

Amazon AWS Q & A

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Amazon EC2 ????????

????

- ?????????????????????? EC2?S3???????
- EC2 ??? Instance????????????????? Instnace ? Terminate ????????
- EC2 ?? Instance ?????????????????????? <http://www.ec2instances.info/> ?
- S3 ??????????????????????(PUT, COPY, POST,etc....)?

?? Instance

- ?????? Instance ?????? Key Pair?Instance Type? Security Group?????????????????
- ? AMI ????? Instance ?????????????????????? AWS Console ? Instance Terminate ?????????????????????? reboot??? EBS ??????????????

?? Root Device

- Instance Store

? ?????? / ????????????? 150 GB ? /mnt
 ? Instance ??? Reboot, Terminate
 ? ??????????????????
 ? / ??? snapshot
 ? / volume ??????

- EBS
 - ? ????????? Instance ?????
 - ? Instance??? Stop, Start, Reboot, Terminate
 - ? ?????????????????????????????????
 - ? / ??? snapshot
 - ? / volume ??????????

?? AMI

- ??? AMI ????????????? AMI ??? Credential(???? X.509 ???)????????????

?? Key Pair

- ??? Key Pair ????????????????????????????????? Instance ?????? Key Pair ??

?? AKI

- ?? Instance ????????????????? kernel????? AKI ID ??? kernel?
- ?????? [2.6.18-xenU\(aki-9b00e5f2, etc...\)](#)?????????????????
- ?????? aki-id ? kernel ????????? API Tool??????

EC2 Network (Internal network)

???? EC2 Instances ???

- ?? Instance ?????? private IP ? private DNS name
- ?? Security Group ??????? Instance ????
- private IP & DNS ????????? Instance ?????????

????? Instance ??????????

?? Security Group

- Port range?3306 (? MySQL ??)
- Source?10.1.2.3/29 (?? inbound ? IP)
 - ? security group ??? inbound ?????? 10.1.2.3 ??? mysql client instance????? security group ???
 - ?? mysql server instance?
 - ? sub-mask ??? 29?

????? ping

4. ?? root????????? console?

(<http://docs.amazonwebservices.com/AW...tml?putty.html>)

How to create pk-*.pem & cert-*.pem for API-Tools

- Login at <http://aws.amazon.com/>
- Go to [Security Credentials](#)
- Click X.509 Certificates > Create a new certificate
Download Private Key File, save as pk-*.pem
Download X.509 Certificate, save as cert-*.pem

Notes: The Private key file can only be downloaded at once.

Making an AMI from existing instance

Today I will describe in short how to create an AMI instance of EC2 and then upload it to S3 server. All you need to have is running instance of EC2 server (I'm using Debian) with EC2 tools preinstalled.

First of all, make sure that you don't have any unnecessary files on your server filesystem which you don't need to bundle in an image as it will only slow the process down and make your costs of storing backup images higher.

Once you are sure that your instance is fine and EC2 tools are in place you have to transfer your private key file and certificate file to the server. Let's put the files under /root directory.

If all is set up correctly, first of all, we create an image by running:

```
ec2-bundle-vol -d /mnt -k /root/pk-yours.pem --cert /root/cert-yours.pem -u 012345678901
```

The number after the -u flag is your Amazon account ID which you can find on the AWS website once logged in.

Running above command will take a bit and will create a number of files under /mnt directory.

Once we have the files and manifest ready (all happens auto-magically) we can start transferring the image onto S3 account.

In order to transfer your image on S3 you would have to create a bucket there first, for this you can use famous firefox plugin (S3 Organizer) or do it using Affirma's library (previous post).

```
ec2-upload-bundle -b yourbucketname00404042009 -m /mnt/image.manifest.xml -a your_s3_access_key -s your_s3_secret_access_key
```

If for some reason you encounter any problems during upload but your bundling went ok, you can retry the upload using -retry flag:

```
ec2-upload-bundle -b yourbucketname00404042009 -m /mnt/image.manifest.xml -a your_s3_access_key -s your_s3_secret_access_key --retry
```

????? AMI image

?????(???????????????????? description)

```
ec2-register -K pk-*.pem -C cert-*.pem your-bucket/image.manifest.xml -d this_is_description
```

NOTES:

? ???? Credential ??? AMI ??????????????????

? pk-*.pem, cert-*.pem ??? x509 ? key????? AWS Console ???

? ?????? AMI????? Elasticfox > Images > Filter: My AMIs ???

? ?????????????????? [ec2-register](#)?

?? AWS Console?

AWS Management Console > AMIs > Register New AMI

??S3 ? AMI ?????? your-s3-bucket/dir1/images.manifest.xml

Notes:

????????? AMI ?? private?????????

???? Private AMI ?????????????????? Public ??????????????????

AWS Management Console > AMIs > Viewing: Owned By Me, All Platforms > ?????? AMI

Permission > ?? Public ?????? AWS Account ID?

?? EC2 API Tools

API Tools Reference? <http://docs.amazonwebservices.com/AW...reference.html>

// ?? JRE 1.6 - jre-6u21-linux-i586.bin

<http://www.oracle.com/technetwork/java...ads/index.html>

// ?? JRE 1.6

```
# chmod u+x jre-6u21-linux-i586.bin
```

```
# ./jre-6u21-linux-i586.bin
```

```
# mv jre1.6.0_21/ /opt
```

// ?? JRE

```
# vi /etc/profile.d/java.sh
```


// Step5

SSH ?? instance????

```
# e2fsck -f /dev/sdb
# resize2fs -p /dev/sdb
# e2fsck -f /dev/sdb
# tune2fs -l /dev/sdb
```

// Step6

?? /dev/sdb????????????

?????

1. ???????? downtime ?????? snapshot ? mount/umount ??