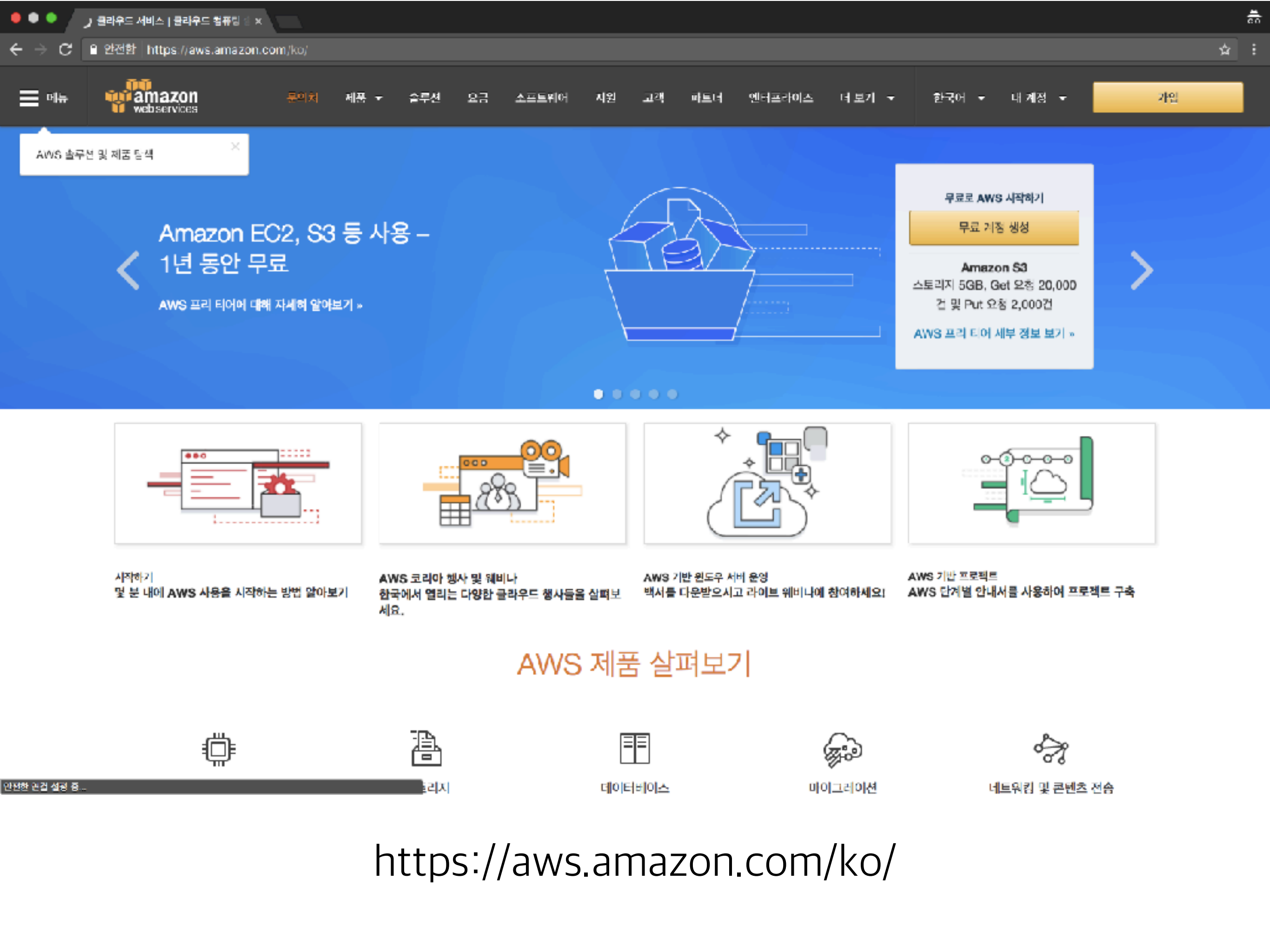


Node.js로 간단한 서버 만들기 with AWS



https://aws.amazon.com/ko/



로그인 또는 AWS 계정 만들기

이메일 주소(모바일 계정의 경우 전화 번호)는 무엇입니까?

이메일 또는 휴대폰 번호:

- ☒ 새 사용자입니다.
- ☐ 기존 사용자이며
비밀번호는 다음과 같습니다.

보안 서버를 사용하여 로그인

[비밀번호가 실각하지 않는 경우](#)



AWS 계정에는 12개월 동안
프리 티어가 제공됩니다

Amazon EC2, Amazon S3 및
Amazon RDS 사용 포함

전체 제한 사항은 [aws.amazon.com/free](#) 참조

AWS 계정의 보안을 강화해 주는 [AWS Identity and Access Management](#) 및 [AWS 멀티 팩터 인증](#) 기능에 대해 자세히 알아보십시오. [AWS 프리 티어](#) 제한 사항 전체 내용 보기

Amazon.com 로그인 정보

Amazon Web Services는 귀하의 Amazon.com 계정의 정보를 사용하여 자격 증명을 확인하고 Amazon Web Services에 대한 액세스를 허용합니다. 이 사이트의 사용은 이 라 링크된 이용 약관과 개인 정보 보호 정책을 따릅니다. 허당 제품 및 서비스를 AWS 부가 가치 대리점에서 구매한 경우를 제외하고 Amazon Web Services 제품 및 서비스의 사용은 아래 링크된 AWS 고객 계약에 따릅니다. AWS 고객 계약은 2017년 3월 31일에 업데이트되었습니다. 해당 업데이트에 대한 자세한 내용은 다음을 참조하십시오. [최근 변경 사항](#).

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An [amazon.com](#) company

새 사용자로 계정 생성



로그인 자격 증명

AWS 및 Amazon.com에서 사용할 수 있는 로그인 자격 증명을 만들려면 아래 양식을 사용하십시오.

내 이름: 이재동

내 이메일 주소: gy02023@naver.com

다시 입력: gy02023@naver.com

참고: 계정에 관련하여 사용자에게 연락할 때 사용할 이메일 주소입니다.

새 비밀번호 입력:

다시 입력:

계정 생성

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한국어 로그인

Amazon Web Services 등록

연락처 정보

☐ 회사 계정 ☒ 개인 계정

* 필수 필드

전체 이름*

국가*

주소*

구/군/시*

시/도*

우편 번호*

전화 번호*

보안 확인 ?



위에 보이는 문자를 입력하십시오.

개인 계정으로 생성 (카드생성 과정중 1달러쯤 빠졌다가 들어옴)

로그인

서울시 방이동 103-7 우편번호

← → ↺ 안전함 <https://aws.amazon.com/ko/registration-confirmation/> ☆

메뉴

amazon web services

문의처

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솔루션

요금

소프트웨어

지원

고객

파트너

엔터프라이즈

더 보기

한국어

내 계정

가입


Amazon Web Services 사용을 환영합니다.

Amazon Web Services 계정을 만들어 주셔서 감사합니다. 지금 계정을 활성화하고 있으며 몇 분 이내에 완료됩니다. 활성화가 완료되면 이메일이 전송됩니다.


콘솔에 로그인

컴퓨터 팀 문의


10분 자습서로 AWS 시작하기




Linux 가상 머신 시작



파일을 클라우드에 저장



WordPress 웹사이트 시작



웹 애플리케이션 시작

[모든 자습서 보기 >>](#)

AWS 코리아 Twitter 계정

AWS 코리아 Facebook 페이지

서 소식 RSS

Twitch

AWS 코리아 블로그

새로운 소식? RSS

업데이트 구독

무료 계정 생성

<https://aws.amazon.com/ko/getting-started/tutorials/launch-a-wordpress-website/>

콘솔에 로그인으로 로그인

← → ↻ 안전환 <https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2#> ☆

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Services ▾ **Resource Groups** ▾

AWS services


Find a service by name or feature (for example, EC2, S3 or VM, storage).


Recently visited services


All services


Build a solution


Get started with simple wizards and automated workflows.


**Launch a virtual machine**
With EC2
~1 minute

**Build a web app**
With Elastic Beanstalk
~6 minutes

**Host a static website**
With S3, CloudFront, Route 53
~6 minutes

**Connect an IoT device**
With AWS IoT
~5 minutes

**Start a development project**
With CodeStar
~5 minutes


**Register a domain**
With Route 53
~3 minutes


[See more](#)


Learn to build

Learn to deploy your solutions through step-by-step guides, labs, and videos.


[See all](#)


Websites


DevOps


Backup and recovery


Helpful tips

**Manage your costs**
Get real-time billing alerts based on your cost and usage budgets. [Start now](#)

**Create an organization**
Use AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#)

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New Product Announcements

View the latest announcements from the AWS Summit - San Francisco. [Learn more.](#)

Migrate from Oracle to Amazon Aurora

Learn how to migrate from Oracle to Amazon Aurora with minimal downtime. [View project.](#)

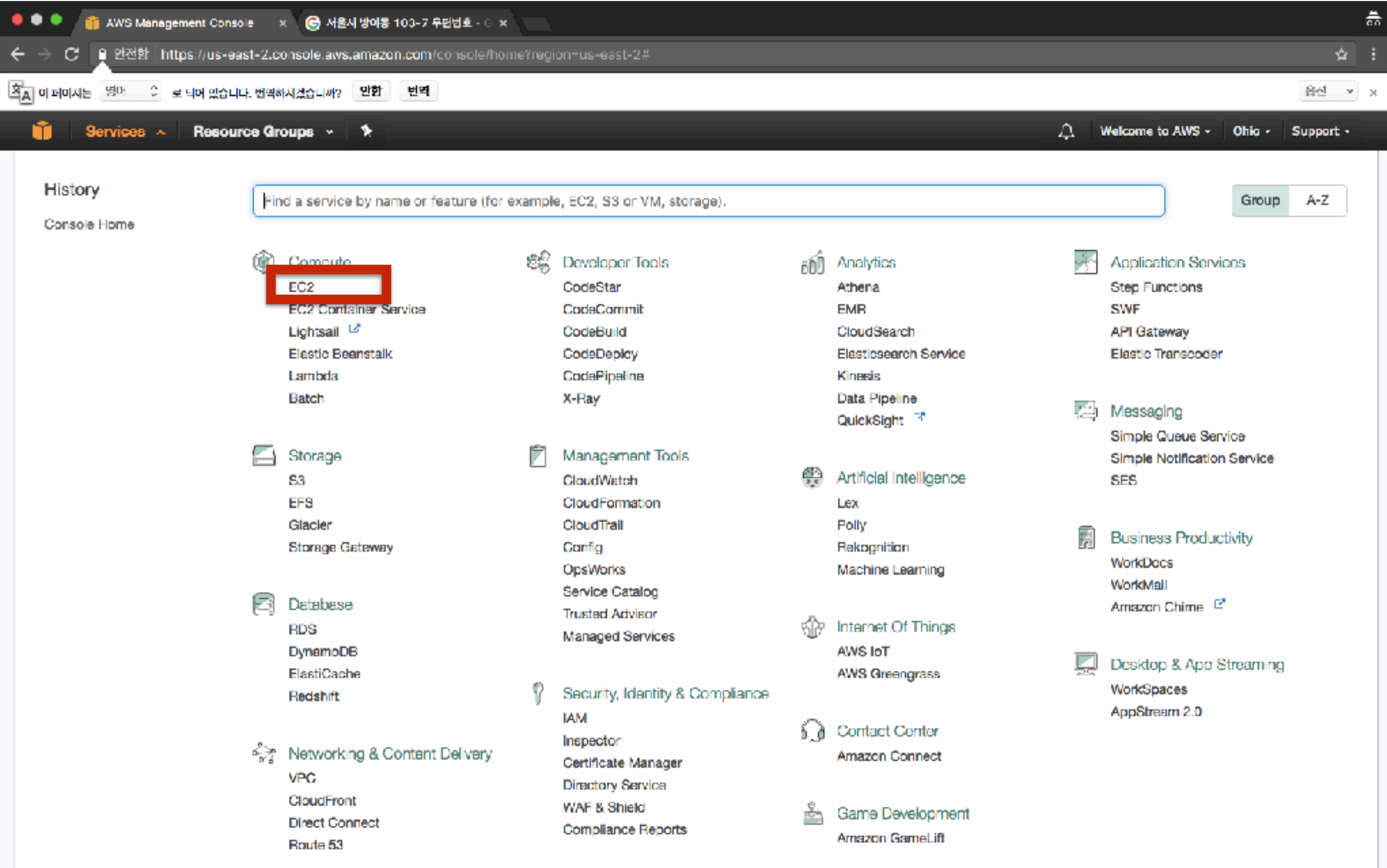
Introducing Amazon Kinesis Analytics

Easily process real-time streaming data with Amazon Kinesis Analytics. [Learn more.](#)

AWS Marketplace

Discover, procure, and deploy reusable software products that run

Services의 EC2 선택



Services의 EC2 선택

EC2 Management Console | 서울시 방아통 103-7 우편번호 - G x

안전한 | https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2

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- Placement Groups
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- Network Interfaces

LOAD BALANCING

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AUTO SCALING

Resources

You are using the following Amazon EC2 resources in the US East (Ohio) region:

0 Running Instances	0 Elastic IPs
0 Dedicated Hosts	0 Snapshots
1 Volumes	0 Load Balancers
1 Key Pairs	2 Security Groups
0 Placement Groups	

Just need a simple virtual private server? Get everything you need to jumpstart your project - compute, storage, and networking - for a low, predictable price. Try [Amazon Lightsail](#) for free.

Create Instance

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

[Launch Instance](#)

Note: Your instances will launch in the US East (Ohio) region

Service Health

Service Status:

US East (Ohio):
This service is operating normally

Availability Zone Status:

us-east-2a:
Availability zone is operating normally

us-east-2b:

Scheduled Events

US East (Ohio):
No events

Welcome to AWS | Ohio | Support

- US East (N. Virginia)
- US East (Ohio)**
- US West (N. California)
- US West (Oregon)
- Canada (Central)
- EU (Ireland)
- EU (Frankfurt)
- EU (London)
- Asia Pacific (Singapore)
- Asia Pacific (Sydney)
- Asia Pacific (Seoul)
- Asia Pacific (Tokyo)
- Asia Pacific (Mumbai)
- South America (São Paulo)

Find free software trial products in the AWS Marketplace from the [EC2 Launch Wizard](#). Or try these popular AMIs:

[Barracuda NextGen Firewall F-Series - PAYG](#)

Provided by Barracuda Networks, Inc.

Rating ★★★★★

Starting from \$0.60/hr or from \$4,599/yr (12% savings) for software + AWS usage fees

[View all Network Infrastructure](#)

[VM-Series Next-Generation Firewall Bundle 2](#)

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지역 선택 - Asia Pacific(Seoul)

EC2 Management Console | 서울시 방아통 103-7 두립번호 - G x

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0 Placement Groups	

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Service Status:

US East (Ohio):
No events

US East (Ohio):
This service is operating normally

Availability Zone Status:

us-east-2a:
Availability zone is operating normally

us-east-2b:

Scheduled Events

Account Attributes

Supported Platforms

VPC

Default VPC

vpc-d35f3dba

Resource ID length management

Additional Information

- Getting Started Guide
- Documentation
- All EC2 Resources
- Forums
- Pricing
- Contact Us

AWS Marketplace

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Launch Instance 선택

EC2 Management Console | 서울시 방아봉 103-7 우편번호 - G x

안전한 | <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard>

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1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

[Cancel and Exit](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start





My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only ⓘ

1 to 30 of 30 AMIs

 Amazon Linux Free tier eligible	Amazon Linux AMI 2017.03.0 (HVM), SSD Volume Type - ami-4191b524 The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages. Root device type: ebs Virtualization type: hvm	Select 64-bit
 Red Hat Free tier eligible	Red Hat Enterprise Linux 7.3 (HVM), SSD Volume Type - ami-0932606c Red Hat Enterprise Linux version 7.3 (HVM), EBS General Purpose (SSD) Volume Type Root device type: ebs Virtualization type: hvm	Select 64-bit
 SUSE Linux Free tier eligible	SUSE Linux Enterprise Server 12 SP2 (HVM), SSD Volume Type - ami-61a7fd04 SUSE Linux Enterprise Server 12 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled. Root device type: ebs Virtualization type: hvm	Select 64-bit
 Ubuntu Free tier eligible	Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-618fab04 Ubuntu Server 16.04 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

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Amazon Linux 선택

EC2 Management Console

서울시 방아통 103-7 우편번호

안전한 https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

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안함

번역

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1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by:

All instance types

Current generation

[Show/Hide Columns](#)

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

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes

[Cancel](#)[Previous](#)[Review and Launch](#)[Next: Configure Instance Details](#)

Feedback

English

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t2.micro로 인스턴스 생성

EC2 Management Console | 서울시 방아통 103-7 우편번호 - G x

← → ↻ | 안전함 | https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard: | ☆ | ⋮

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1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 7: Review Instance Launch

Free tier eligible The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root Device Type: ebs | Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs
t2.micro	Variable	1

Security Groups

Security group name	Description
launch-wizard-1	launch-wizard-1 created

Type ⓘ

Instance Details

Storage

Network Performance

Low to Moderate

Edit instance type

Edit security groups

Edit instance details

Edit storage

Cancel | Previous | Launch

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

nodeServerKey

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

nodeServerKey.pem

모두 표시 x

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key pair 새로 생성하여 사용 (create a new key pair)

EC2 Management Console | 서울시 방아통 103-7 우편번호

안전한 | <https://ap-northeast-2.console.aws.amazon.com/ec2/v2/home?region=ap-northeast-2#Instances:sort=instanceId>

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Launch Instance | Connect | Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
	i-038af8286c9f96a3a	t2.micro	ap-northeast-2a	running	Initializing	None	ec2-52-78-159-87.ap-no...	52.78.159.87

Instance: i-038af8286c9f96a3a | Public DNS: ec2-52-78-159-87.ap-northeast-2.compute.amazonaws.com

Description | Status Checks | Monitoring | Tags

Instance ID	i-038af8286c9f96a3a	Public DNS (IPv4)	ec2-52-78-159-87.ap-northeast-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	52.78.159.87
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-9-245.ap-northeast-2.compute.internal

Feedback | English

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Public IP로 접속

mac은 기본 터미널 사용
윈도우는 putty 사용

```
→ Server chmod 400 nodeServerKey.pem
→ Server ssh -i nodeServerKey.pem ec2-user@52.78.159.87

  _I_ _I_ )
 _I ( / Amazon Linux AMI
  _I\ _I_ _I_

https://aws.amazon.com/amazon-linux-ami/2017.03-release-notes/
8 package(s) needed for security, out of 12 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-9-245 ~]$
[ec2-user@ip-172-31-9-245 ~]$
```

ssh를 이용해서 접속 (mac의 경우 nodeServerKey.pem에 권한을 줘야함)
ssh -i nodeServerKey.pem ec2-user@52.78.159.87

로그인 관련 AWS 레퍼런스

http://docs.aws.amazon.com/ko_kr/AWSEC2/latest/UserGuide/AccessingInstancesLinux.html

리눅스 명령어 모음 블로그

http://www.emh.co.kr/content.pl?linux_basic_commands

Nodejs 설치

Run as root on RHEL, CentOS or Fedora, for Node.js v6 LTS:

```
curl --silent --location https://rpm.nodesource.com/setup_6.x | bash -
```

Then install, as root:

```
yum -y install nodejs
```

```
curl --silent --location https://rpm.nodesource.com/setup_6.x | bash -
```

```
yum -y install nodejs
```

npm init

Package.json

```
{
  "name": "study-prepare",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}
```

"package.json" 11L, 209C

1,1 모두

```
npm install -save express  
npm install -save body-parser
```

package.json

```
1. root@ip-172-31-9-245:/home/ec2-user/study/study-prepare (ssh)
{
  "name": "study-prepare",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC",
  "dependencies": {
    "body-parser": "^1.17.2",
    "express": "^4.15.3"
  }
}

"package.json" 15L, 289C 1,1 모두
```

vim index.js

```
var http = require('http');
var express = require('express');
var bodyParser = require('body-parser');
var app = express();

app.set('port', process.env.PORT || 3000);

app.get('/', function(req, res) {
  console.log('test');
  res.end('test');
});

app.use(function(req, res, next) {
  res.status(404).send('Not Found...' + '(' + req.originalUrl + ')');
});

app.use(function(err, req, res) {
  res.status(err.status || 500);
  res.send('Error occured...' + '(' + req.originalUrl + ')');
});

app.listen(app.get('port'));
```



```
npm install -g forever
```

```
forever start index.js
```

```
app.use(bodyParser.json({ limit: '10mb' }));  
app.use(bodyParser.urlencoded({ extended: false }));
```

```
app.post('/', function(req, res){  
    console.log(req.body);  
    res.json(req.body);  
});
```

Mysql install

```
sudo yum install mysql-server
```

```
sudo /sbin/service mysqld start
```

```
sudo /usr/bin/mysql_secure_installation
```

```
npm install -save mysql
```

https://www.w3schools.com/nodejs/nodejs_mysql.asp