EC2 만들기

지역 설정

Instance 만들기

Launch Instance

Resources

You are using the following Amazon EC2 resources in the Asia Pacific (Seoul) region:

0 Running Instances 0 Elastic IPs
0 Dedicated Hosts 0 Snapshots
0 Volumes 0 Load Balancers
0 Key Pairs 1 Security Groups
0 Placement Groups

Build and run distributed, fault-tolerant applications in the cloud with Amazon Simple Workflow Service.

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Ubnutu Server 선택

Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-09dc1267

Ubuntu

Free tier eligible

Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).

Root device type: ebs   Virtualization type: hvm

Select

64-bit

Instance Type(Free tier eligible) 체크 후 Review and Launch 선택

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs (i)	Memory (GiB)	Instance Storage (GB) (i)	EBS-Optimized Available (i)	Network Performance (i)
☐	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
☑	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
☐	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
☐	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate

Cancel   Previous   **Review and Launch**   Next: Configure Instance Details

Launch 선택

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

> ⚠ **Improve your instances' security. Your security group, launch-wizard-1, is open to the world.**
> Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.
> You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. Edit security groups

▼ AMI Details   Edit AMI

Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-09dc1267

Free tier eligible   Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).

Root Device Type: ebs   Virtualization type: hvm

▼ Instance Type   Edit instance type

Cancel   Previous   Launch

key pair 만들기
key 가 없으므로 create an existing key par 선택

Select an existing key pair or create a new key pair   ✕

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI .

Choose an existing key pair ▼
Choose an existing key pair
Create a new key pair
Proceed without a key pair

> ⚠ **No key pairs found**
> You don't have any key pairs. Please create a new key pair by selecting the
> **Create a new key pair** option above to continue.

Cancel   Launch Instances

key pair name 입력(구분할수 있는 이름)
Download Key Pair 로 .pem 파일 다운로드 후 Launch Instances 선택

Select an existing key pair or create a new key pair ✕

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Create a new key pair ▾

Key pair name

[   ]

Download Key Pair

💬 You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel   **Launch Instances**

서버 만들기 완료

Launch Status

✓ Your instances are now launching
The following instance launches have been initiated: i-0371d7f75868fbd11   View launch log

ℹ Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. Find out how to connect to your instances.
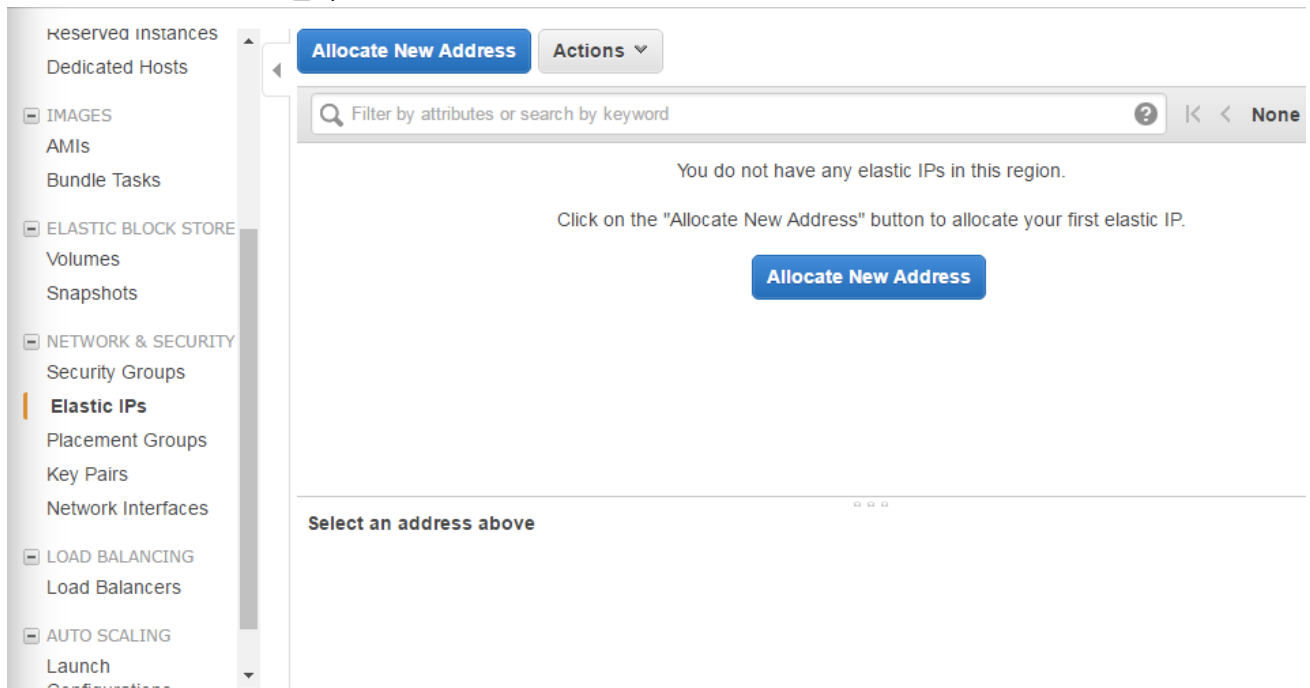
서버 확인
EC2 -> 좌측 Instances 선택
실행중인 서버 목록 확인 가능
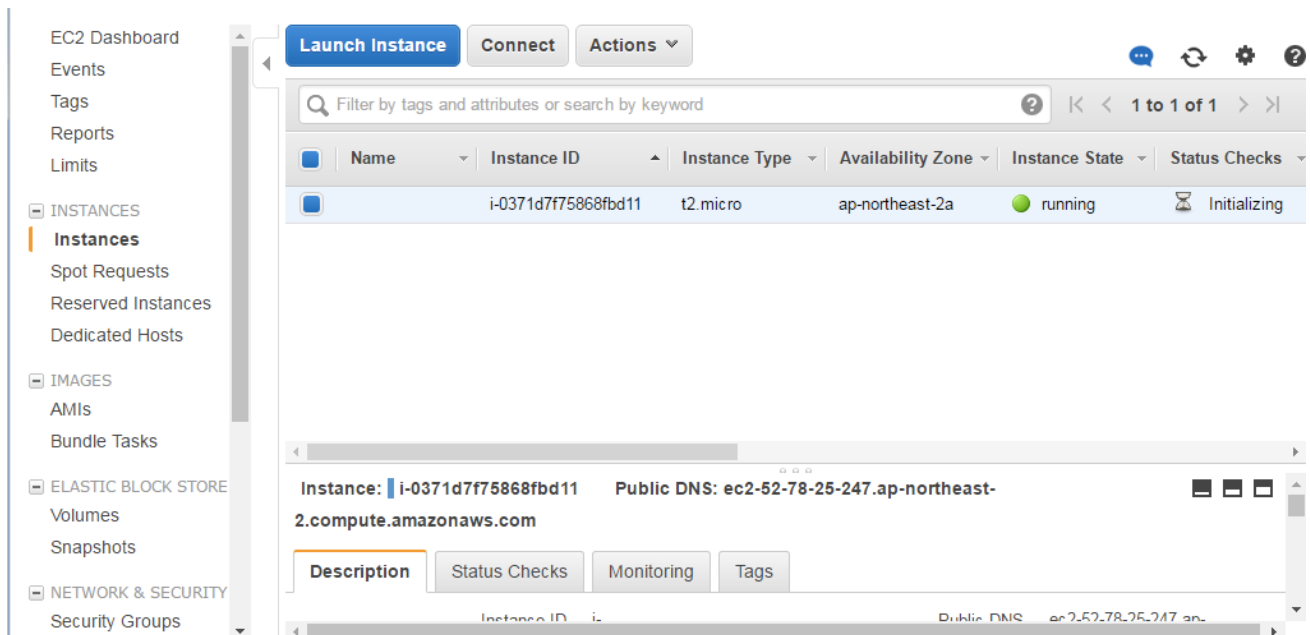
고정 IP 생성하기
EC2 -> 좌측 Elasic IPs 선택
Allocate New Address 선택

발급 후 Instance 연결

마우스 클릭으로 Associate Address 선택 후 팝업창에서 연결 인스턴스 선택

Associate Address

Select the instance OR network interface to which you wish to associate this IP address (52.78.37.73)

Instance Search instance ID or Name tag

i-08b452ba59c93e063 (accountant) (running)

Network Interface

Private IP Address Select instance or interface. ⓘ

☐ Reassociation ⓘ

⚠ **Warning**
If you associate an Elastic IP address with your instance, your current public IP address is released. Learn more about public IP addresses .

Cancel **Associate**

InBound 포트 설정
Instance 우측에 Security Groups - launch-wizard 선택

Filter by tags and attributes or search by keyword ❓ |< < 1 to 2 of 2 > >|

DNS	▾	Public IP	▾	Key Name	▾	Monitoring	▾	Launch Time	▾	Security Groups	▾
				accountant		disabled		June 9, 2016 at 2:33:24 PM …			
-78-37-73.ap-nort…		52.78.37.73		accountant		disabled		June 9, 2016 at 2:45:16 PM …		launch-wizard-2	

하단 InBound 탭 선택후 Edit 선택

Create Security Group **Actions ∨**

search : sg-e470e88d ✕ Add filter ❓ |< < 1 to 1 of 1 > >|

	Name	▾	Group ID	▲	Group Name	▾	VPC ID	▾	Description
☐	accountact		sg-e470e88d		launch-wizard-2		vpc-9945ebf0		launch-wizard-

Security Group: sg-e470e88d

| Description | **Inbound** | Outbound | Tags |

Edit

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
SSH	TCP	22	0.0.0.0/0

포트 추가
포트번호 : 3000 - 안드로이드 api 접속 포트
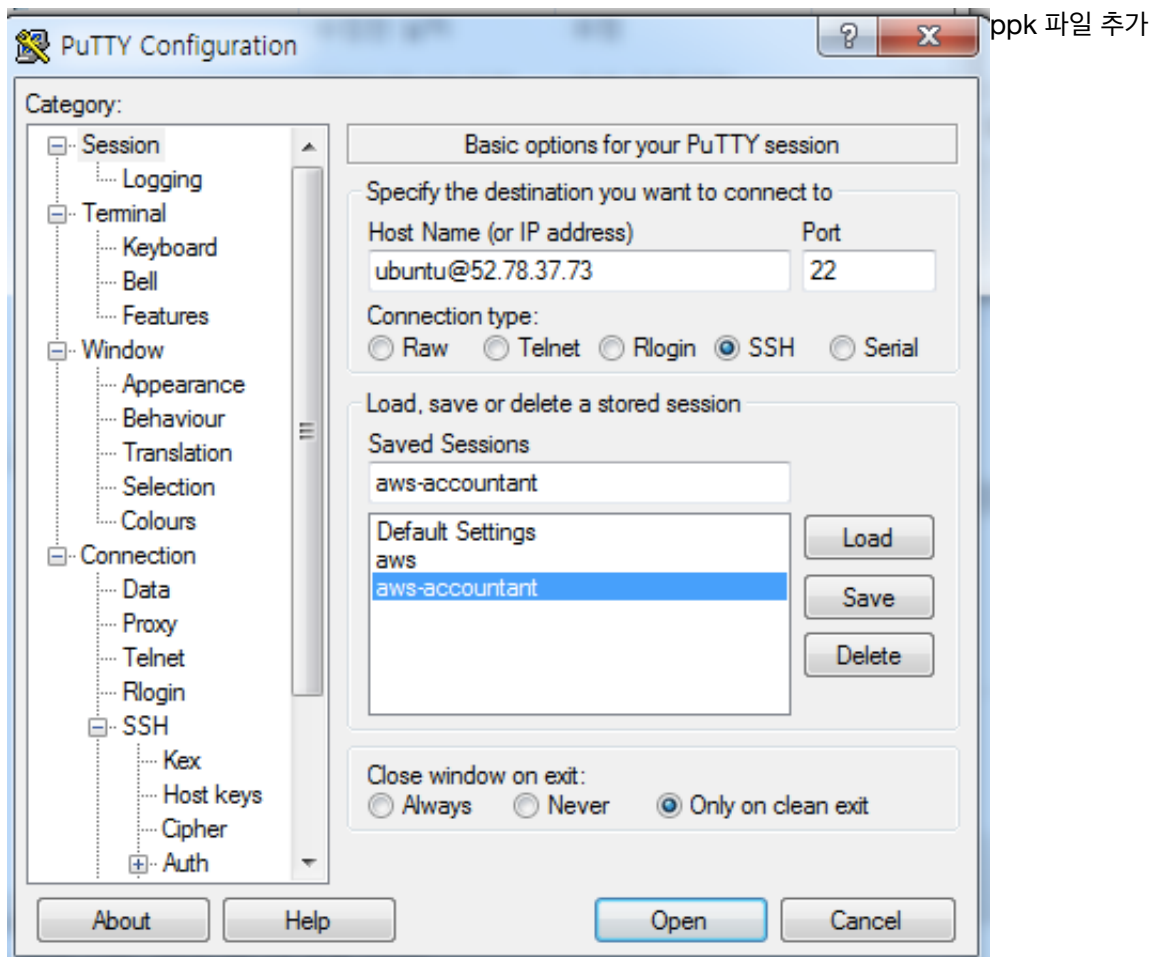포트번호 : 3002 - 관리자 페이지 접속포트

Add Rule 선택

설정 후 Save 선택

putty .ppk파일 만들기

PUTTYGEN.EXE 실행
Load 에서 pem 파일 선택 후 Save private key 선택 해서 저장
http://docs.aws.amazon.com/ko_kr/AWSEC2/latest/UserGuide/putty.html 참조
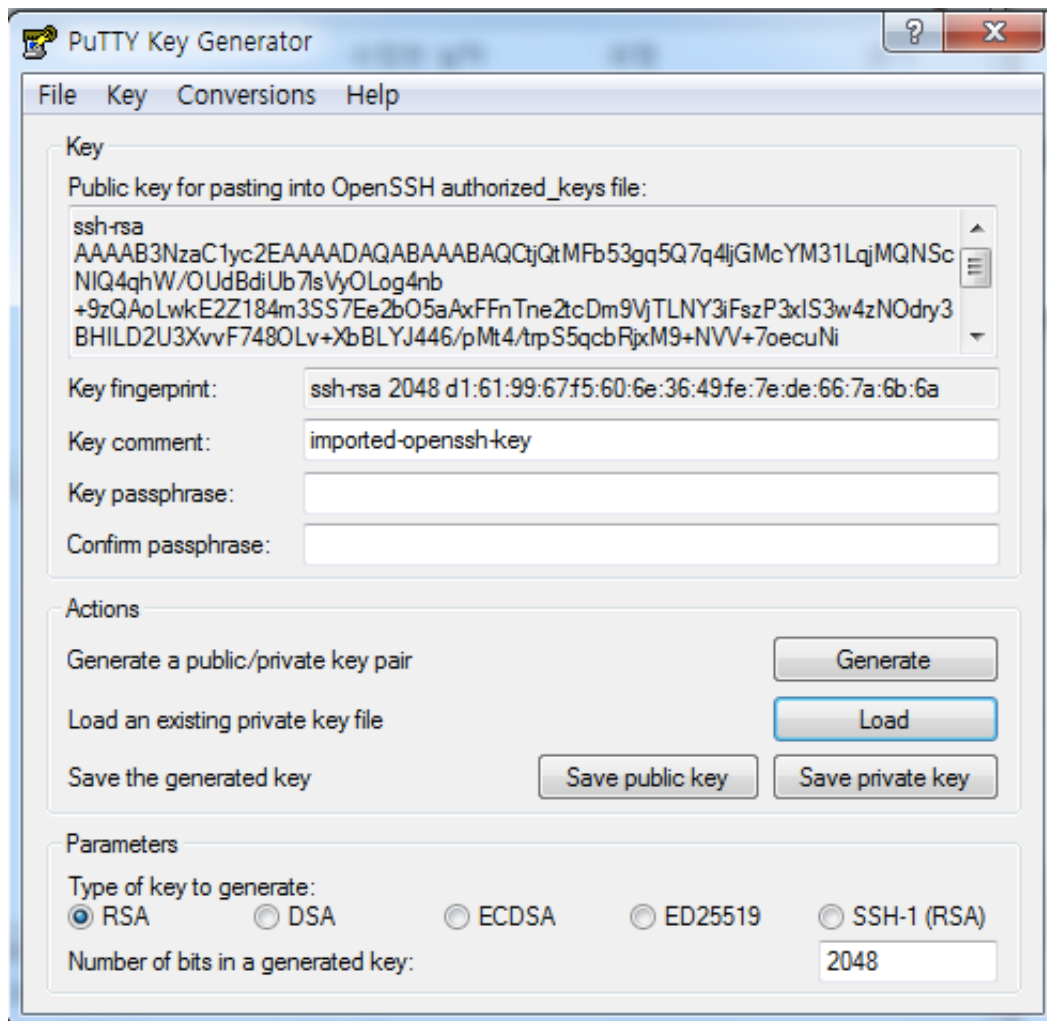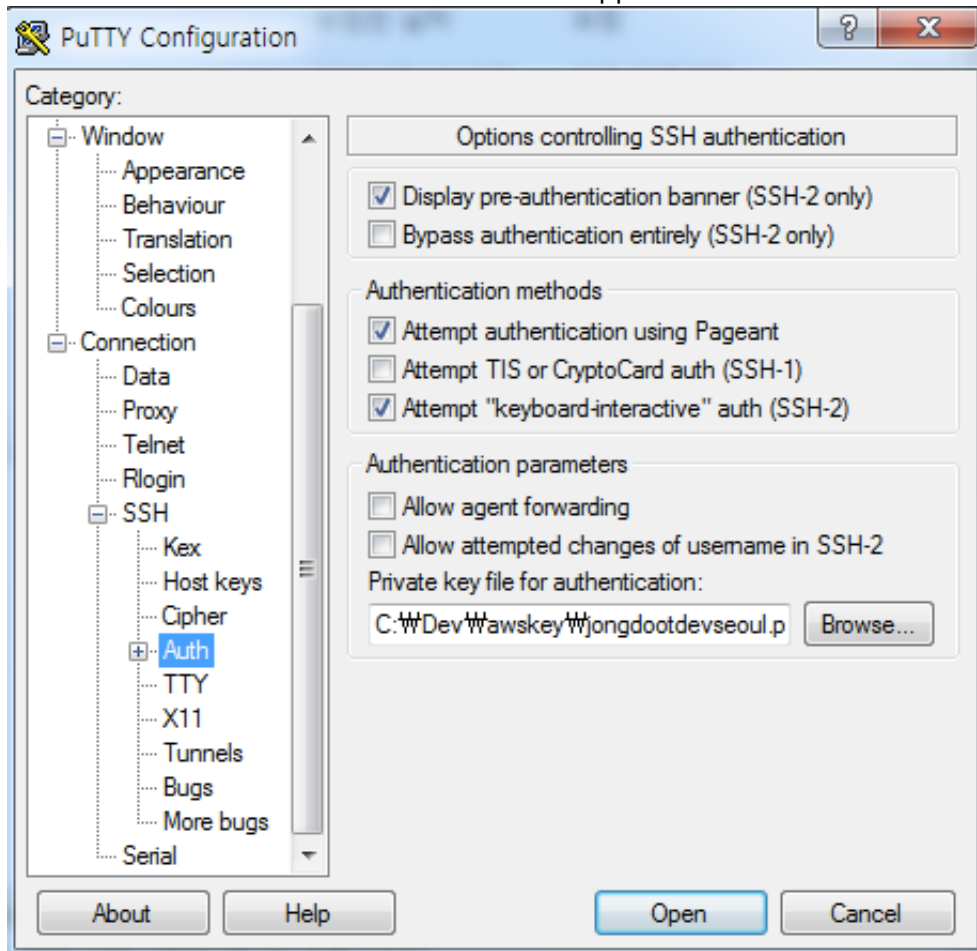
PUTTY.EXE 실행
기존 서버 정보 입력

ppk 파일 추가

Connection -> SSH -> Auth 에서 browse 선택후 .ppk파일 선택

모든 작업 완료 후 Open 선택 접속 완료 화면


```
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 14.04.3 LTS (GNU/Linux 3.13.0-74-generic x86_64)

 * Documentation:  https://help.ubuntu.com/

  System information as of Thu Jun  9 06:33:48 UTC 2016

  System load:  0.09                Processes:           101
  Usage of /:   10.0% of 7.74GB     Users logged in:     0
  Memory usage: 6%                  IP address for eth0: 172.31.13.128
  Swap usage:   0%

  Graph this data and manage this system at:
    https://landscape.canonical.com/

  Get cloud support with Ubuntu Advantage Cloud Guest:
    http://www.ubuntu.com/business/services/cloud

0 packages can be updated.
0 updates are security updates.


Last login: Thu Jun  9 06:33:49 2016 from 218.55.77.114
ubuntu@ip-172-31-13-128:~$
```

nodejs 설치

```
curl -sL https://deb.nodesource.com/setup_4.x | sudo -E bash -
sudo apt-get install -y nodejs
```

nodejs 업데이트

```
curl -sL https://deb.nodesource.com/setup_4.x | sudo -E bash -
sudo apt-get install -y nodejs
```
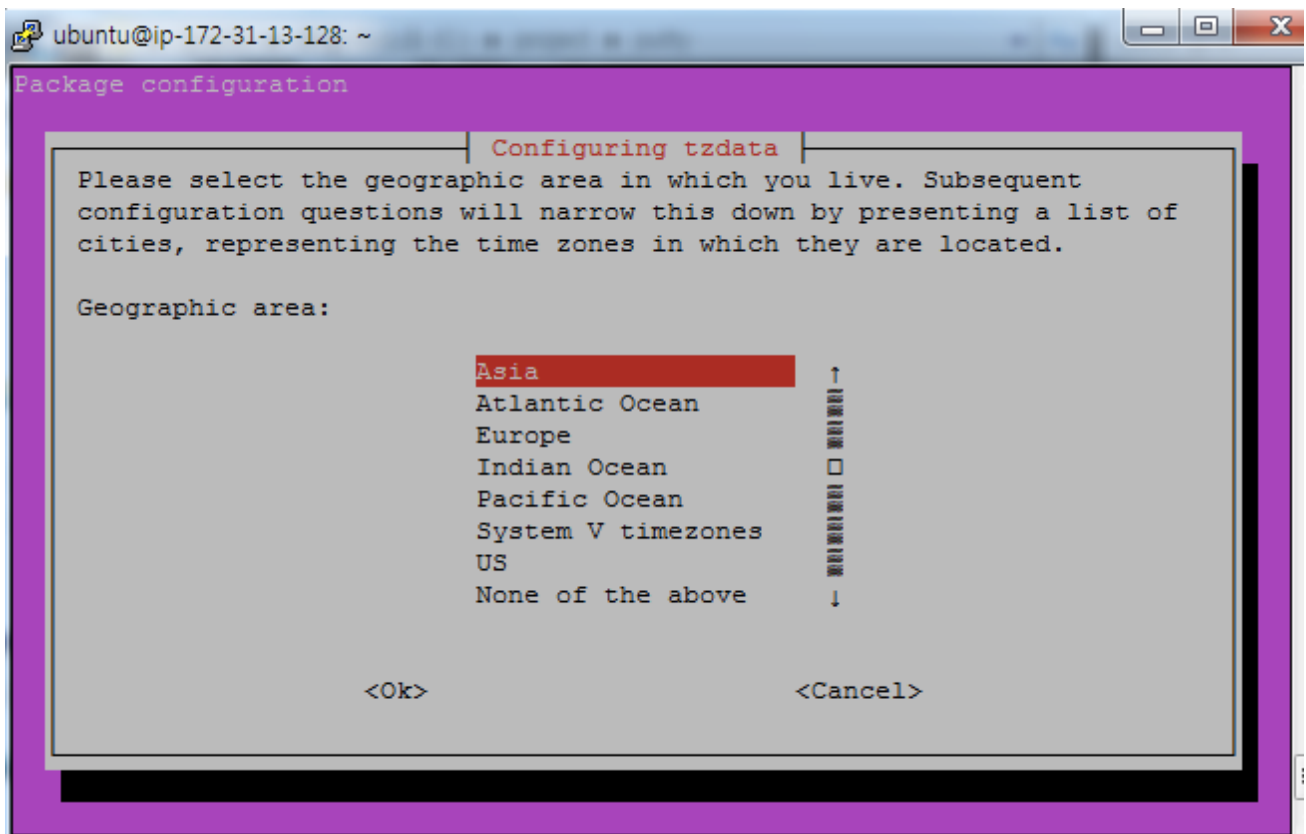
버전 확인 – v4.4.5 정상

```
ubuntu@ip-172-31-13-128:~$ nodejs --version
v4.4.5
ubuntu@ip-172-31-13-128:~$
```
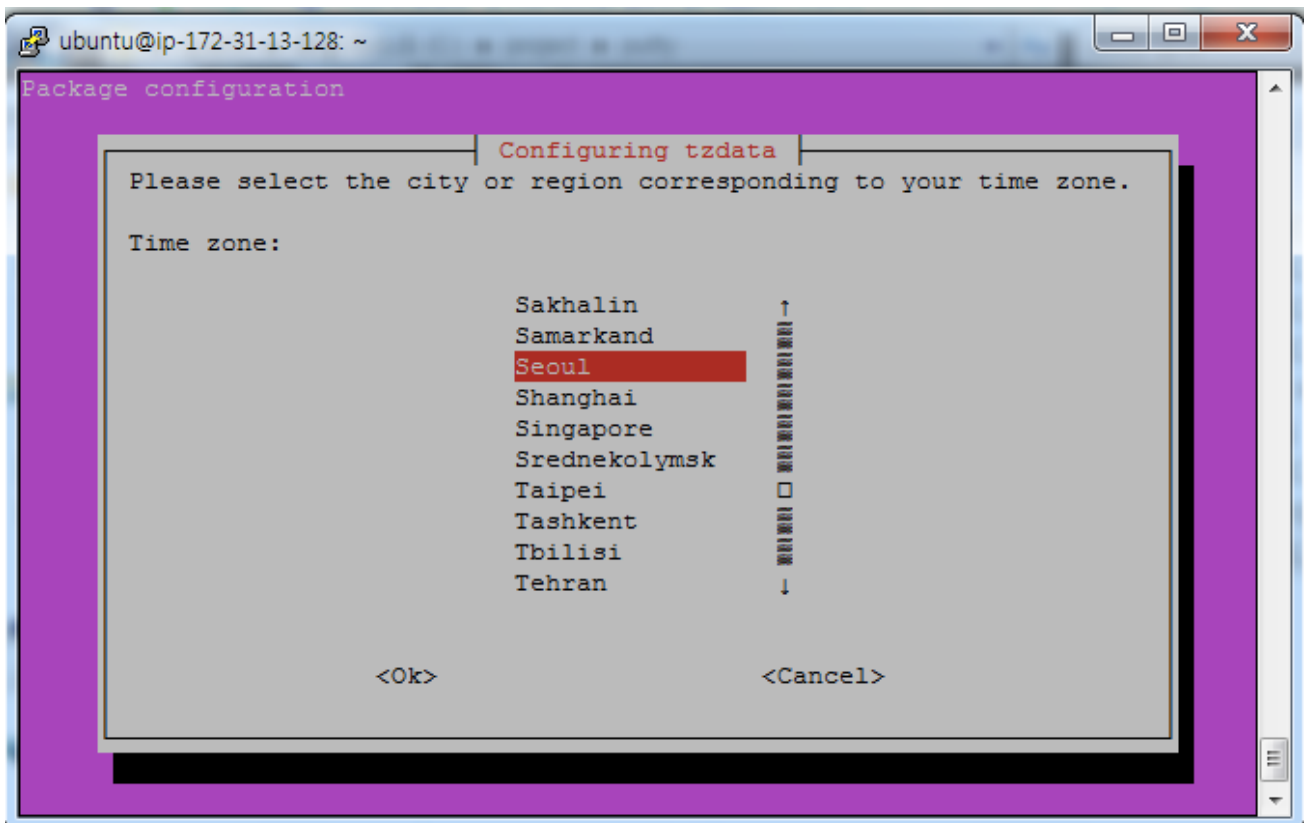
ubuntu 대한민국 시간 설정
아래내용중 sudo 부터 입력ㅇㅁㅅㄷ

```
ubuntu@ip-172-31-13-128:~$ sudo dpkg-reconfigure tzdata
```

Asia 선택

Seoul 선택

시간 확인 방법

```
ubuntu@ip-172-31-13-128:~$ date
Thu Jun  9 16:04:18 KST 2016
```

MongoDB 설치

sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927

```
ubuntu@ip-172-31-13-128:~$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927
```

echo "deb http://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.2 multivers
e" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.2.list

```
ubuntu@ip-172-31-13-128:~$ echo "deb http://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.2 multiverse" |
sudo tee /etc/apt/sources.list.d/mongodb-org-3.2.list
```

sudo apt-get update

```
ubuntu@ip-172-31-13-128:~$ sudo apt-get update
```

sudo apt-get install -y mongodb-org

```
ubuntu@ip-172-31-13-128:~$ sudo apt-get install -y mongodb-org
```

버전 확인 - 3.2.7

```
ubuntu@ip-172-31-13-128:~$ mongo -version
MongoDB shell version: 3.2.7
```

redis 설치
sudo apt-get install reds-server

```
ubuntu@ip-172-31-13-128:~$ sudo apt-get install redis-server
```

sudo start redis-server : 시작
sudo restart redis-server : 재시작
sudo stop redis-server : 종료
redis-cli : 실행중일경우 ip:port> 로 들어가 가고 exit로 빠져나

```
ubuntu@ip-172-31-13-128:~$ redis-cli
127.0.0.1:6379> eixt
```

nodejs 실행을 위한 express, express-generator 설치
sudo npm install -g express-generator

```
ubuntu@ip-172-31-13-128:~$ sudo npm install -g express-generator
```
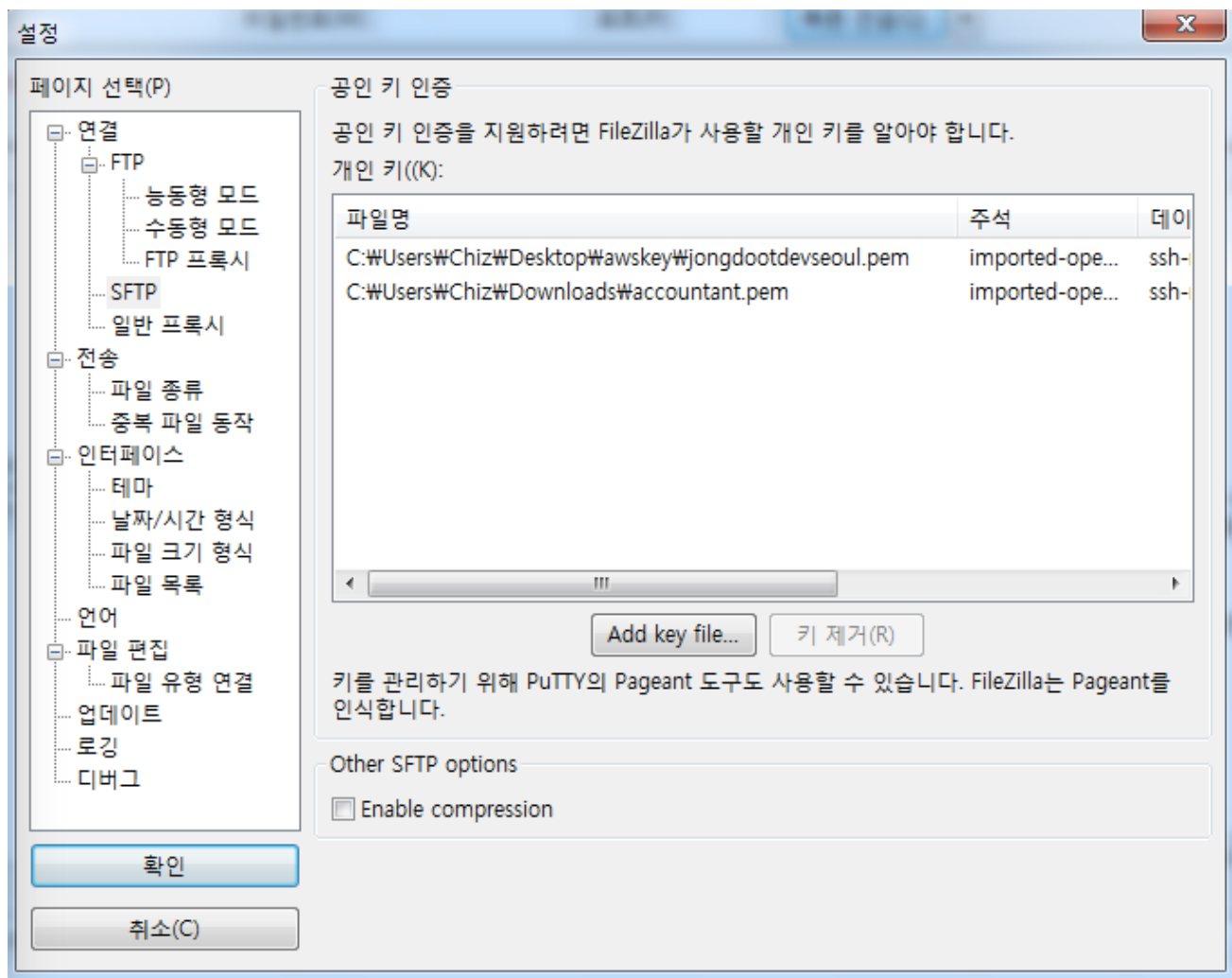
backgroud 실행을 위한 forever 실행
sudo npm install forever -g

```
ubuntu@ip-172-31-13-128:~$ sudo npm install forever -g
```
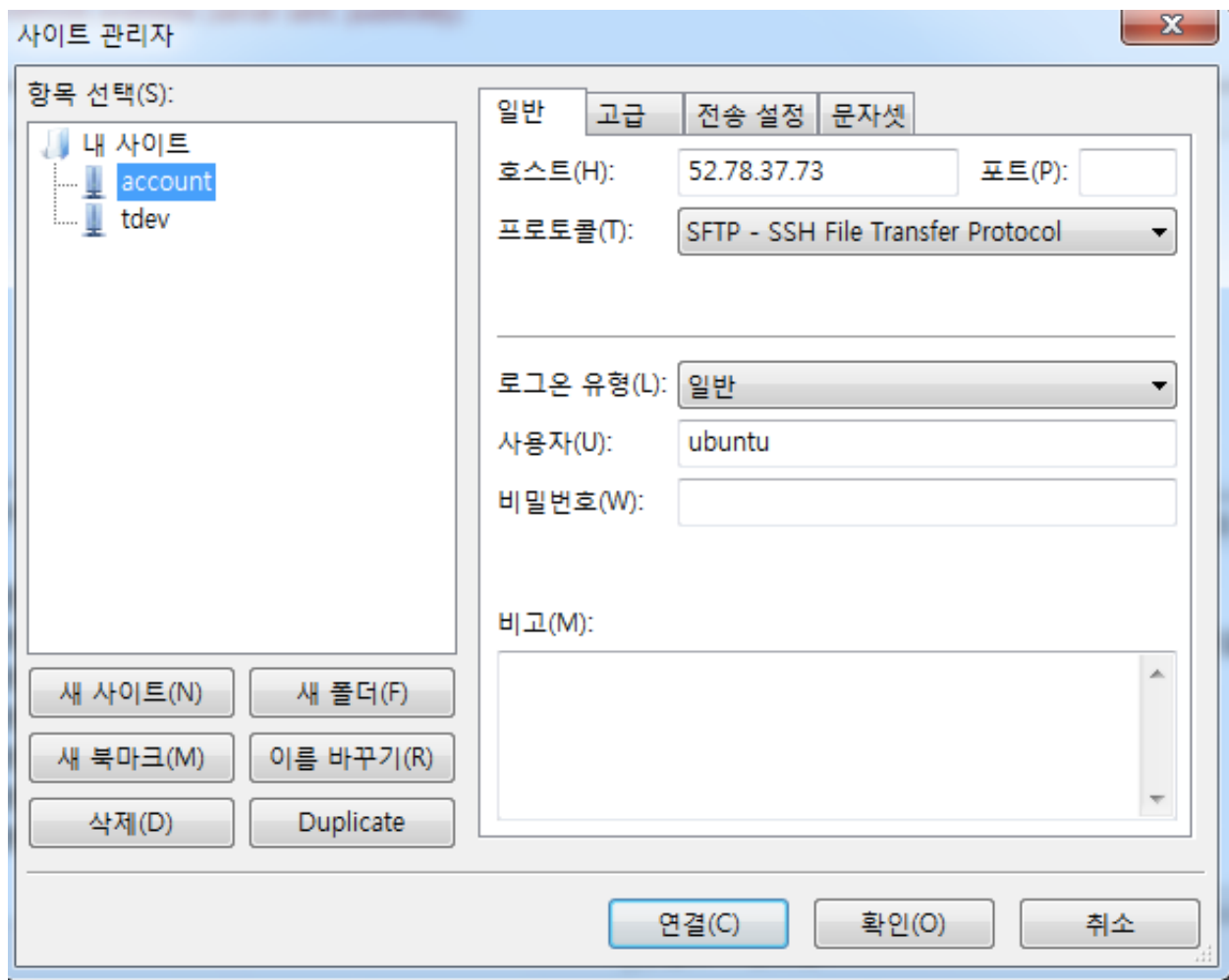
소스파일 업로드를 위한 FileZilla 사용법
메뉴에서 편집->설정 실행
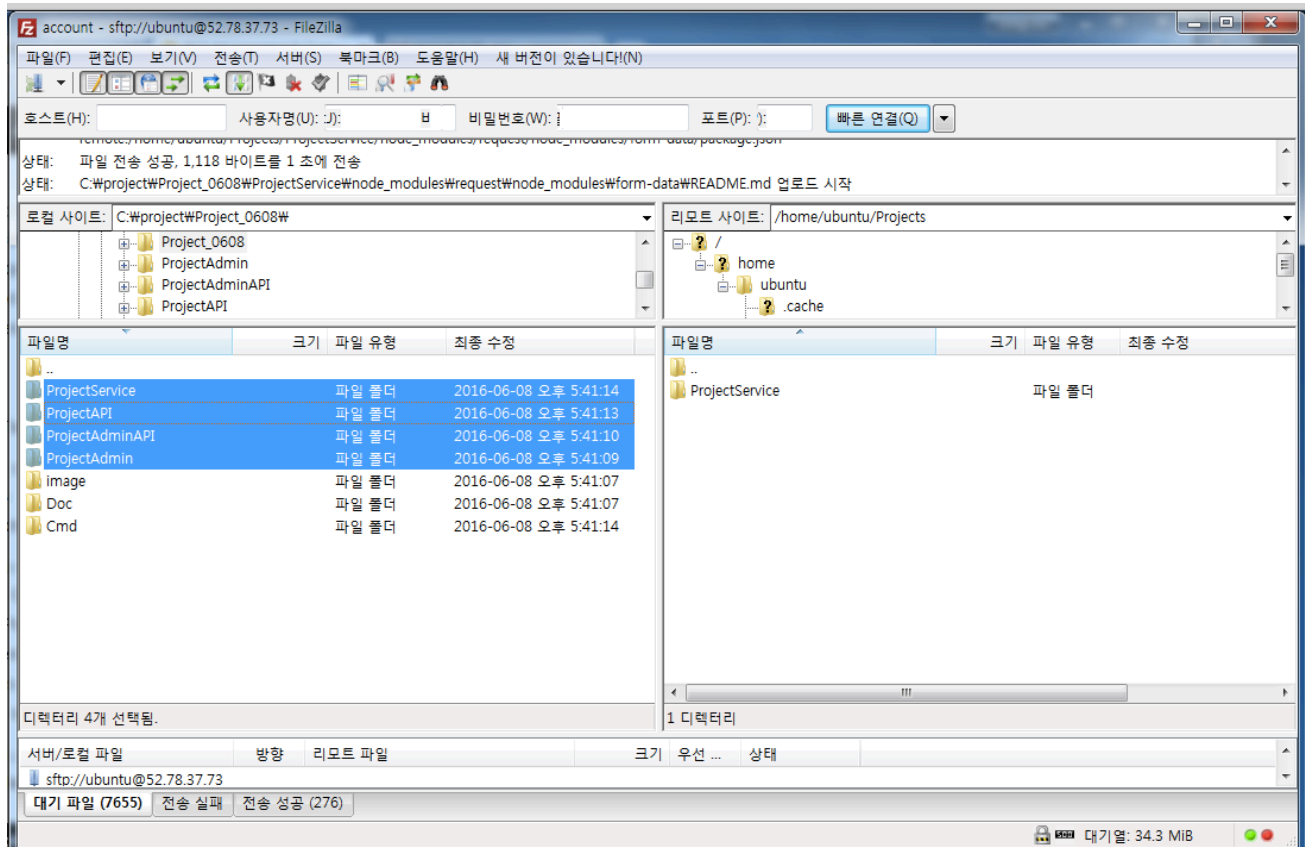연결->SFTP 에서 Add key file 로 accountant.pem 파일 추가

파일 –> 사이트 관리자 실행
새로 만들기 선택 –> 일반에서 아래 화면처럼 설정 후 연결

분할 화면 에서 우측화면이 아래처럼 나오면

소스파일은 드레그앤 드롭으로 업로드 가능

app 실행하기
관리자 페이지 실행
ProjectAdmin 폴더로 이동해서 forever start app.js

```
ubuntu@ip-172-31-13-128:~/Projects/ProjectAdmin$ forever start app.js
```

ProjectAdminAPI 폴더로 이동해서 forever start app.js

```
ubuntu@ip-172-31-13-128:~/Projects/ProjectAdminAPI$ forever start app.js
```

android api 실행
ProjectAPI 폴더로 이동해서 forever start app.js

```
ubuntu@ip-172-31-13-128:~/Projects/ProjectAPI$ forever start app.js
```

실행중인 app 리스트 보기 : forever list

```
ubuntu@ip-172-31-13-128:~/Projects$ forever list
info:    Forever processes running
data:        uid  command          script forever pid  id logfile                        uptime
data:    [0] gMIP /usr/bin/nodejs app.js 3734    3739    /home/ubuntu/.forever/gMIP.log 0:0:12:3.578
data:    [1] gKus /usr/bin/nodejs app.js 3764    3769    /home/ubuntu/.forever/gKus.log 0:0:11:21.323
data:    [2] ymql /usr/bin/nodejs app.js 3921    3926    /home/ubuntu/.forever/ymql.log 0:0:6:18.172
ubuntu@ip-172-31-13-128:~/Projects$
```

실행중인 app 종료하기
forever stop id : ex)forever stop 3926

```
ubuntu@ip-172-31-13-128:~/Projects$ forever stop 3926
```

*소스를 새로 업데이트 할때마다 서버 종료 후 재실행