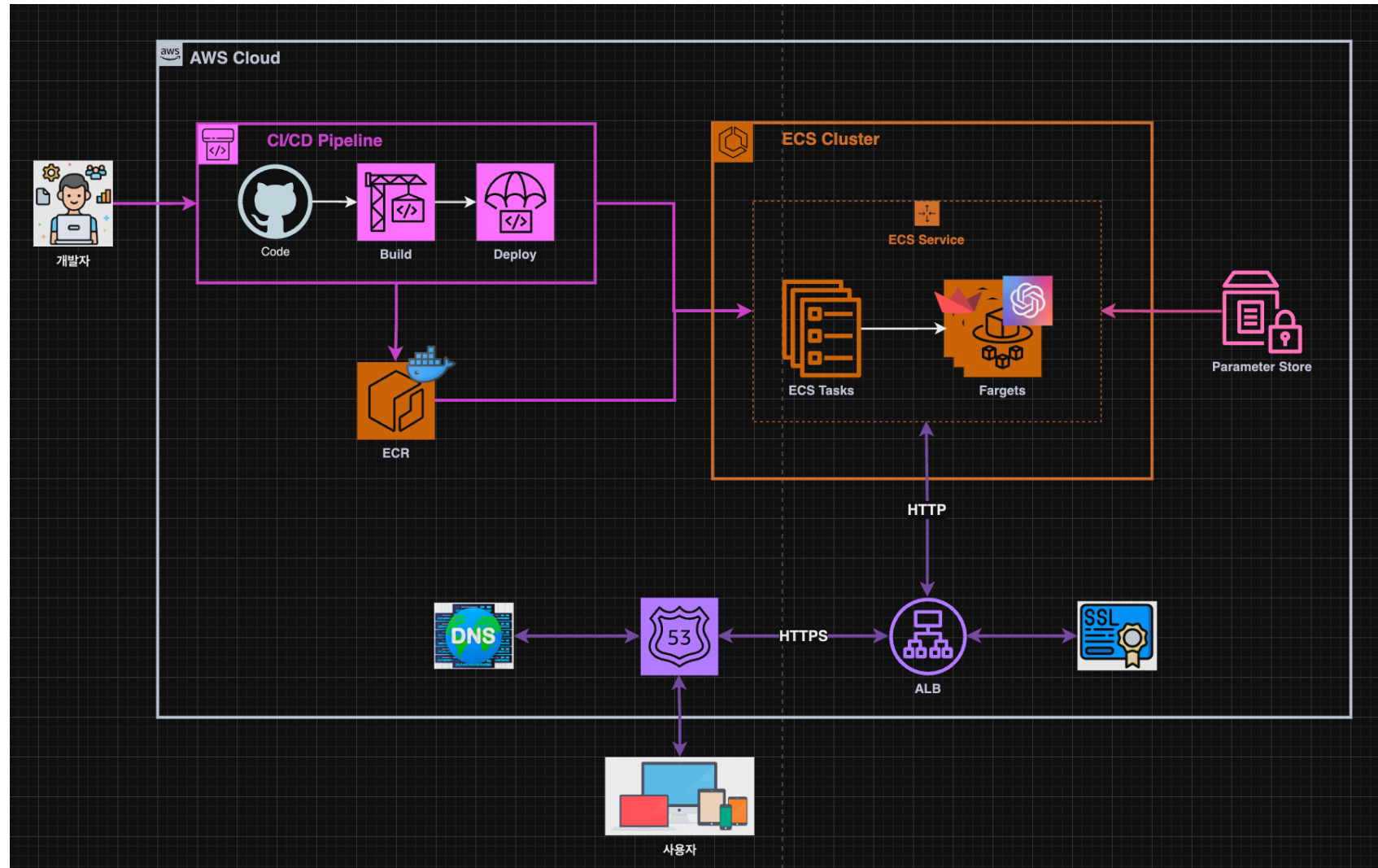
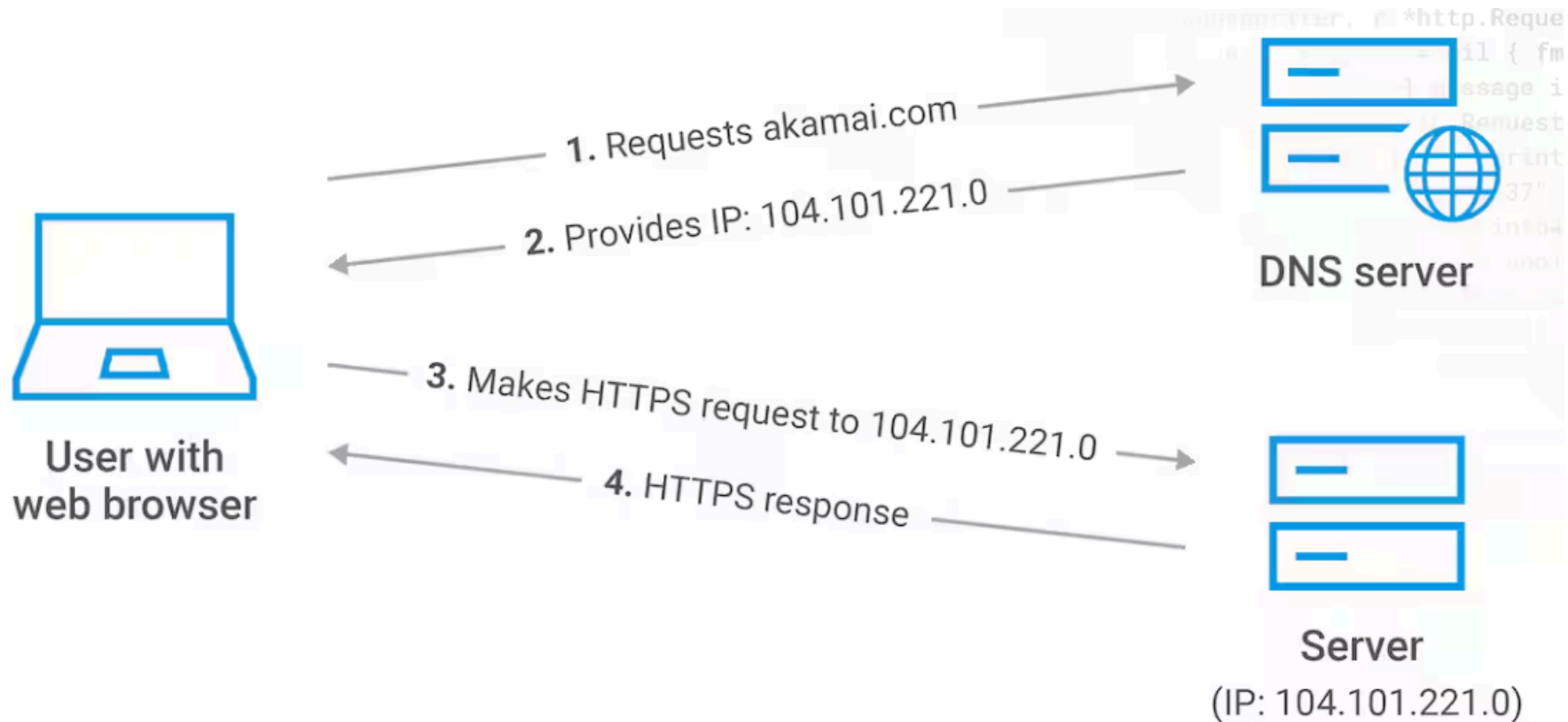


# Architecture



# Domain Name System

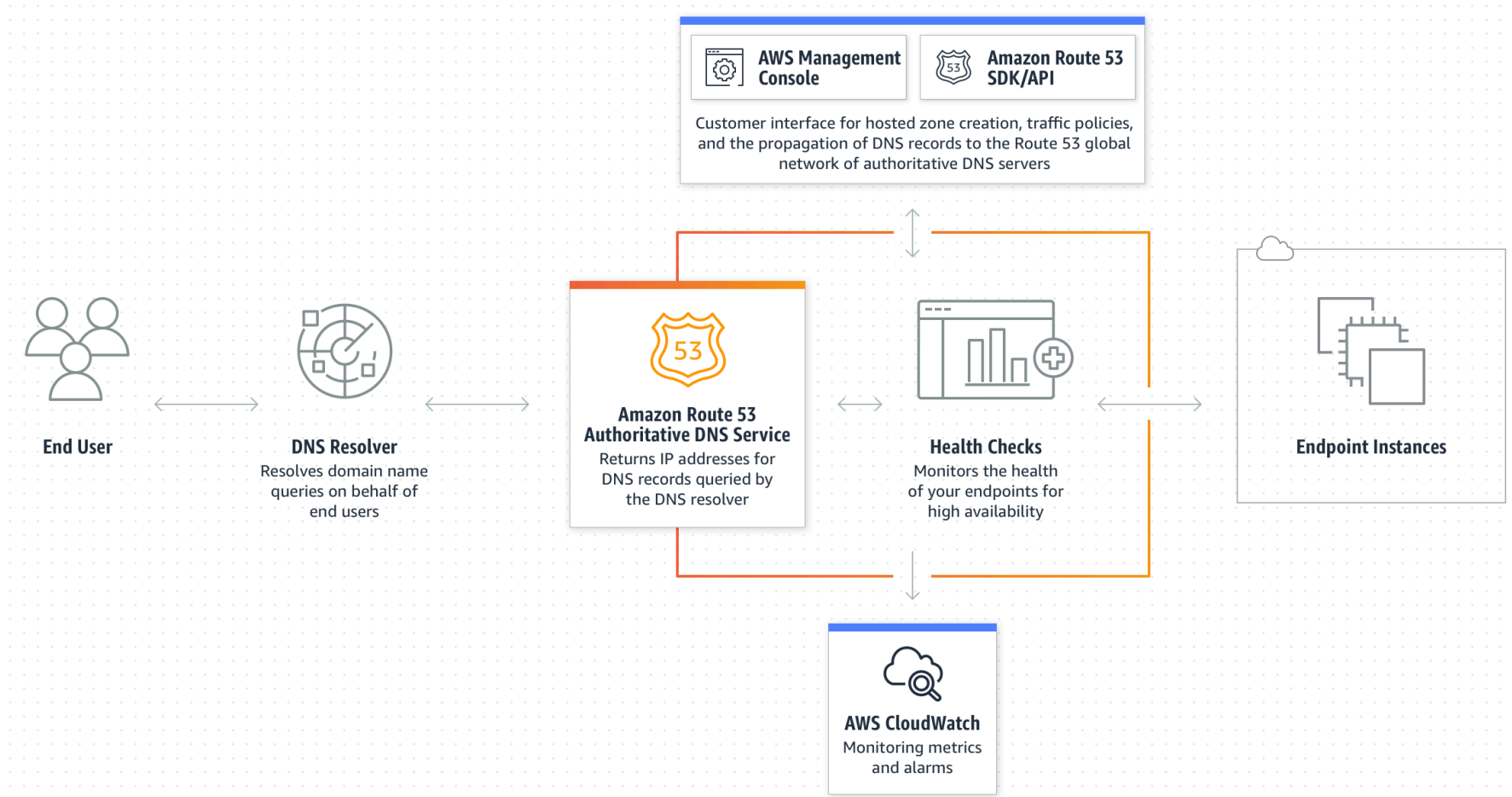
- DNS 또는 Domain Name System 은 사람이 읽을 수 있는 도메인 이름(예: www.amazon.com)을 머신이 읽을 수 있는 IP 주소(예: 192.0.2.44)로 변환합니다.



## Route 53

- Amazon Route 53는 가용성과 확장성이 뛰어난 도메인 이름 시스템(DNS) 웹 서비스입니다.
- Route 53는 사용자 요청을 AWS 또는 온프레미스에서 실행되는 인터넷 애플리케이션에 연결합니다.

- Route 53 요금



## DNS 도메인 생성

## 단계1: Route 53 접속

The screenshot displays the AWS Management Console interface. At the top, the AWS logo and 'Services' menu are visible. A search bar contains the text 'Route 53'. Below the search bar, the search results for 'Route 53' are shown. On the left side, there is a navigation pane with links to 'Route 53', 'Dashboard', 'Hosted zones', 'Health checks', 'Profiles', and 'IP-based routing'. The main content area shows the search results for 'Route 53'. A red arrow points from the 'Route 53' link in the search results to the 'Route 53' link in the navigation pane. The search results list includes 'Route 53' (Scalable DNS and Domain Name Registration) and 'Route 53 Resolver' (Resolve DNS queries in your Amazon VPC and on-premises network).

aws | Services | Search: Route 53

Route 53

Dashboard  
Hosted zones  
Health checks  
Profiles **New**  
▼ IP-based routing

Search results for 'Route 53'

Services

Route 53 ☆  
Scalable DNS and Domain Name Registration

Route 53 Resolver  
Resolve DNS queries in your Amazon VPC and on-premises network.

## 단계2: Register domains

Route 53

×

Dashboard

Hosted zones

Health checks

Profiles [New](#)

▶ IP-based routing

▶ Traffic flow

▼ Domains

Registered domains

Requests

[Route 53](#) > Registered domains

Registered domains [Info](#)

[Download billing report](#)

Transfer in ▼

Register domains

< 1 > ⚙

Domain name ▲	Expiration date ▼	Auto-renew	Transfer lock
No domains to display.			

### 단계3: Check Price > Check availability for a domain

#### Search for domain

Check availability for a domain

× Search

▼ **Standard pricing**  
Pricing for domain names varies by top-level domain (TLD), such as .com or .org.

< 1 2 3 4 5 6 7 ... 36 >

TLD	Price
.click	3.00 USD
.link	5.00 USD



## 단계4: Select a domain

### Search for domain

Check availability for a domain

× Search

► **Standard pricing**

Pricing for domain names varies by top-level domain (TLD), such as .com or .org.

### Search result

Domain	Price/year	Actions
good593.click <span>Exact match</span>	3.00 USD Renews at 3.00 USD	<a href="#">Select</a>

## 단계5: Proceed to checkout

### Register domains [Info](#)

Pricing for domain names varies by top-level domain (TLD). For more information, view [price with different TLDs](#).

#### Search for domain

Check availability for a domain

Q good593.click



Search

#### ► Standard pricing

Pricing for domain names varies by top-level domain (TLD), such as .com or .org.

#### Search result

Domain		Price/year	Actions
good593.click	Exact match	3.00 USD Renews at 3.00 USD	Selected

#### Selected domains (1/5)

Domain registration fee

**good593.click**

3.00 USD

Renews at 3.00 USD

Remove

Subtotal:

**3.00 USD**

The domain registration fee displayed is for 1 year. You can change duration on the next page.

Proceed to checkout

## 단계6: Domain pricing options

### Domain pricing options

Domain name


good593.click

Duration (price)


1 year (3.00 USD) ▼

Auto-renew

☐ Off



**Auto-renew is turned off for this domain and the registration will expire after the selected registration period.**

For more information, see [Renewing Registration for a Domain](#) .

Subtotal: **3.00 USD**

Applicable taxes will be calculated at checkout.

Cancel

Next

## 단계7: Registrant contact

### General information

Contact type

Person ▼

First name

[REDACTED]

Last name

Cho

Email

[REDACTED]ail.com

Phone number

Enter country code and phone number.

+

82

[REDACTED]

Phone number can only contain digits and no spaces or hyphens.

## 단계8: Next

**Admin contact**

☒ Same as the registrant contact

**Tech contact**

☒ Same as the registrant contact

**Billing contact**

☒ Same as the registrant contact

**Privacy protection**

☒ Turn on privacy protection for all contacts of good593.click  
When you turn on privacy protection, contact information is hidden from WHOIS queries.


Cancel

Previous

Next

## 단계9: Submit

### Terms and conditions

Amazon Route 53 enables you to register and transfer domain names by using your AWS account. Route 53 uses Amazon Registrar and other registrar associates to perform the registration and transfer services. The registrar for your domain will periodically contact the registrant contact that you specified to verify the contact details and to renew registration. For more information, see [Amazon Route 53 Domain Name Registration End User Agreement](#) .

☒ I have read and agree to the Amazon Route 53 Domain Name Registration End User Agreement. I also understand that domain operation charges are non-refundable, and I can't use AWS credits to pay for domain operation fees.

Cancel

Previous

Submit

# 단계10: 도메인 등록 상태 보기

Route 53

×

Dashboard

Hosted zones

Health checks

Profiles [New](#)

▼ IP-based routing

CIDR collections

▼ Traffic flow

Traffic policies

Policy records

▼ Domains

Registered domains

Requests

Route 53 > Requests

Starting April 24, any communications you will receive about your domains will come from **noreply@registrar.amazon** email address instead of **route53-dev-admin@amazon.com**.

Requests [Info](#)

Filter submitted

Filter status

Filter type

Filter by time range

Any Status

Any Type

<

1

>

⚙

	Operation ID	Domain name	Message	Status	Type	Submitted
●	a09c9e15-88c9-4d84-9b83-3f489284b63e	good593.click	-	<div>⋮ In progress</div>	Register domain	November 12, 2024, 11:04 (UTC:+09:00)

15

## 단계11: 도메인 등록 완료 확인

Route 53

×

Dashboard

Hosted zones

Health checks

Profiles [New](#)

▶ IP-based routing

▶ Traffic flow

▼ Domains

Registered domains

**Requests**

Route 53 > Requests


Requests [Info](#)

Actions ▼

Filter submitted

Filter status

Filter type

 Filter by time range

Any Status ▼

Any Type ▼

< 1 > ⚙️

	Operation ID	Domain name	Message	Status	Type	Submitted ▼
●	a09c9e15-88c9-4d84-9b83-3f489284b63e	good593.click	-	✔ Successful	Register domain	November 12, 2024, 11:04 (UTC:+09:00)



## 단계12: Hosted zones

Route 53

×

Dashboard

**Hosted zones**

Health checks

Profiles [New](#)

▼ IP-based routing

CIDR collections

[Route 53](#) > Hosted zones

Hosted zones (1)

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

< 1 >

⚙

Hosted zone name	Type	Created by	Record count	Description	Hosted zone ID
<input type="radio"/> <a href="#">good593.click</a>	Public	Route 53	2	HostedZone created ...	Z094943426YZA...

# 단계13: NameServer 확인

Records (2)

DNSSEC signing

Hosted zone tags (0)

Records (2) Info

↺

Delete record

Import zone file

Create record

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

🔍 Filter records by property or value

Type ▼

Routing policy ▼

Alias ▼

< 1 > ⚙

<input type="checkbox"/>	Record ... ▼	Type ▼	Routin... ▼	Differ... ▼	Alias ▼	Value/Route traffic to ▼	TTL (s... ▼	Health ... ▼	Evalua... ▼	Record ID ▼
<input type="checkbox"/>	good593....	NS	Simple	-	No	ns-1671.awsdns-16.co.uk. ns-1337.awsdns-39.org. ns-335.awsdns-41.com. ns-554.awsdns-05.net.	172800	-	-	-
<input type="checkbox"/>	good593....	SOA	Simple	-	No	ns-1671.awsdns-16.co.uk. awsdn...	900	-	-	-

## NS

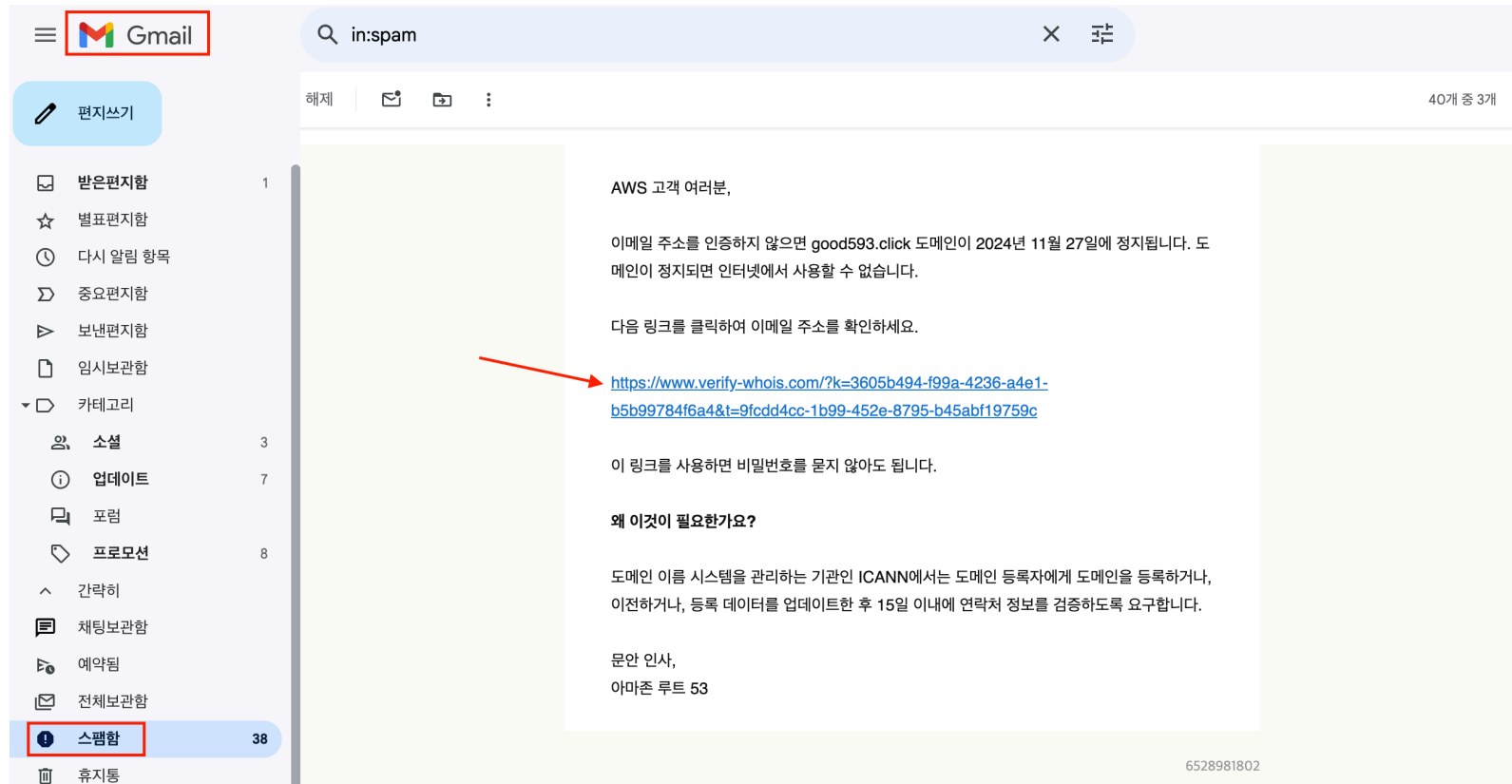
- 네임서버 레코드로 도메인에 대한 네임서버의 권한을 가지고 있는지 알려주는 레코드
- 예를 들어 naver.com의 NS레코드는 e-ns.naver.com, ns1.naver.com, ns2.naver.com 이다.

## SOA

- 도메인의 정보를 가지고 있는 레코드.
- naver의 경우 ns1.naver.com webmaster.naver.com 2021012809 21600 1800 1209600 180 이렇게 보여주고 있는데,
- 각각 마스터 네임서버, 존 관리자 연락처, 존 데이터 동기화 시간, 갱신주기, 시도, 만료 등 정보를 나타내고 있다.

## 단계14: 이메일 확인 및 링크 클릭

- 입력한 이메일 주소록 확인 메일이 전달 됨



**(옵션) 기존 DNS 적용**

## 단계1: Create hosted zone

Route 53

×

Dashboard

Hosted zones

Health checks

Profiles New

▼ IP-based routing

CIDR collections

▼ Traffic flow

Traffic policies

Policy records

▼ Domains

Route 53 > Hosted zones

Hosted zones (0)

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

< 1 > ⚙

Hosted zone name	Type	Created by	Record count	Description	Hosted zone ID
<div>No hosted zones</div> <div>There are no hosted zones created for this account.</div> <div>Create hosted zone</div>					

↻

View details

Edit

Delete

Create hosted zone

## 단계2: Domzin name > 기존 DNS 작성

### Domain name [Info](#)

This is the name of the domain that you want to route traffic for.

good593.click

Valid characters: a-z, 0-9, ! " # \$ % & ' ( ) \* + , - / : ; < = > ? @ [ \ ] ^ \_ ` { | } . ~

### Description - optional [Info](#)

This value lets you distinguish hosted zones that have the same name.

*The hosted zone is used for...*

The description can have up to 256 characters. 0/256

### Type [Info](#)

The type indicates whether you want to route traffic on the internet or in an Amazon VPC.

☒ **Public hosted zone**

A public hosted zone determines how traffic is routed on the internet.

☐ **Private hosted zone**

A private hosted zone determines how traffic is routed within an Amazon VPC.

## Tags [Info](#)

Apply tags to hosted zones to help organize and identify them.

No tags associated with the resource.

**Add tag**

You can add up to 50 more tags.

Cancel

**Create hosted zone**



## 단계3: NS 의 Value/Route traffic to 복사

- Route 53
  - Dashboard
  - Hosted zones
  - Health checks
  - Profiles [New](#)
- ▼ IP-based routing
  - CIDR collections
- ▼ Traffic flow
  - Traffic policies
  - Policy records
- ▼ Domains
  - Registered domains
  - Requests
- ▼ Resolver
  - VPCs
  - Inbound endpoints

Public good593.click [Info](#)

Delete zone

Test record

Configure query logging

### ▶ Hosted zone details

Edit hosted zone

Records (2)

DNSSEC signing

Hosted zone tags (0)

### Records (2) [Info](#)



Delete record

Import zone file

Create record

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

Filter records by property or value

Type ▼

Routing p... ▼

Alias ▼

< 1 > ⚙

<input type="checkbox"/>	Record ... ▼	Type ▼	Routin... ▼	Differ... ▼	Alias ▼	Value/Route traffic to ▼	TTL (s... ▼	Health ... ▼	Evalua... ▼	Record ID
<input type="checkbox"/>	good593....	NS	Simple	-	No	ns-798.awsdns-35.net. ns-1652.awsdns-14.co.uk. ns-1295.awsdns-33.org. ns-114.awsdns-14.com.	172800	-	-	-
<input type="checkbox"/>	good593....	SOA	Simple	-	No	ns-798.awsdns-35.net. awsd...	900	-	-	-

## 단계4: 기존 DNS에 생성된 NS 업데이트

Route 53

Dashboard

Hosted zones

Health checks

Profiles [New](#)

▼ IP-based routing

CIDR collections

▶ Traffic flow

▼ Domains

Registered domains

Requests

<

Registered domains [Info](#)

🔍 Search domains by name

Domain name	▲	Expiration date	▼	Auto-renew	Transfer lock
<a href="#">good593.click</a>		November 12, 2025		Off	Off

[Download billing report](#)

Transfer in ▼

good593.click [Info](#)

Transfer out ▼

Delete domain

Details [Info](#)

**Registration date**  
November 12, 2024, 11:11 (UTC:+09:00)

**Expiration date**  
November 12, 2025

**Auto-renew**  
Off

**Transfer lock**  
Off

**Domain status code**  
addPeriod  
ok

**DNSSEC status**  
Not configured

**Name servers**  
ns-798.awsdns-35.net  
ns-1652.awsdns-14.co.uk  
ns-1295.awsdns-33.org  
ns-114.awsdns-14.com

Actions ▲

- Edit name servers
- Renew domain registration
- Turn on auto-renew
- Turn on transfer lock

Contact information

DNSSEC keys

Tags

Contact information [Info](#)

Edit

**Registrant contact**  
Gyoungwon Cho

Verified

**Admin contact**  
Gyoungwon Cho

### Name server

ns-798.awsdns-35.net

Remove

ns-1652.awsdns-14.co.uk

Remove

ns-1295.awsdns-33.org

Remove

ns-114.awsdns-14.com

Remove

Add a new name server

You can add up to 2 more nameservers.

Cancel

Save changes

Billing contact

## (옵션)오류 - DNS\_PROBE\_FINISHED\_NXDOMAIN

- 도메인의 상태

# 윈도우인 경우

```
whois -v example.com # 도메인명
```

# 리눅스인 경우

```
whois example.com # 도메인명
```

## ECS와 DNS 연결

## DNS 레코드

- DNS Record는 DNS 서버가 해당 패킷을 받았을 때 어떤식으로 처리할지를 나타내는 지침을 말한다.
- 간단히 말하면 DNS 상에서 도메인에 관한 설정을 하기 위해 사용되는 일련의 설정 문자라고 보면 된다.
- DNS 레코드에는 서버가 요청에 응답하는 방법에 대한 다양한 구문과 명령이 포함되어 있다.

## 단계1: ECS의 Public IP 복사

Amazon Elastic Container Service

×

Clusters




Namespaces

Task definitions

Account settings

Install AWS Copilot

Configuration

Operating system/Architecture Linux/X86_64	Capacity provider -	ENI ID <a href="#">eni-00b6a7e8a02405ed7</a>	Public IP  43.203.119.60   <a href="#">open address</a>
CPU   Memory 1 vCPU   2 GB	Launch type FARGATE	Network mode awsvpc	Private IP  172.31.15.169
Platform version 1.4.0	Container instance ID -	Subnet ID <a href="#">subnet-0738ec1030c59c068</a>	MAC address  02:51:de:cf:e1:ef



## 단계2: Create record

Records (2)

DNSSEC signing

Hosted zone tags (0)

Records (2) [Info](#)

Delete record

Import zone file

Create record

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

Q

Filter records by property or value

Type ▼

Routing policy ▼

Alias ▼

< 1 >

<input type="checkbox"/>	Record ... ▼	Type ▼	Routin... ▼	Differ... ▼	Alias ▼	Value/Route traffic to ▼	TTL (s... ▼	Health ... ▼	Evalua... ▼	Record ID ▼
<input type="checkbox"/>	good593....	NS	Simple	-	No	ns-1671.awsdns-16.co.uk. ns-1337.awsdns-39.org. ns-335.awsdns-41.com. ns-554.awsdns-05.net.	172800	-	-	-
<input type="checkbox"/>	good593....	SOA	Simple	-	No	ns-1671.awsdns-16.co.uk. a...	900	-	-	-

## 단계3: DNS 레코드 생성

- **Record name(레코드 이름)** : 라우팅할 이름을 지정, 지정하지 않으면 기본 도메인 이름이 설정된다. 예를 들어 `www` 만 입력하게되면 `www.recordname.com` 의 도메인이 라우팅 된다.
- **Record type(레코드 유형)** : DNS 레코드를 선택하는 항목이다. ec2로 라우팅 시 ipv4 로 라우팅하기때문에 건들지 않는다.
- **Value(값)** : 라우팅 할 ec2의 ipv4 를 입력. 다른 AWS 리소스로 라우팅이 가능한 유형의 경우 별칭을 체크하면 라우팅 가능한 서비스를 선택할 수 있다.
- **TTL** : DNS에 ip주소를 저장할 시간(초), health check 기능을 사용할 경우 AWS에서는 60 초 이하를 권장한다.
- **Routing policy(라우팅 정책)** : 트래픽에 대한 라우팅방법 선택.

## Quick create record

[Switch to wizard](#)

### ▼ Record 1

Delete

Record name [Info](#)

www

.good593.click

Keep blank to create a record for the root domain.

☐ Alias

Value [Info](#)

43.203.119.60

Enter multiple values on separate lines.

TTL (seconds) [Info](#)

60

1m

1h

1d

Recommended values: 60 to 172800 (two days)

Record type [Info](#)

A – Routes traffic to an IPv4 address and some AWS resources ▼

Routing policy [Info](#)

Simple routing ▼

Add another record

Cancel

Create records

## 단계4: DNS를 이용한 Streamlit 접속

Route 53

×

Dashboard

Hosted zones

Health checks

Profiles [New](#)

▼ IP-based routing

CIDR collections

▼ Traffic flow

Traffic policies

Policy records

▼ Domains

Registered domains

Requests

▼ Resolver

VPCs

Inbound endpoints

Outbound endpoints

Rules

Route 53 > Hosted zones > good593.click

Public good593.click [Info](#)

Delete zone Test record Configure query logging

▶ Hosted zone details [Edit hosted zone](#)

Records (3) DNSSEC signing Hosted zone tags (0)

Records (3) [Info](#)

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

Filter records by property or value

Type ▼ Routing policy ▼ Alias ▼ < 1 > ⚙

<input type="checkbox"/>	Record name ▼	Type ▼	Routin... ▼	Differ... ▼	Alias ▼	Value/Route traffic to ▼	TTL (s... ▼	Health ... ▼	Evalu...
<input type="checkbox"/>	good593.click	NS	Simple	-	No	ns-1671.awsdns-16.co.uk. ns-1337.awsdns-39.org. ns-335.awsdns-41.com. ns-554.awsdns-05.net.	172800	-	-
<input type="checkbox"/>	good593.click	SOA	Simple	-	No	ns-1671.awsdns-16.co.uk. a...	900	-	-
<input type="checkbox"/>	www.good593.click	A	Simple	-	No	43.203.119.60	60	-	-

DNS:8501

