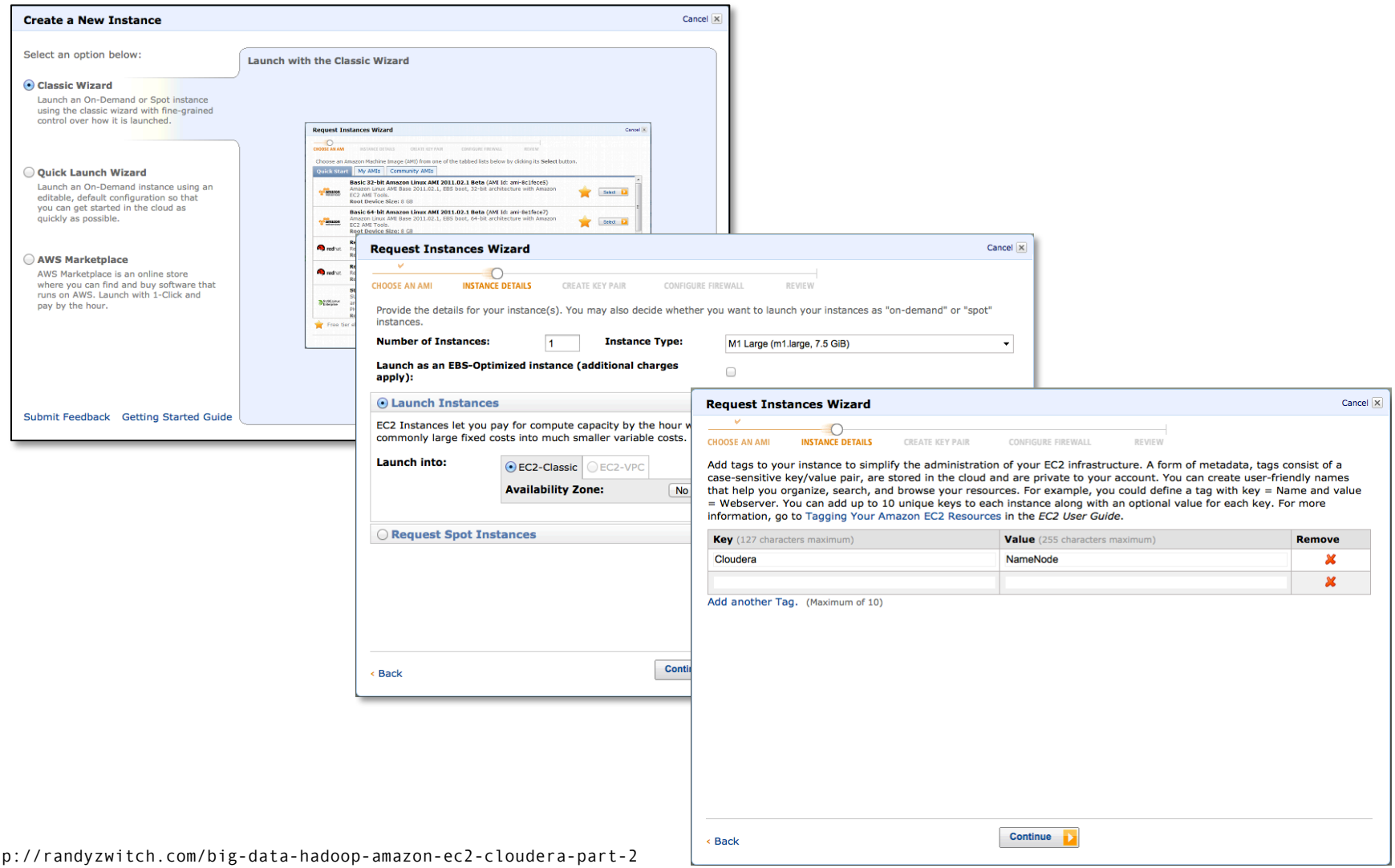
Building a Hadoop Cluster on Amazon EC2 using Cloudera

April 2013

http://randyzwitch.com/big-data-hadoop-amazon-ec2-cloudera-part-2

Create Name Node: m1.large

Ubuntu Server 12.04.1 LTS 64-bit



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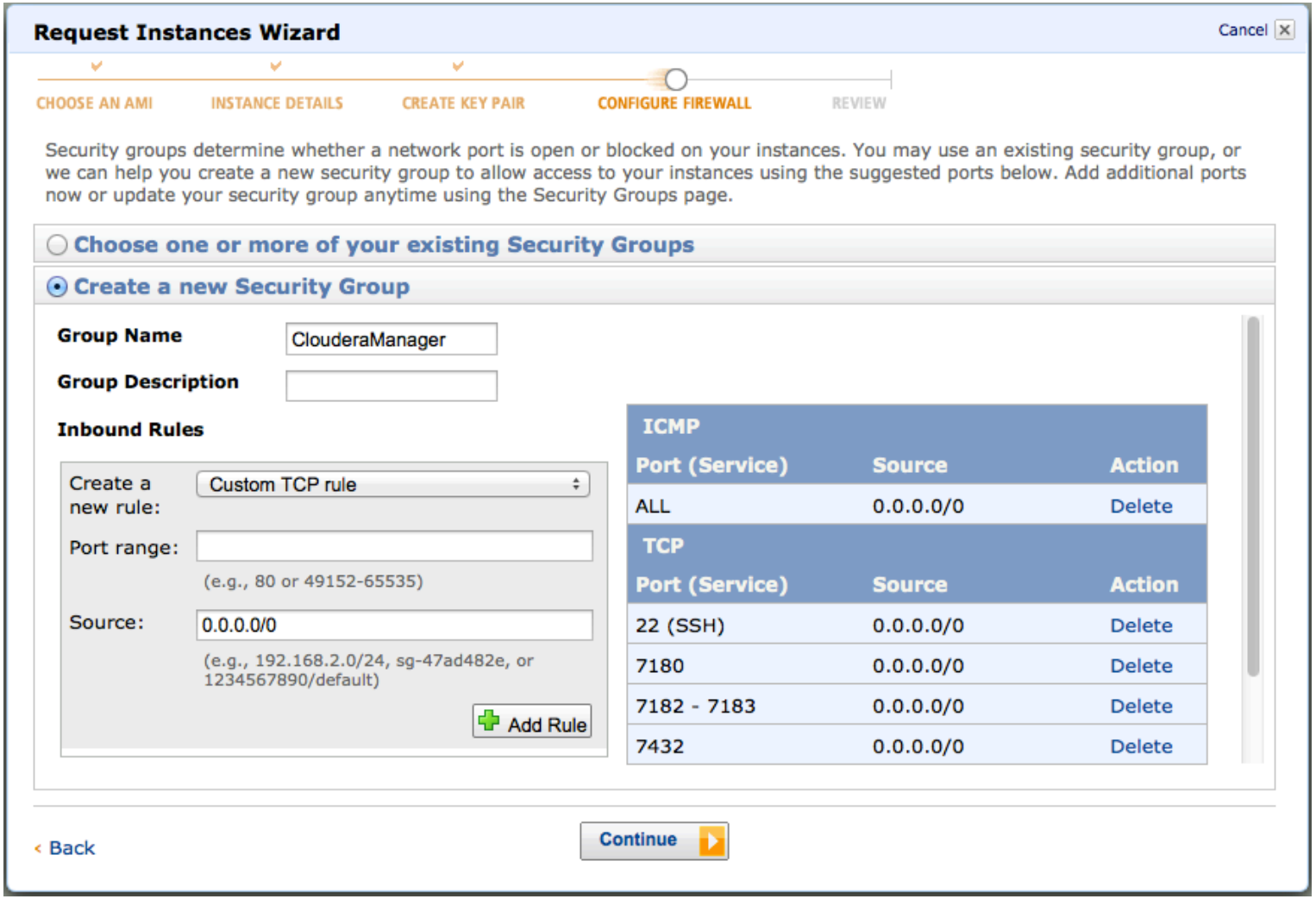
Create Name Node: m1.large

Can use defaults for most Wizard screens except Firewall



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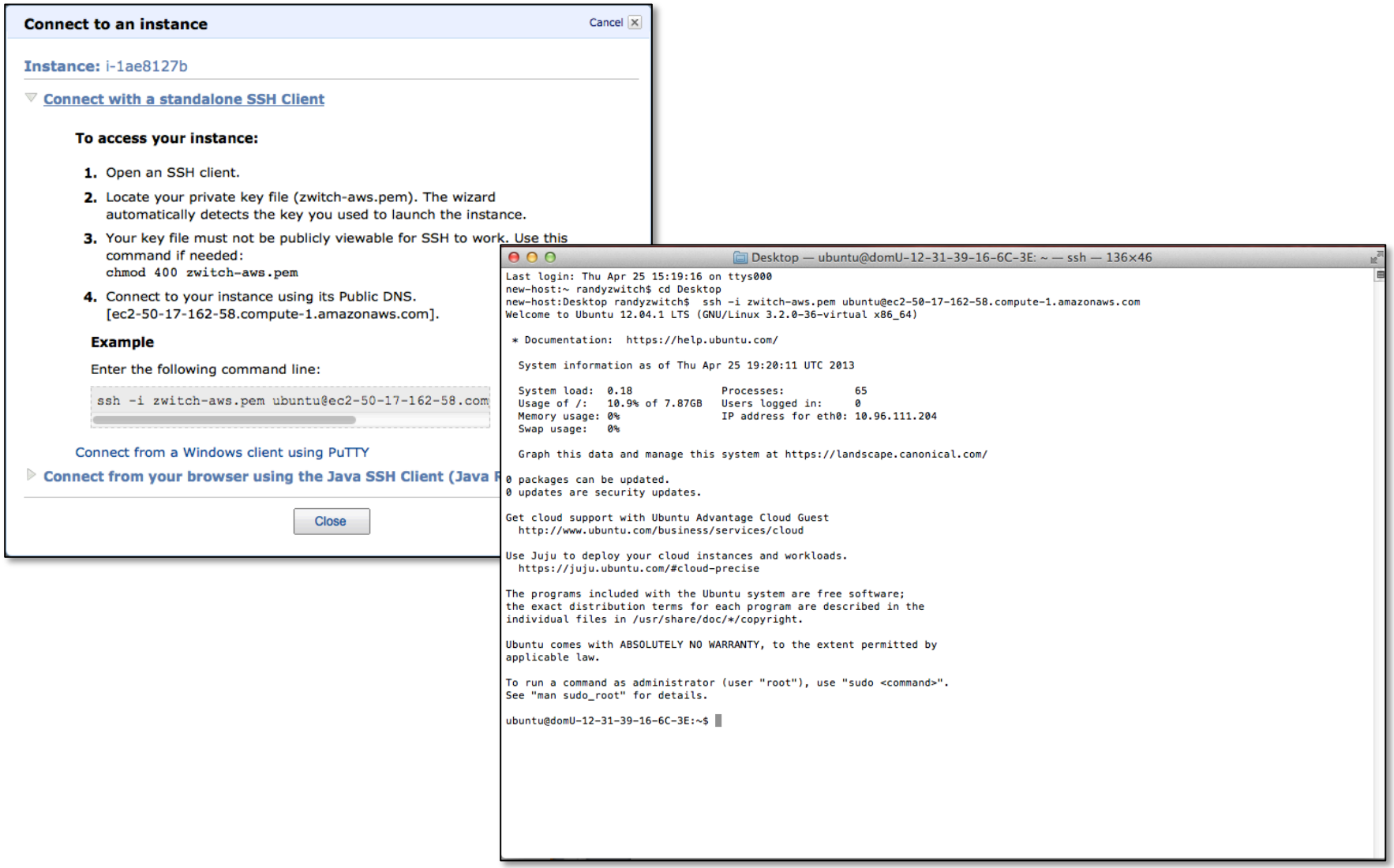
Launch Instance, Connect Via SSH



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Download & Run Cloudera Manager

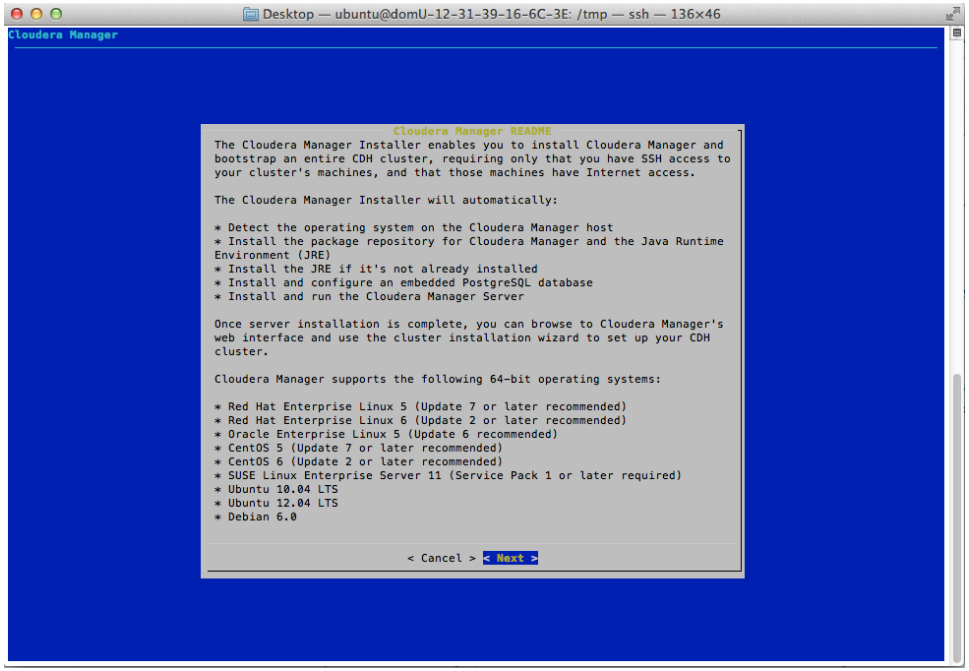
Depending on settings, might need to run as “sudo”

```
ubuntu@domU-12-31-39-16-6C-3E:~$ cd /tmp
ubuntu@domU-12-31-39-16-6C-3E:/tmp$ wget http://archive.cloudera.com/cm4/installer/latest/cloudera-manager-installer.bin
--2013-04-25 19:24:44--  http://archive.cloudera.com/cm4/installer/latest/cloudera-manager-installer.bin
Resolving archive.cloudera.com (archive.cloudera.com)... 184.73.217.71
Connecting to archive.cloudera.com (archive.cloudera.com)|184.73.217.71|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 501701 (490K) [application/octet-stream]
Saving to: `cloudera-manager-installer.bin'

100%[======================================================================================>] 501,701     --.-K/s   in 0.02s

2013-04-25 19:24:44 (19.9 MB/s) - `cloudera-manager-installer.bin' saved [501701/501701]

ubuntu@domU-12-31-39-16-6C-3E:/tmp$ chmod +x cloudera-manager-installer.bin
ubuntu@domU-12-31-39-16-6C-3E:/tmp$ ./cloudera-manager-installer.bin
```



Might take 5 or so minutes to go through licensing and installation menus

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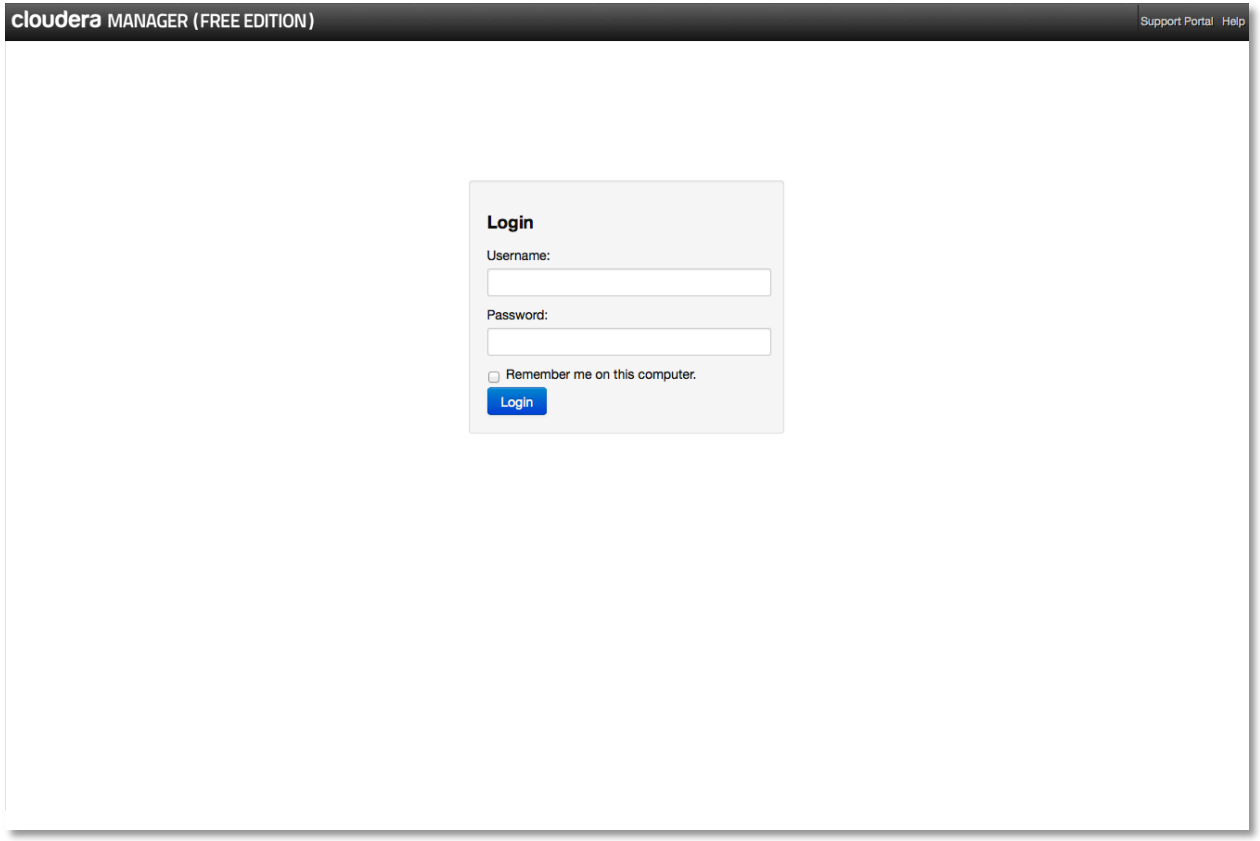
Open browser And Go To EC2 Instance Public DNS At Port 7180

Ex: *http://ec2-50-17-162-58.compute-1.amazonaws.com:7180*

On this first login, you set your username and password credentials



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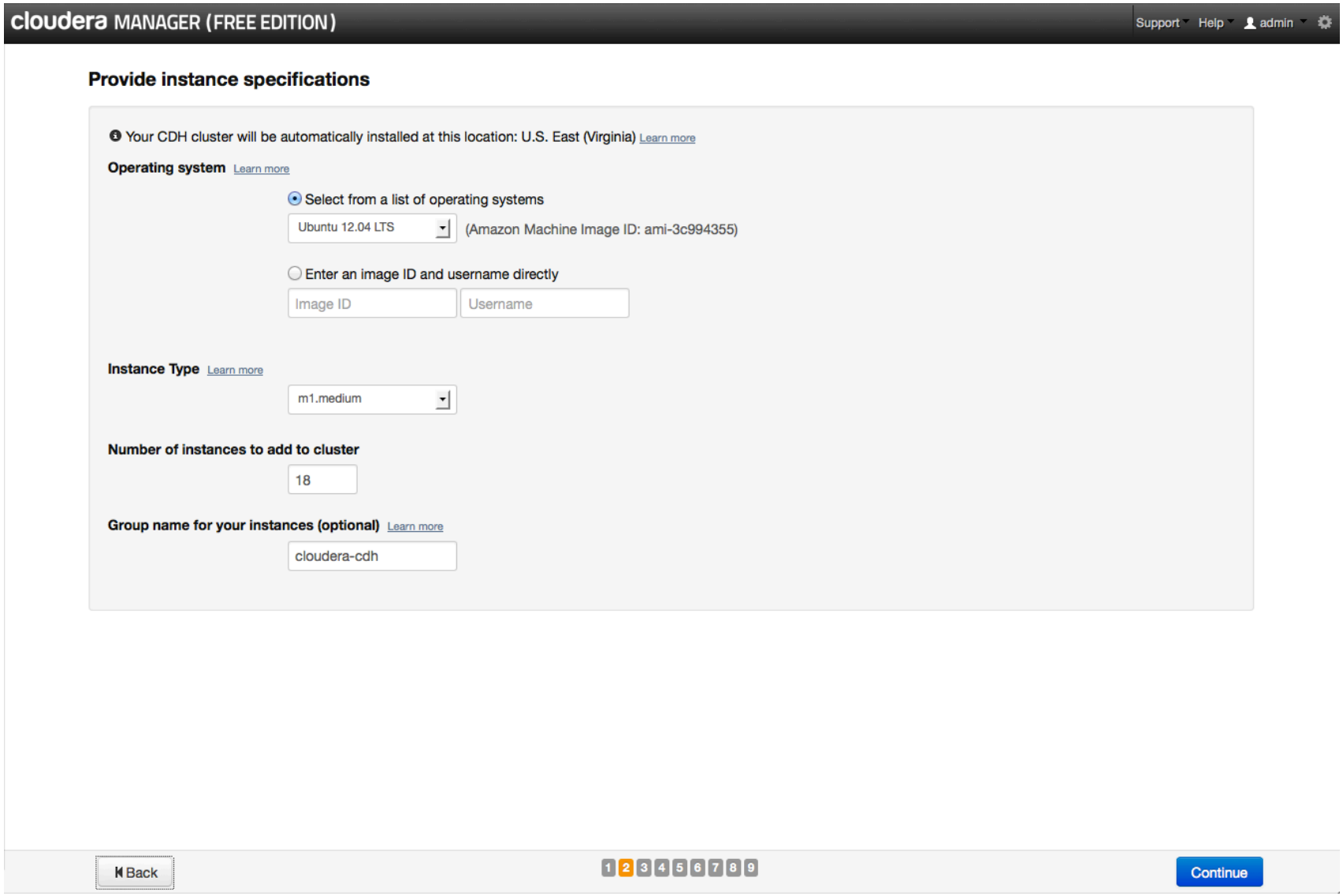
Use Defaults,‘18’ for instances



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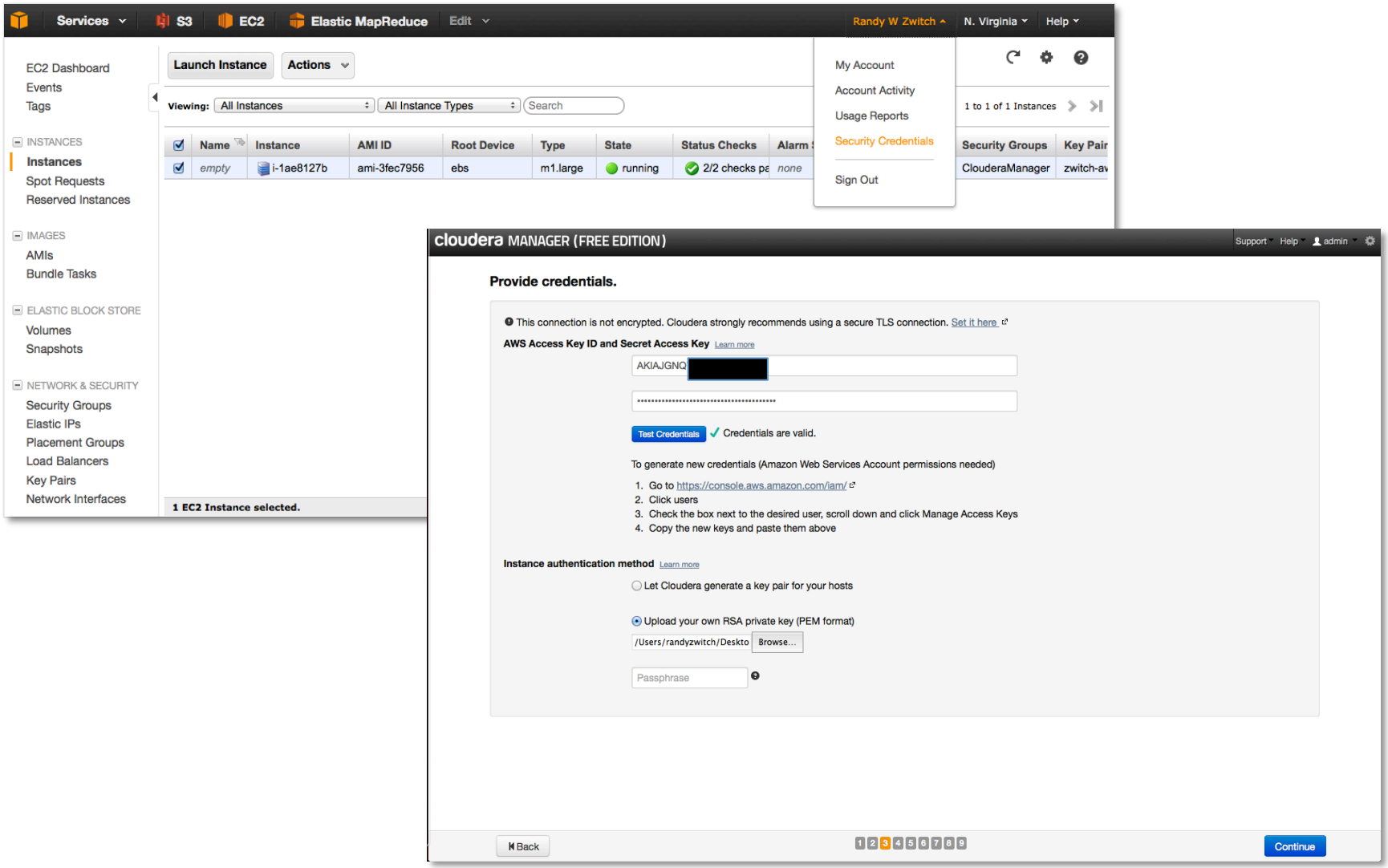
Type In AWS Access Key ID & Secret Access Key

Credentials can be found under “Security Credentials” in EC2 dashboard



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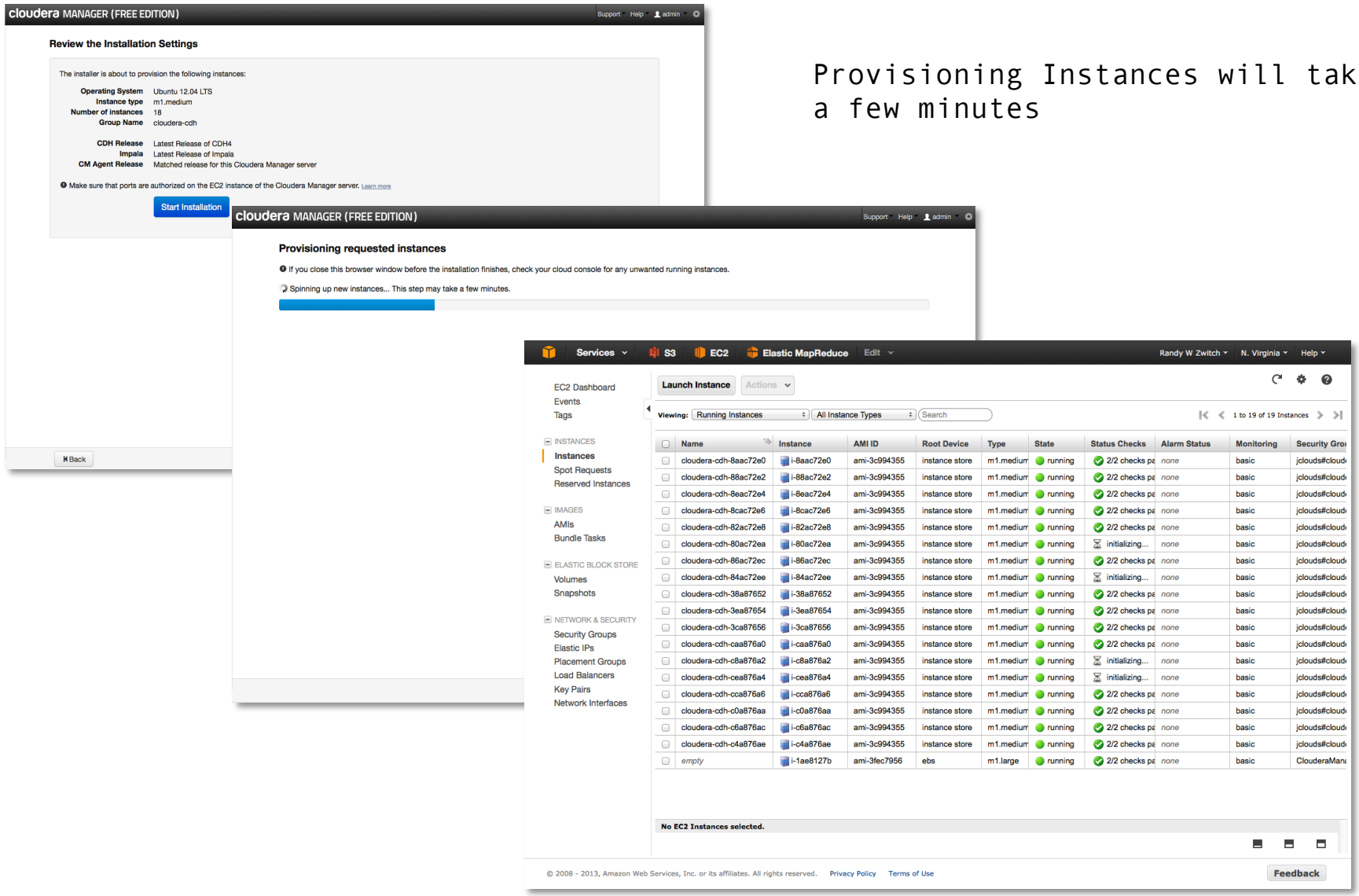
Review Settings Then Install!



Provisioning Instances will take a few minutes

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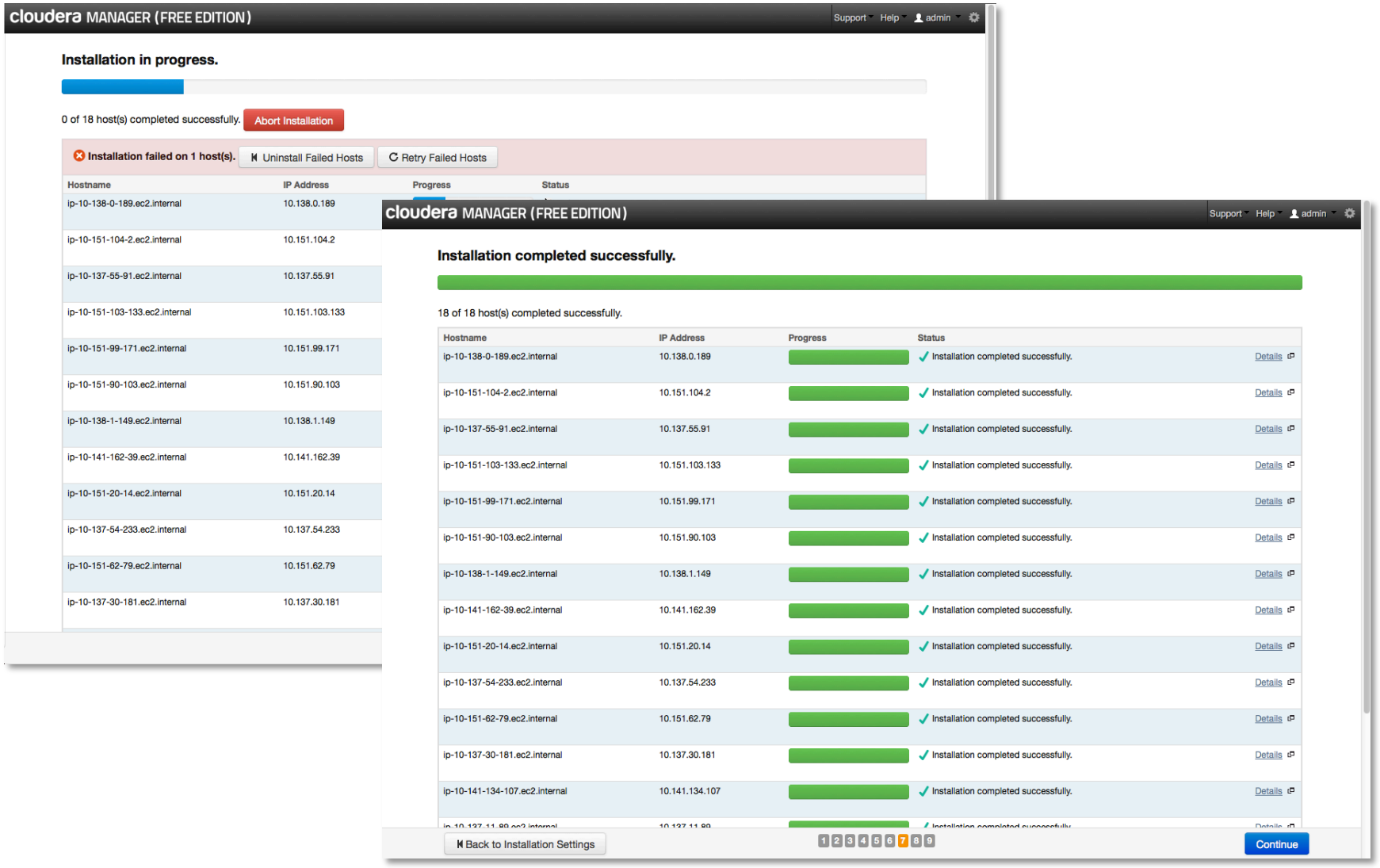
If Any Installations Fail, Retry Until Success



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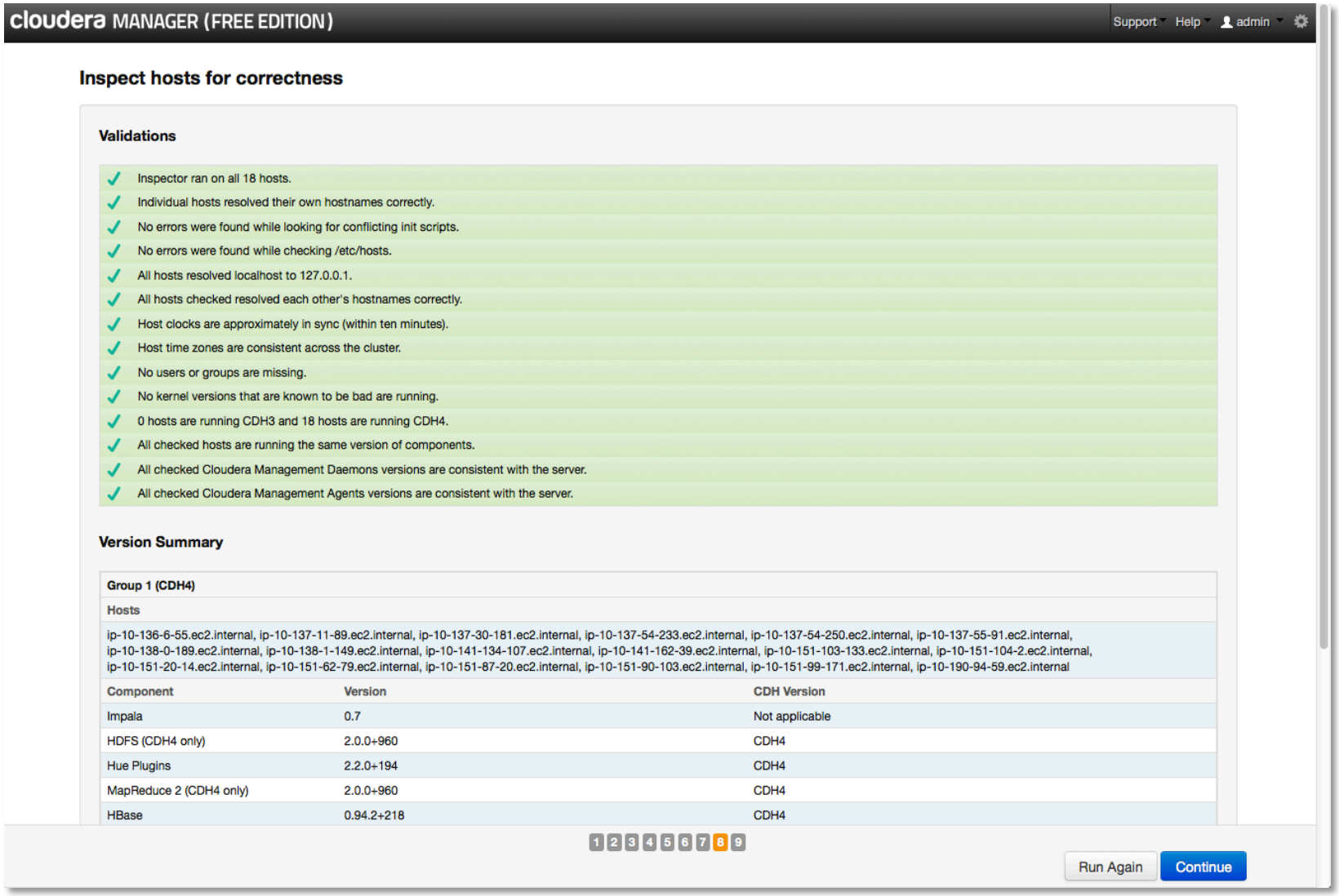
Make Sure Consistency Check Passes



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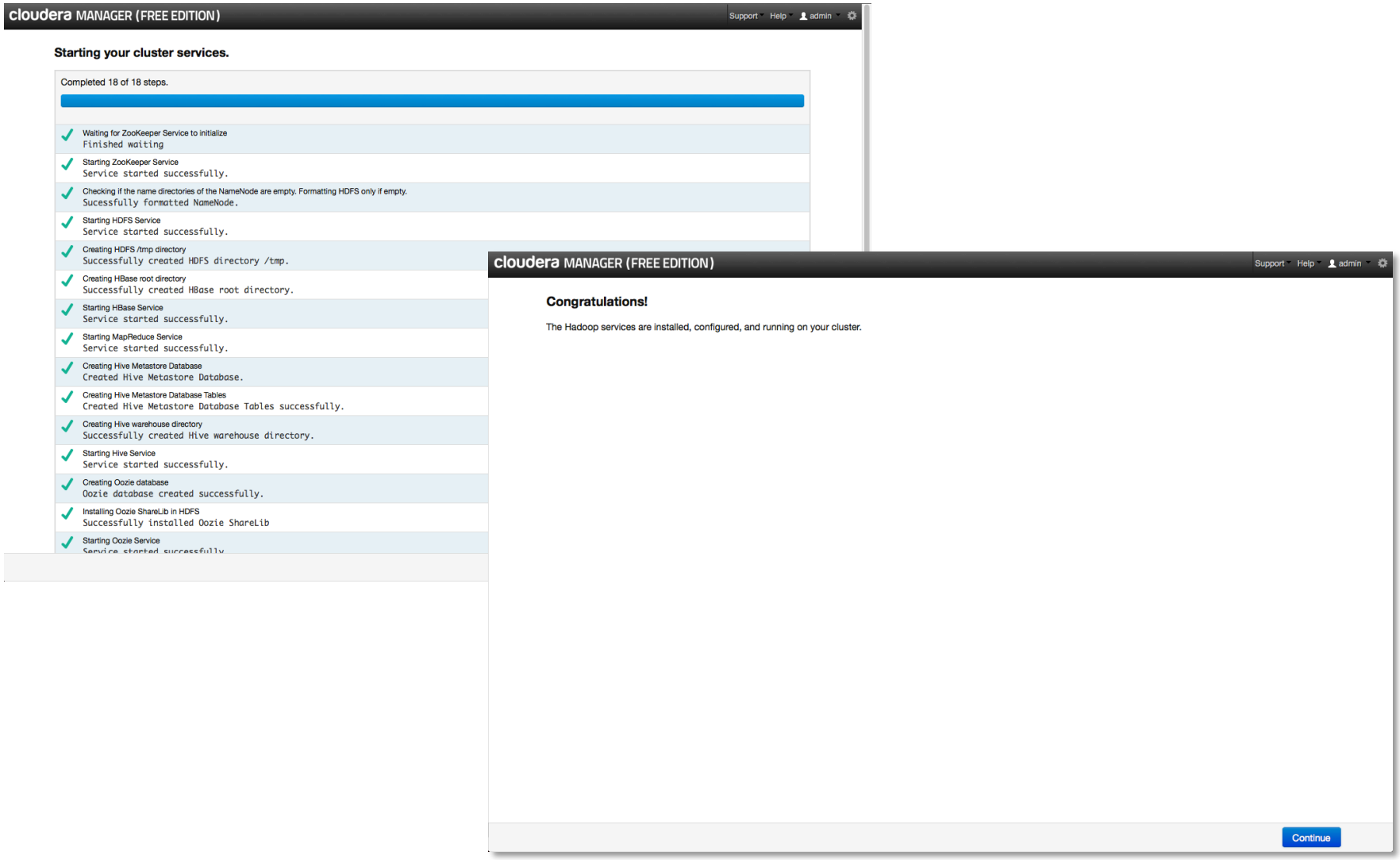
Cluster Services Will Start, Then Success!



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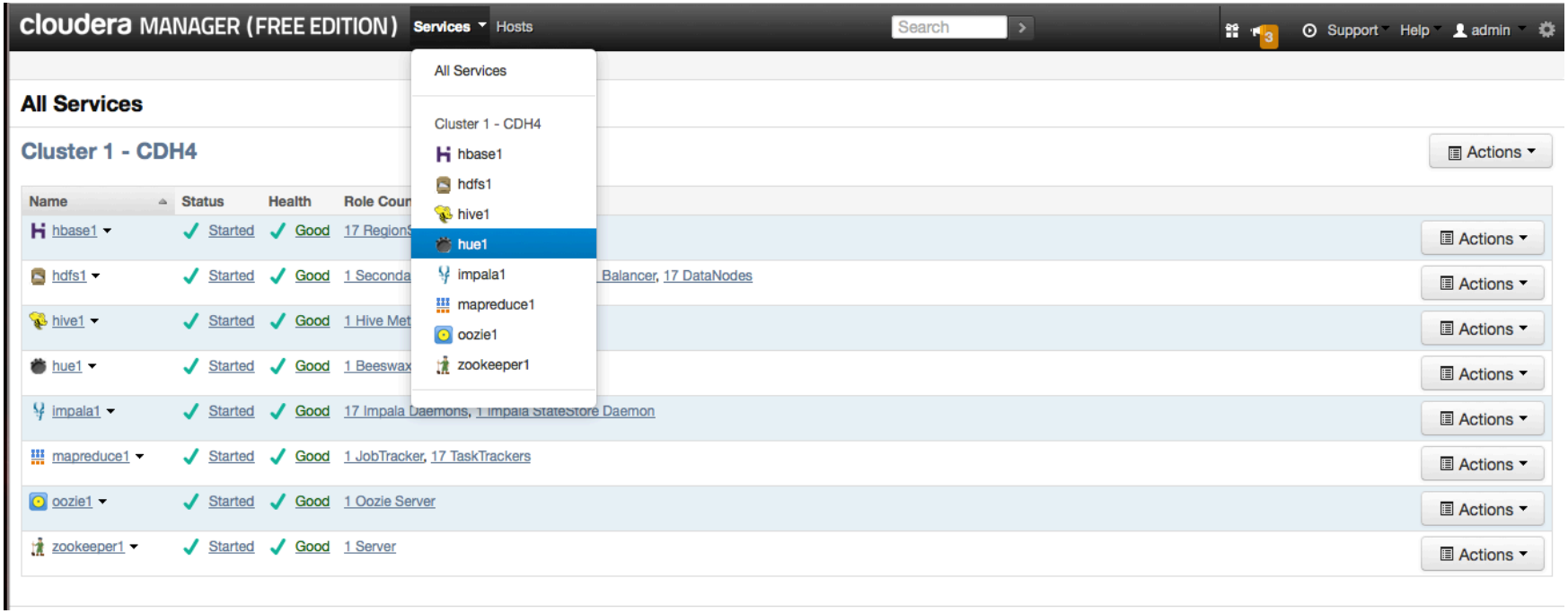
Finding Hue Public DNS

Hue (Hadoop User Experience) is the more user-friendly way to interact with Hadoop



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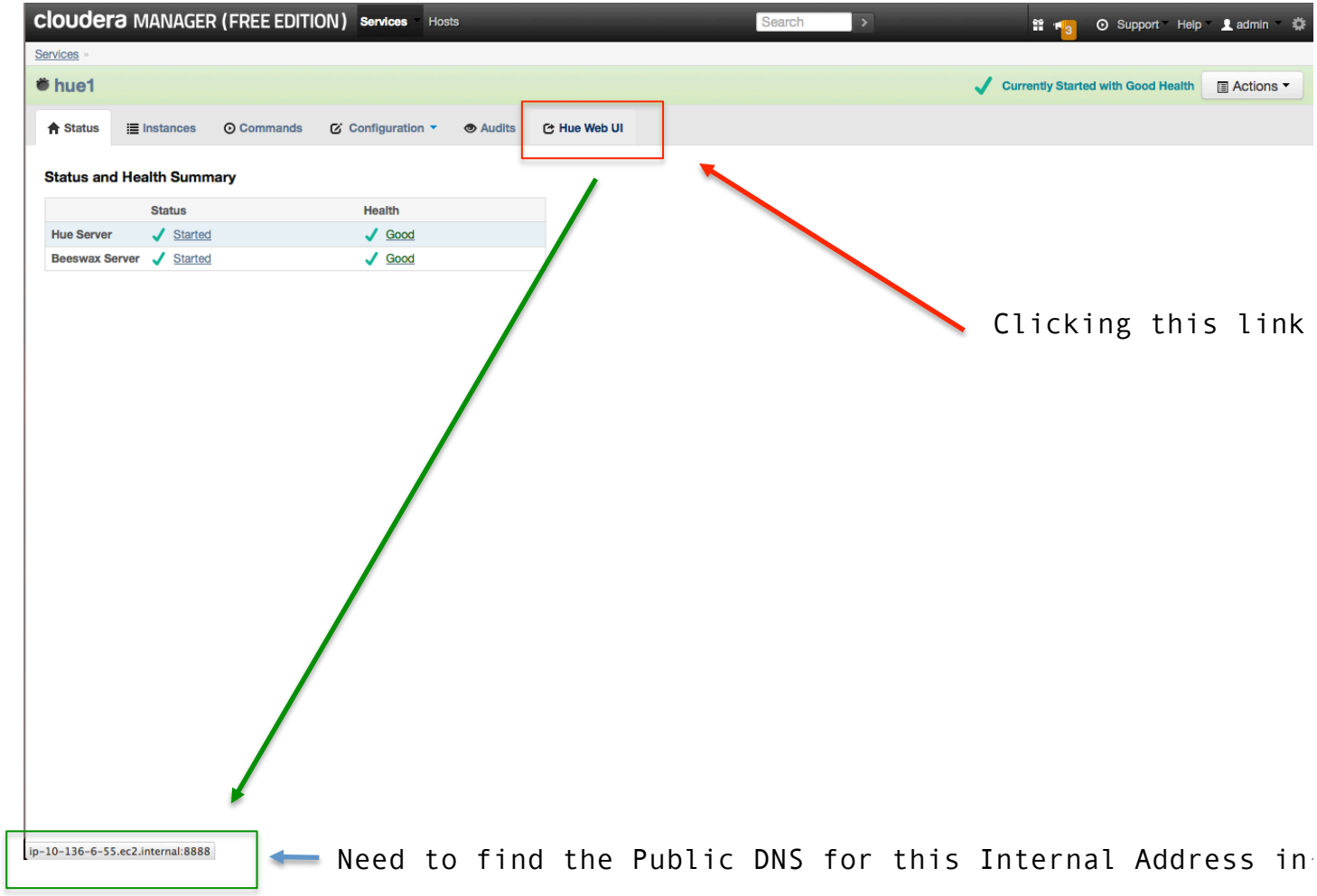
Finding Hue Public DNS

Clicking on the “Hue Web UI” button doesn’t work, because it references the Internal Address for Amazon EC2



Clicking this link button won’t work!

Need to find the Public DNS for this Internal Address in Amazon Dashboard

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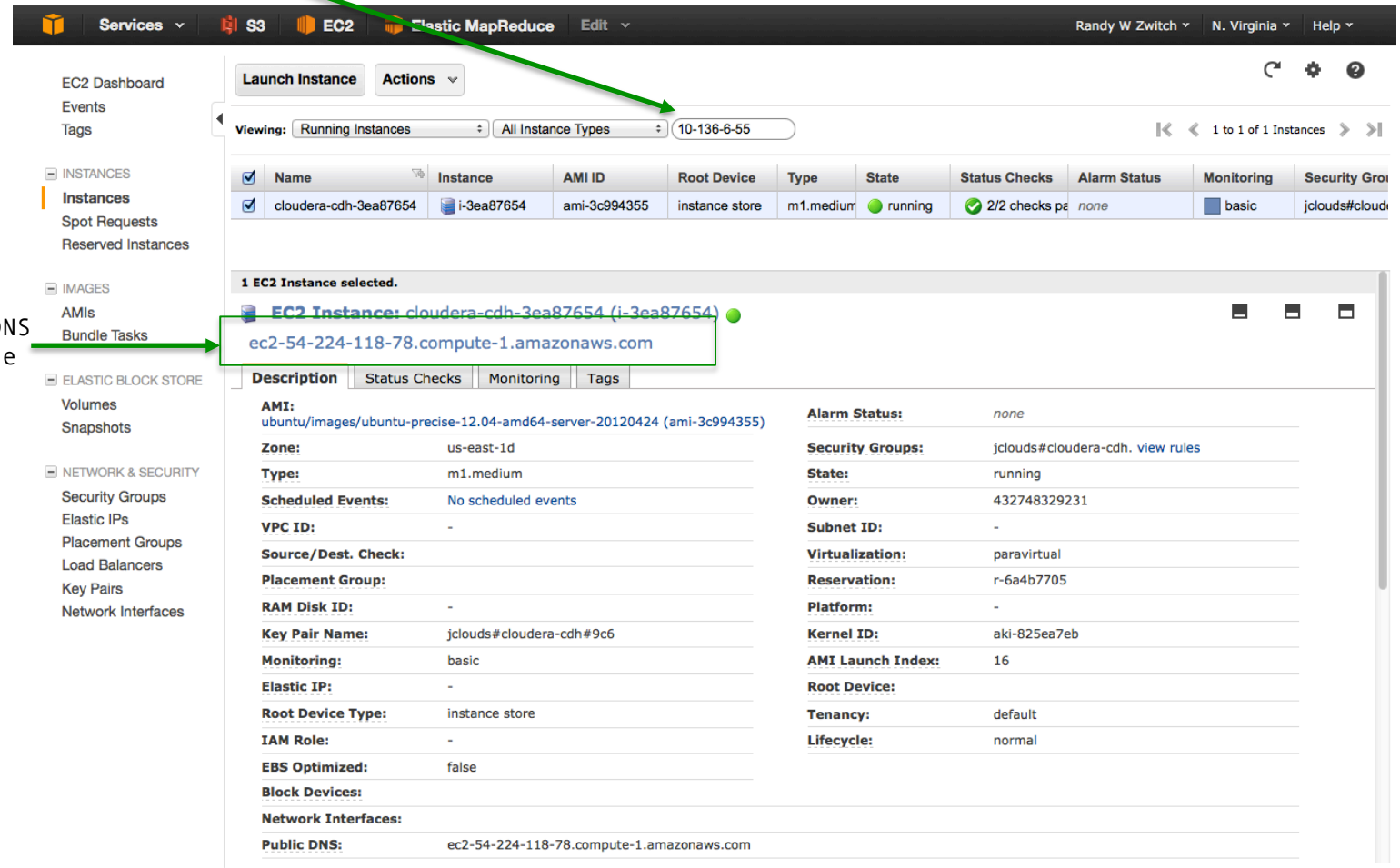
Finding Hue Public DNS

Type in Internal Address in Search Box to find the Instance having Hue

ip-10-136-6-55.ec2.internal:8888



This is the public DNS Address to access Hue

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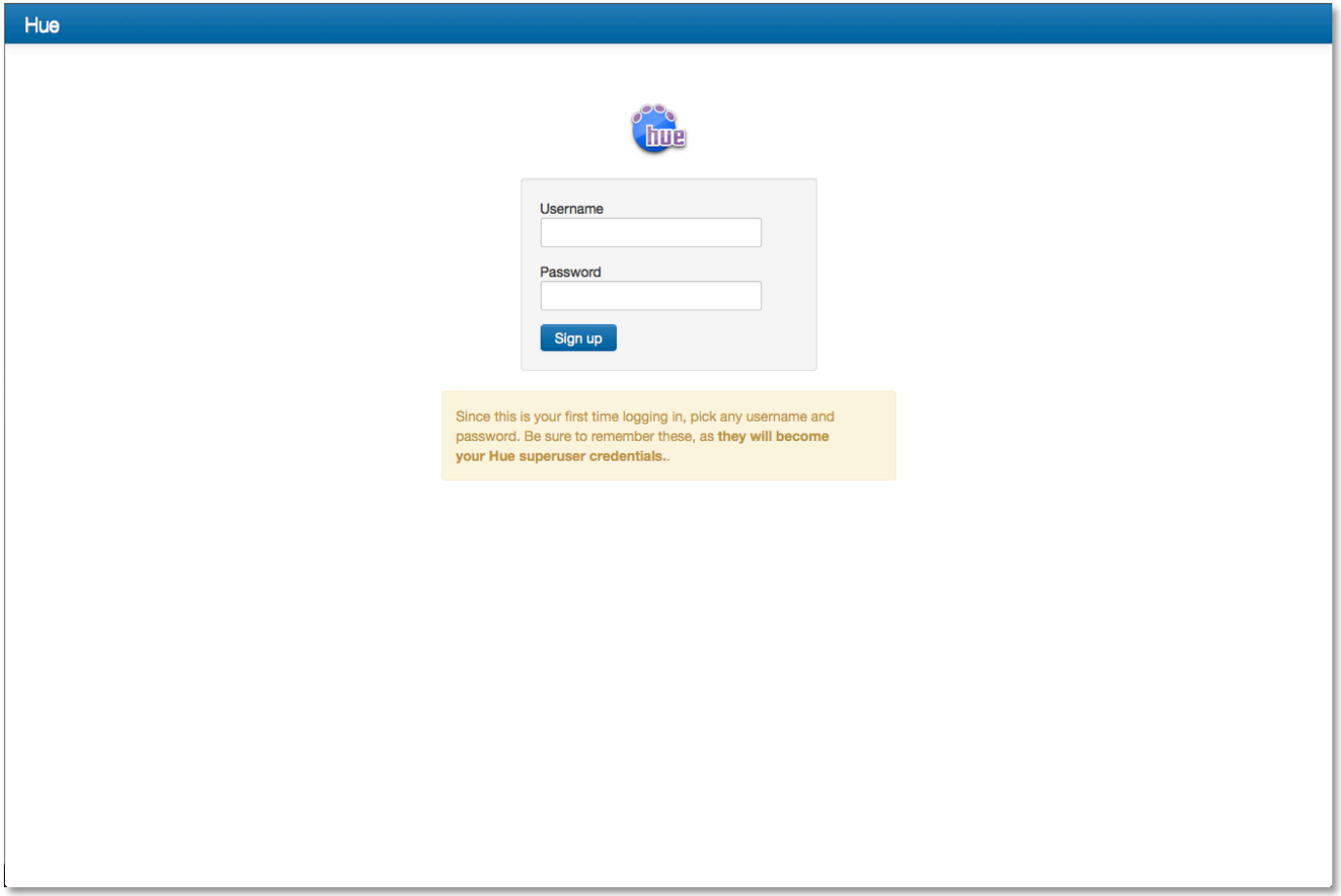
Finding Hue Public DNS

Hue is accessed via Port 8888
Ex: *http://ec2-54-224-118-78.compute-1.amazonaws.com:8888*

Pick your username/password carefully, this is the superuser



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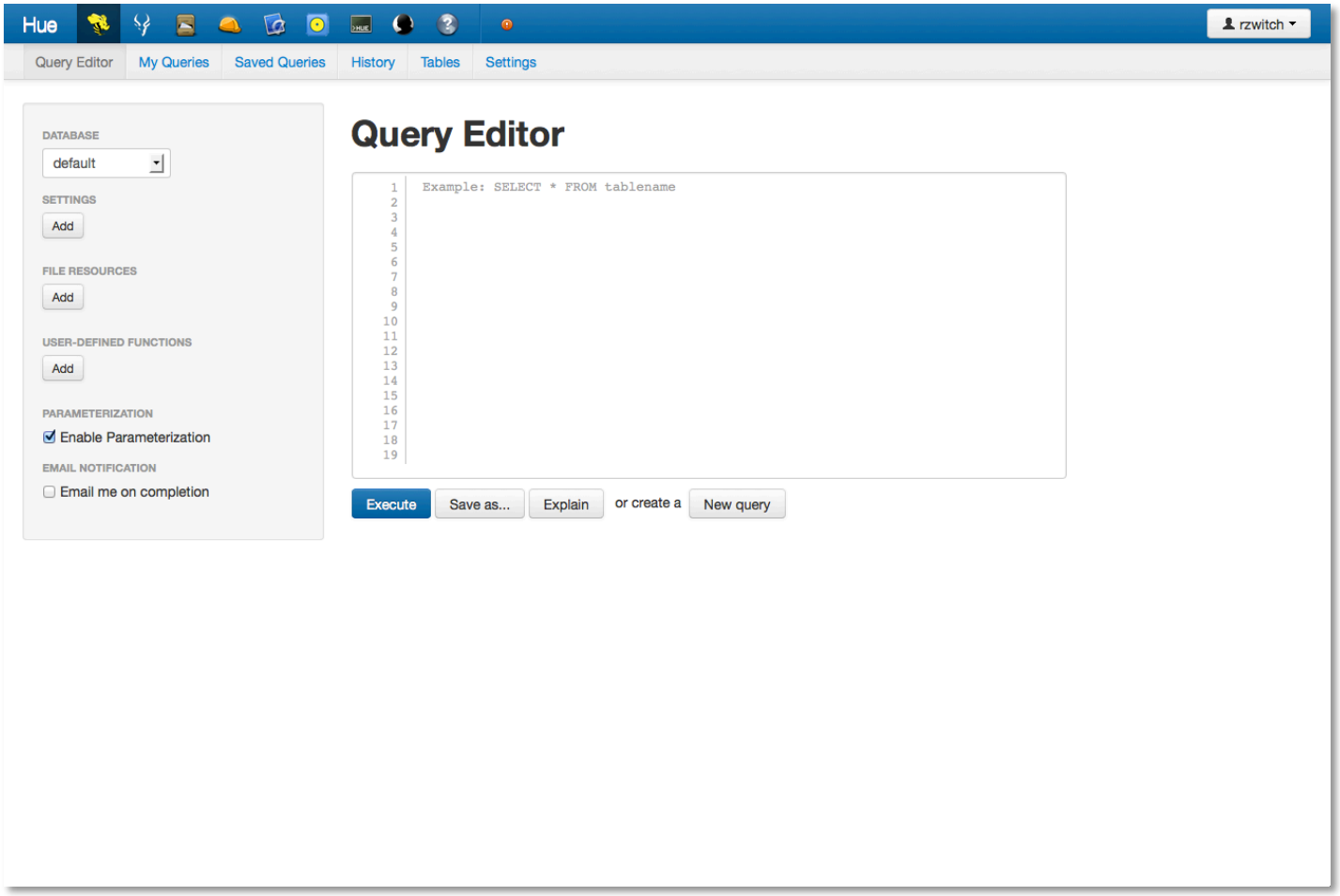
If You See Hue, You're Ready For Analysis!

This is the Hive editor, which allows for SQL-Like Syntax to create MapReduce jobs



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Reference

http://blog.cloudera.com/blog/2013/03/how-to-create-a-cdh-cluster-on-amazon-ec2-via-cloudera-manager/