

1. Test System

the Cloud/Cluster/Storage/Walrus Front End Server

> Atom PC (192.168.2.146)

the Node Controller(s)

> DL320G5 (192.168.2.119)

- Install the Cloud/Cluster/Storage/Walrus Front End Server Ubuntu 9.10 Server CD
 - > Install ubuntu Enterprise Cloud
 - > Cluster
 - > IP range
- 3. Install the Node Controllers(s)
 - > Install ubuntu Enterprise Cloud
 - > Node
- 4. Register the Node(s)

On NC

> sudo passwd eucalyptus

On CLC

- > sudo -u eucalyptus ssh-copy-id -i ~eucalyptus/.ssh/id_rsa.pub eucalyptus@192.168.2.119
- > sudo euca_conf -addnode 192.168.2.119

5. Obtain Credentials

From a Command Line

On CLC

- > mkdir -p ~/.euca
- > chmod 700 ~/.euca
- > cd ~/.euca
- > sudo euca_conf -get-credentials mycreds.zip
- > unzip mycreds.zip
- > cd -

6. Extracting and Using Your Credentials

- > . ~/.euca/eucarc
- > echo "[-r ~/.euca/eucarc] && . ~/.euca/eucarc" >> ~/.bashrc
- > sudo apt-get install euca2ools
- > . ~/.euca/eucarc
- > euca-describe-avaiability-zones verbose

AVAILABILITYZONE	jwcluster	192.168.2.146		
AVAILABILITYZONE	- vm types	free / max cpu	ram	disk
AVAILABILITYZONE	- m1.small	0002 / 0002 1	128	2
AVAILABILITYZONE	- cl.medium	0002 / 0002 1	256	5
AVAILABILITYZONE	- m1.large	0001 / 0001 2	512	10
AVAILABILITYZONE	- m1.xlarge	0001 / 0001 2	1024	20
AVAILABILITYZONE	- c1.xlarge	0000 / 0000 4	2048	20

7. Install an image from the store

- > https://192.168.2.146:8443 (id/pwd : admin/admin)
- > Store Tab > Install (download image)

8. Run an Image

- > Use the command line
- > if [! -e ~/.euca/mykey.priv]; then
 touch ~/.euca/mykey.priv
 chmod 0600 ~/.euca/mykey.priv
 euca-add-keypair mykey > ~/.euca/mykey.priv
 fi
- > euca-describe-groups
- > euca-authorize default -P tcp -p 22 -s 0.0.0.0/0
- > euca-run-instances \$EMI -k mykey -t c1.medium

(\$EMI: https://192.168.2.146:8443 다운받은 이미지 How to run? 클릭으로 확인)

- > 확인
- > watch -n5 euca-describe-instances

(state : pending → running)

RESERVATION r-30F206E0 admin default
INSTANCE i-3C4706BE emi-DFAC106E 192.168.3.10 172.19.1.2
pending mykey 0 cl.medium 2010-03-04T00:52:27.052Z
jwcluster eki-F5D610E6 eri-0A70115C

- > IPADDR=\$(euca-describe-instances | grep \$EMI | grep running | tail -n1 | awk '{print \$4}') ex) 192.168.3.10
- >접속: ssh -i ~/.euca/mykey.priv ubuntu@\$IPADDR
- > INSTANCEID=\$(euca-describe-instances | grep \$EMI | grep running | tail -n1 | awk '{print \$2}') ex) i-3C4706BE
- > terminate instance

on CLC

euca-terminate-instance \$INSTANCEID

> reboot instance

on CLC

euca-reboot-intance \$INSTANCEID

- 9. Using Block Storage
 - > Creating a volume

euca-create-volume -size 1 -z myzone (myzone에 1G 추가) (euca-describe-availability-zones verbose에서 zone확인)

> Attaching a volume to an instance

euca-attach-volume -i i-467307E6 -d /dev/sdb vol-332804B7

- => instance i- 467307E6에 device명 /dev/sdb으로 volume vol-332804B7 attach
- > Detaching a volume

euca-detach-volume vol-332804B7

- > Delete a volume (detach → delete) euca-delete-volume vol-332804B7
- > Creating a snapshot euca-create-snapshot vol-332804B7

snapshot으로 volume 생성하기

- > euca-create-volume -snapshot <snapshot-id> -zone <zone>
- > euca-describe-volumes로 volume ID확인
- > euca-attach-volume -i i-467307E6 -d /dev/sdb vol-332804B7