploy an entire AWS stack with point and click ease

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VisualOps
→
Automate
this world

HD
MASTERPIECE

image without prior notice.

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