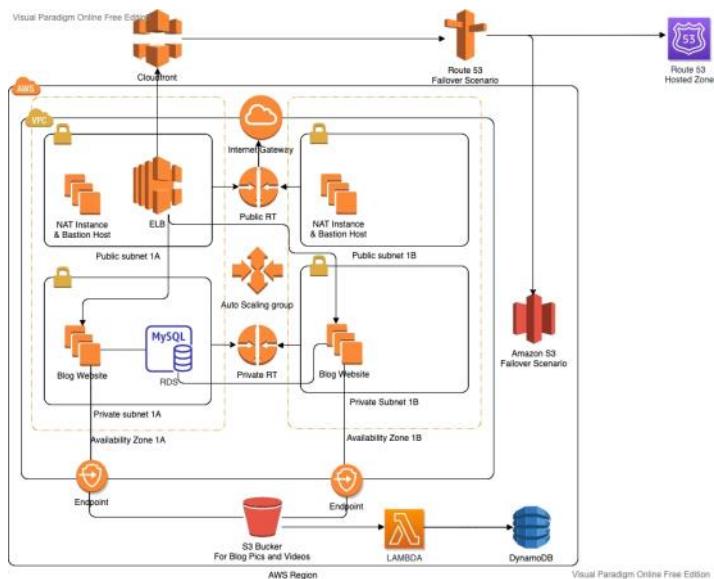


My-AWS-Capstone-Project

Saturday, 21 August 2021 10.59



Github da yeni repo olusturalim

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
[Import a repository.](#)

Owner * Repository name *



/ My-AWS-Capstone-Project ✓

Great repository names are short and memorable. Need inspiration? How about [solid-octo-goggles](#)?

Description (optional)

Public

Anyone on the internet can see this repository. You choose who can commit.

Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

Add a README file

This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

Create repository

Locale clone yapalim

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH https://github.com/hamidgokce/My-AWS-Capstone-Project.git

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line

```
echo "# My-AWS-Capstone-Project" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/hamidgokce/My-AWS-Capstone-Project.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/hamidgokce/My-AWS-Capstone-Project.git
git branch -M main
git push -u origin main
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

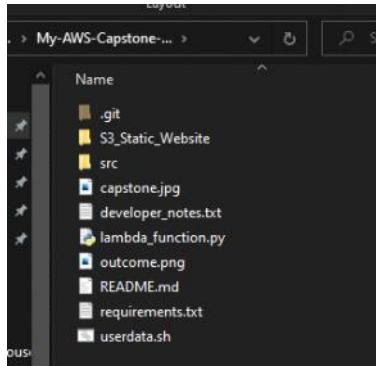
[Import code](#)

```
hamid@LAPTOP-U8P0504G MINGW64 ~/Desktop/CLARUSWAY/AWS/PROJECTS/MY_PROJECTS (main)
$ git clone https://github.com/hamidgokce/My-AWS-Capstone-Project.git
Cloning into 'My-AWS-Capstone-Project'...
warning: You appear to have cloned an empty repository.
```

My-AWS-Capstone-Project

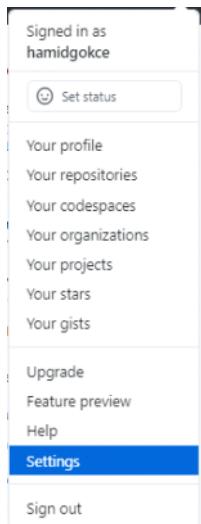
Daha once git hub dan cektigimiz proje icerigini kopyalayalim

Kopyalama sonrasi gorselimiz

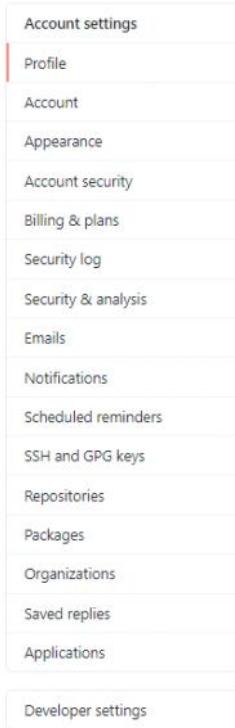


Token nasil alinir?

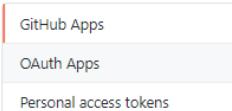
Git hub da iki repo var(public/private) Private de calisirken token kullanmamiz gerekmekte, erisim sadece bu yolla olur. Bir nevi sifre acici anahtar



Developer settings



Personal access tokens



Generate new token

Personal access tokens

Generate new token

Sifre girelim

Confirm access

Password

[Forgot password?](#)

Confirm password

New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

Note

My-AWS-capstone-project

What's this token for?

Expiration *

No expiration The token will never expire!

Beep boop! Tokens that live forever are scary. Expiration dates are highly recommended!

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

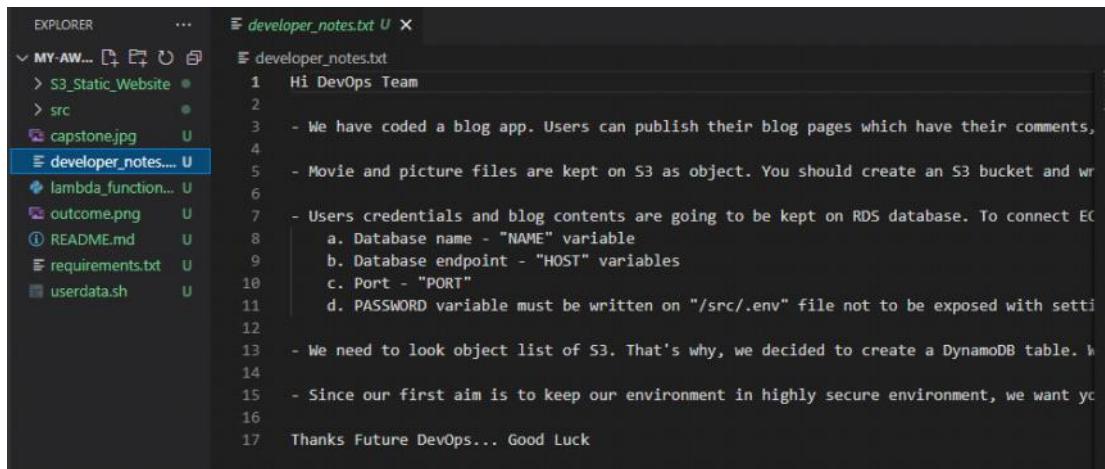
<input type="checkbox"/> repo	Full control of private repositories
<input type="checkbox"/> repo:status	Access commit status
<input type="checkbox"/> repo_deployment	Access deployment status
<input type="checkbox"/> public_repo	Access public repositories
<input type="checkbox"/> repo:invite	Access repository invitations
<input type="checkbox"/> security_events	Read and write security events
<input checked="" type="checkbox"/> workflow	Update GitHub Action workflows
<input checked="" type="checkbox"/> write:packages	Upload packages to GitHub Package Registry
<input type="checkbox"/> read:packages	Download packages from GitHub Package Registry
<input checked="" type="checkbox"/> delete:packages	Delete packages from GitHub Package Registry
<input checked="" type="checkbox"/> admin:org	Full control of orgs and teams, read and write org projects
<input type="checkbox"/> write:org	Read and write org and team membership, read and write org projects
<input type="checkbox"/> read:org	Read org and team membership, read org projects
<input checked="" type="checkbox"/> admin:public_key	Full control of user public keys
<input type="checkbox"/> write:public_key	Write user public keys
<input type="checkbox"/> read:public_key	Read user public keys
<input checked="" type="checkbox"/> admin:repo_hook	Full control of repository hooks
<input type="checkbox"/> write:repo_hook	Write repository hooks
<input type="checkbox"/> read:repo_hook	Read repository hooks
<input checked="" type="checkbox"/> admin:org_hook	Full control of organization hooks
<input checked="" type="checkbox"/> gist	Create gists
<input checked="" type="checkbox"/> notifications	Access notifications
<input checked="" type="checkbox"/> user	Update ALL user data
<input checked="" type="checkbox"/> read:user	Read ALL user profile data
<input checked="" type="checkbox"/> user:email	Access user email addresses (read-only)
<input checked="" type="checkbox"/> user:follow	Follow and unfollow users
<input checked="" type="checkbox"/> delete_repo	Delete repositories
<input checked="" type="checkbox"/> write:discussion	Read and write team discussions
<input type="checkbox"/> read:discussion	Read team discussions
<input checked="" type="checkbox"/> admin:enterprise	Full control of enterprises
<input type="checkbox"/> manage_billing:enterprise	Read and write enterprise billing data
<input type="checkbox"/> read:enterprise	Read enterprise profile data
<input checked="" type="checkbox"/> admin:gpg_key	Full control of public user GPG keys (Developer Preview)
<input type="checkbox"/> write:gpg_key	Write public user GPG keys
<input type="checkbox"/> read:gpg_key	Read public user GPG keys

Generate token

[Cancel](#)

Generate token (vermis oldugu dosyayi locale kaydedelim)

Calistigimiz sirketin developerlari blok sitesi hazirlamislar ve kodu devops timine yollamislar. Bize ozel note belirtmisler



The screenshot shows a code editor with an 'EXPLORER' sidebar on the left containing files like 'S3_Static_Website', 'src', 'capstone.jpg', 'developer_notes...', 'lambda_function...', 'outcome.png', 'README.md', 'requirements.txt', and 'userdata.sh'. The main pane displays the 'developer_notes.txt' file with the following content:

```
Hi DevOps Team
-
- We have coded a blog app. Users can publish their blog pages which have their comments,
-
- Movie and picture files are kept on S3 as object. You should create an S3 bucket and wr
-
- Users credentials and blog contents are going to be kept on RDS database. To connect EC
    a. Database name - "NAME" variable
    b. Database endpoint - "HOST" variables
    c. Port - "PORT"
    d. PASSWORD variable must be written on "/src/.env" file not to be exposed with setti
-
- We need to look object list of S3. That's why, we decided to create a DynamoDB table. W
-
- Since our first aim is to keep our environment in highly secure environment, we want yo
-
Thanks Future DevOps... Good Luck
```

Proje fotomuz

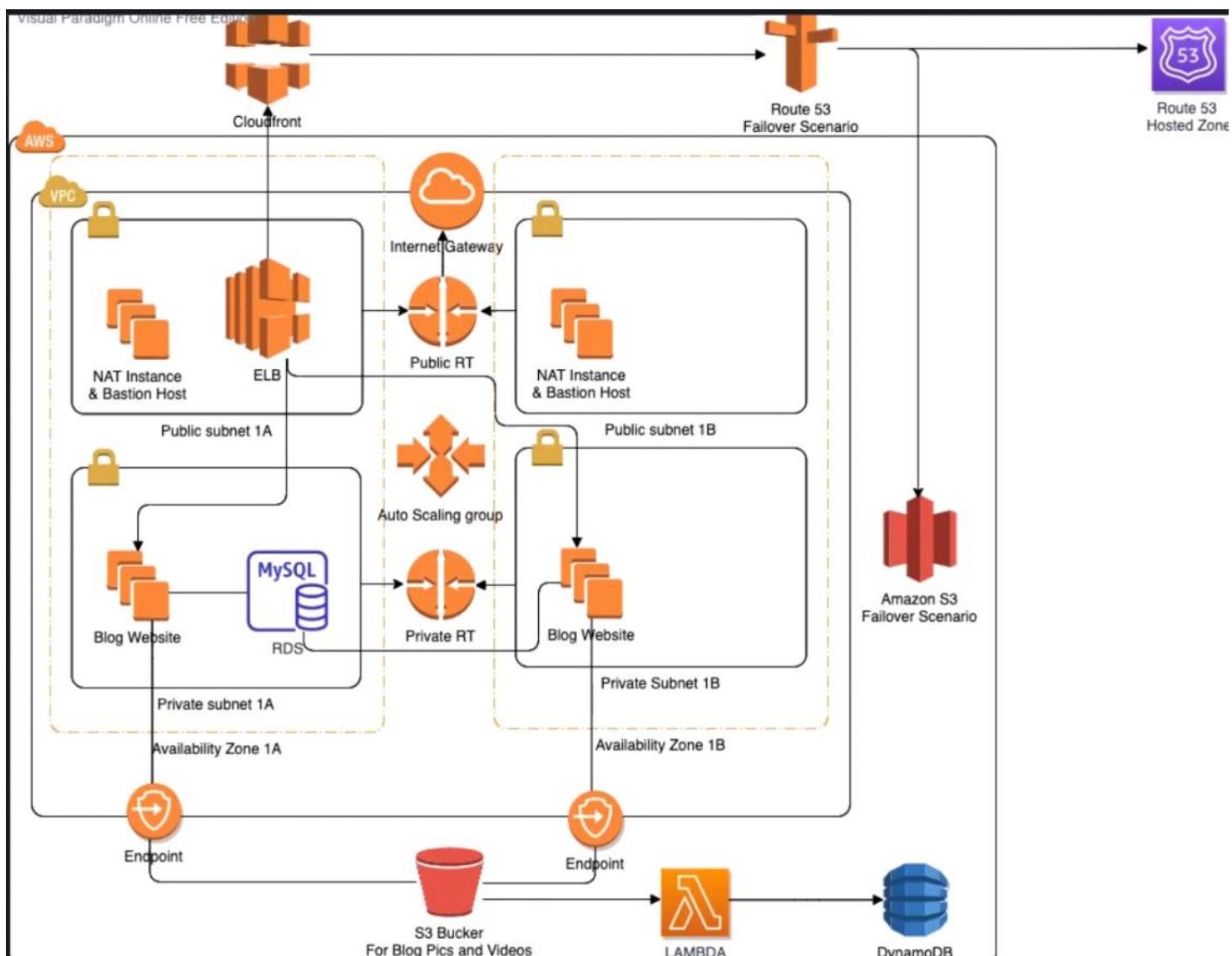
BUGUNKI DERSTEYAPACAKLARIMIZ :

Ters muhendislik

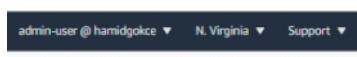
- Yakisikli bir adres mevcut ve kullanici karsina cikacak (Route 53)
 - Route53 failover senaryosu ile cikmaka
 - o Her sey yolundaysa ==> cloud front dan cekecek
 - o Her sey yolunda degilse==> s3 den cekecek
- Calismada default vpc de calisilmaz bu sebeple 2 private/public subnet olusturacagiz
- Internet gate way olacak
- Public/private root table lar olusturacagiz
- Private da database kuracagiz
- Private icerisindeki database, RDS i EC2 lar ayaga kaldıracak, EC2 lar ASG ye baglanacak, Auto Scalling i Load Balancer ile ayarlayacagiz, Load Balancerin onune global calismasi icin cloud front koyacagiz
- Kullanicilar video, foto yukleyeceklerse==> S3 bucket
- S3 e dis dunyadan ulasim istenmediği için vpc uzerinden end point kuracagiz
- Eger foto yorum eklendiginde bunu da lambda fonksiyonuna

baglayacaz dynamodb de bir tablo olusturacagiz girilen herseyi bu tabloda gorecegiz

- Private ec2 larin bazi ihtiyacları olabilir guncelleme security gibi
- Bir sekilde ssh ile ulasmamız gerekir ama private de oldugu icin ulasamayacagiz
- Bunun icin nat instance kuracagiz (bastion host == ec2 ya baglanabilmek icin) private kaynaklar icin public te kurulur



Tum islemler N. Virginia uzerinden yapacagiz



VPC yi acalim

Services

VPC
Isolated Cloud Resources

Your VPCs (2) Info

Name	VPC ID	State	IPv4 CIDR
-	vpc-282cb155	Available	172.31.0.0/16
clarus-vpc-a	vpc-0dcf3f9fc2080605b	Available	10.7.0.0/16

Create VPC Info

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

Name tag - optional
Creates a tag with a key of 'Name' and a value that you specify.
aws_capstone-VPC

IPv4 CIDR block Info
90.90.0.0/16

IPv6 CIDR block Info
 No IPv6 CIDR block
 Amazon-provided IPv6 CIDR block
 IPv6 CIDR owned by me

Tenancy Info
Default

Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
Q Name X	Q aws_capstone-VPC X Remove

Add new tag
You can add 49 more tags.

Create VPC

/16 anlami ==> 65 kusur tane IP olusturabilirim

Tenancy : kiralama metodu / 3 yilligina kendine ait vpc

kiralayabiliriz

Tenancy özellikle AWS CLI/SDK kullanirken işe yarar VPC lerde.

Ayrılımiş dedice bir tenancy bir VPC'de başlatılan tüm EC2 sunucularının tek bir müşteriye ayrılmış donanım üzerinde çalışmasını sağlar. Bazı firmalar güvenlik için tercih eder veya bazıları da kendilerine has bir platform olsun isterler

Details		Info	
VPC ID vpc-045d76405de1b8cb5	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP options set dopt-7d81bf07	Main route table rtb-09671f0d60de4b838	Main network ACL acl-0fb60d273c25a989c
Default VPC No	IPv4 CIDR 90.90.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Route 53 Resolver DNS Firewall rule groups -	Owner ID 000667629202		

- Dns hostnames enable etmemiz lazim

Actions ▾

- [Create flow log](#)
- [Edit CIDRs](#)
- [Edit DHCP options set](#)
- [Edit DNS hostnames](#)

Edit DNS hostnames [Info](#)

DNS hostnames
Indicates whether instances with public IP addresses get corresponding public DNS hostnames.

VPC ID vpc-045d76405de1b8cb5	DNS hostnames <input checked="" type="checkbox"/> Enable
---------------------------------	---

[Cancel](#) [Save changes](#)

- Vpc kurduk simdi subnet kuracagiz

```
## Subnets
- Create Subnets
  - Create a public subnet named `aws_capstone-public-subnet-1A` under the vpc
    aws_capstone-VPC in AZ us-east-1a with 90.90.10.0/24
  - Create a private subnet named `aws_capstone-private-subnet-1A` under the vpc
    aws_capstone-VPC in AZ us-east-1a with 90.90.11.0/24
  - Create a public subnet named `aws_capstone-public-subnet-1B` under the vpc
    aws_capstone-VPC in AZ us-east-1b with 90.90.20.0/24
  - Create a private subnet named `aws_capstone-private-subnet-1B` under the vpc
    aws_capstone-VPC in AZ us-east-1b with 90.90.21.0/24
```

1-

Subnets (12) [Info](#)

Actions ▾
[Create subnet](#)

VPC

VPC ID
Create subnets in this VPC.

vpc-045d76405de1b8cb5 (aws_capstone-VPC) ▾

Associated VPC CIDRs

IPv4 CIDRs
90.90.0.0/16

Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
aws_capstone-public-subnet-1A

The name can be up to 256 characters long.

Availability Zone Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
US East (N. Virginia) / us-east-1a

IPv4 CIDR block Info
90.90.10.0/24 X

Tags - optional

Key Value - optional

Name aws_capstone-public-subnet-1. X Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

Cancel Create subnet

2-

VPC

VPC ID
Create subnets in this VPC.

vpc-045d76405de1b8cb5 (aws_capstone-VPC) ▾

Associated VPC CIDRs

IPv4 CIDRs
90.90.0.0/16

Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
aws_capstone-private-subnet-1A

The name can be up to 256 characters long.

Availability Zone [Info](#)
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
US East (N. Virginia) / us-east-1a ▾

IPv4 CIDR block [Info](#)
Q_ 90.90.11.0/24 X

▼ Tags - optional

Key Value - optional

Q_ Name X Q_ aws_capstone-private-subnet-1 X Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

Cancel **Create subnet**

3- |

VPC

VPC ID
Create subnets in this VPC.

vpc-045d76405de1b8cb5 (aws_capstone-VPC) ▾

Associated VPC CIDRs

IPv4 CIDRs
90.90.0.0/16

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

aws_capstone-public-subnet-1b

The name can be up to 256 characters long.

Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (N. Virginia) / us-east-1b ▾

IPv4 CIDR block [Info](#)

Q 90.90.20.0/24 X

▼ Tags - optional

Key

Q Name X

Value - optional

Q aws_capstone-public-subnet-1b X

Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

Cancel

Create subnet

4- |

Create subnet [Info](#)

VPC

VPC ID
Create subnets in this VPC.
vpc-045d76405de1b8cb5 (aws_capstone-VPC)

Associated VPC CIDRs
IPv4 CIDRs
90.90.0.0/16

Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
aws_capstone-private-subnet-1B

The name can be up to 256 characters long.

Availability Zone [Info](#)
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
US East (N. Virginia) / us-east-1b

IPv4 CIDR block [Info](#)
Q 90.90.21.0/24 X

▼ Tags - optional

Key	Value - optional
Q Name X	Q aws_capstone-private-subnet-1 X Remove
Add new tag	

You can add 49 more tags.

Remove Add new subnet

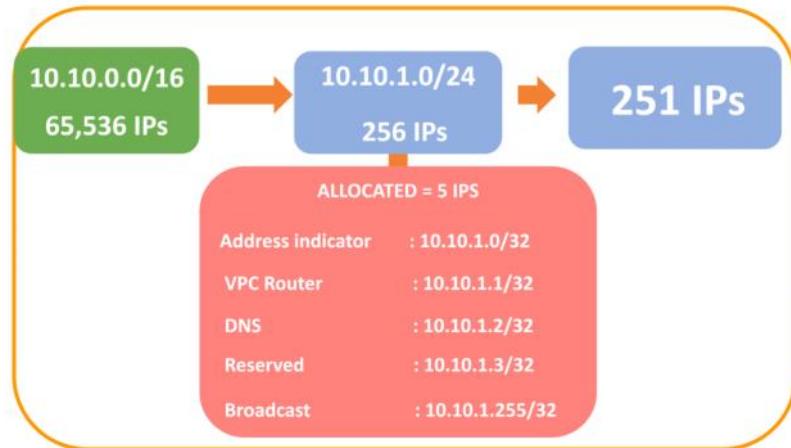
[Cancel](#) [Create subnet](#)

- Oluşturduğumuz subnetler

<input type="checkbox"/>	aws_capstone-private-subnet-1A	subnet-03f008d897753ce83	<input checked="" type="checkbox"/> Available
<input type="checkbox"/>	aws_capstone-private-subnet-1B	subnet-0307e833dcfeb091a	<input checked="" type="checkbox"/> Available
<input type="checkbox"/>	aws_capstone-public-subnet-1A	subnet-0c4294547cef4dc9f	<input checked="" type="checkbox"/> Available
<input type="checkbox"/>	aws_capstone-public-subnet-1B	subnet-012dd15a9971837b2	<input checked="" type="checkbox"/> Available

- 251 yazmasının sebebi aşağıdaki görsel (reserved)

► VPC CIDR



- Subnetler icerisine otomatik ip atamasini istiyoruz

Subnets (1/16) Info		Actions		
<input type="checkbox"/>	Name	Subnet ID	Actions	View details
<input type="checkbox"/>	-	subnet-fb69fdca	Edit IPv6 CIDRs	28
<input type="checkbox"/>	-	subnet-46521220	Edit network ACL association	28
<input type="checkbox"/>	-	subnet-06eda227	Edit route table association	28
<input type="checkbox"/>	-	subnet-222d3d6f	Edit CIDR reservations	28
<input type="checkbox"/>	-	subnet-5f652800	Share subnet	28
<input type="checkbox"/>	-	subnet-e4251fea	Manage tags	28
<input type="checkbox"/>	aws_capstone-private-subnet-1A	subnet-03f008d897753ce83	Delete subnet	04
<input type="checkbox"/>	aws_capstone-private-subnet-1B	subnet-0307e833dcfeb091a	Available	vpc-04
<input checked="" type="checkbox"/>	aws_capstone-public-subnet-1A	subnet-0c4294547cef4dc9f	Available	vpc-04
<input type="checkbox"/>	aws_capstone-public-subnet-1B	subnet-012dd15a9971837b2	Available	vpc-04

VPC > Subnets > subnet-0c4294547cef4dc9f > Modify auto-assign IP settings

Modify auto-assign IP settings [Info](#)

Enable the auto-assign IP address setting to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

Settings

Subnet ID: subnet-0c4294547cef4dc9f

Auto-assign IPv4 [Info](#)

Enable auto-assign public IPv4 address

Auto-assign customer-owned IPv4 address [Info](#)

Enable auto-assign customer-owned IPv4 address
Option disabled because no customer owned pools found.

[Cancel](#) [Save](#)

- Ayni islemi diger public icinde yapalim



- Dis dunya ile irtibati public ler uzerinden yap ayarini route table uzerinden yapalim

Bu talimatı verebilmek icin Internet gateway olusturabilmemiz lazim
IGW internece acilan kapi

Internet gateways (2) Info						Actions		Create internet gateway
<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID				
<input type="checkbox"/>	clarus-igw	igw-0c39114f287f9aaa7	Attached	vpc-0dcf3f9fc2080605b clarus-vpc				
<input type="checkbox"/>	-	igw-c18546bb	Attached	vpc-282cb155				

Create internet gateway Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

Name tag
Creates a tag with a key of 'Name' and a value that you specify.

Tags - optional
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Name"/> X	<input type="text" value="aws_capstone-IGW"/> X

Add new tag
You can add 49 more tags.

Create Internet gateway

Oluşturduğumuz VPC'ye bağlamamız gerekmektedir

Internet gateways (1/3) <small>Info</small>				
<input type="button" value="Create Internet gateway"/>				
<input type="text"/> Filter internet gateways				
Name	Internet gateway ID	State	Actions	
<input checked="" type="checkbox"/> aws_capstone-IGW	igw-0c332374be12c974e	<input type="radio"/> Detach	<input type="button" value="View details"/> <input type="button" value="Attach to VPC"/> <input type="button" value="Manage tags"/> <input type="button" value="Delete internet gateway"/>	:20
<input type="checkbox"/> clarus-igw	igw-0c39114f287f9aaa7	<input type="radio"/> Attached		
<input type="checkbox"/> -	iow-ct8546bb	<input type="radio"/> Attached		vpc-282cb155

Attach to VPC (igw-0c332374be12c974e) Info

VPC
Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs
Attach the internet gateway to this VPC.

Available VPCs
<input type="text" value="vpc-045d76405de1b8cb5 - aws_capstone-VPC"/>

AWS Command Line Interface command

Attach internet gateway

- Route table daki gerekli ayarlamaları yapabiliyoruz

Name
<input type="checkbox"/> default-root table
<input type="checkbox"/> clarus-vpc-a-rt
<input type="checkbox"/> clarus-private-rt
<input type="checkbox"/> -
<input type="checkbox"/> clarus-public-rt

Başında - olan kurduğumuz VPC'ye aittir.

VPC
vpc-282cb155
vpc-0dcf3f9fc2080605b clarus-vpc-a
vpc-0dcf3f9fc2080605b clarus-vpc-a
vpc-045d76405de1b8cb5 aws_capstone-VPC
vpc-0dcf3f9fc2080605b clarus-vpc-a

Görselinden anlayabiliyoruz

Main route table i public ilan ettik sadece adlandırdık

Create route table

VPC > Route tables > Create route table

Create route table Info

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

VPC
The VPC to use for this route table.

Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="aws_capstone-private-RT"/> <input type="button" value="Remove"/>
<input type="button" value="Add new tag"/>	

You can add 49 more tags.

- Route table lara subnet baglayacagiz

Edit routes

<input checked="" type="checkbox"/>	aws_capstone-private-RT	rtb-000ade637275f7e85	-	-
<input type="checkbox"/>	aws_capstone-public-RT	rtb-09671f0d60dc4b838	-	-
<input type="checkbox"/>	clarus-public-rt	rtb-0dce668b62b24c693	3 subnets	-

rtb-000ade637275f7e85 / aws_capstone-private-RT

Details | **Routes** | Subnet associations | Edge associations | Route propagation | Tags

Routes (1)

Destination	Target	Status	Propagated
90.90.0.0/16	local	Active	No

Internet gate way i ekleyecegiz (dis dunyaya her yere igw sayesinde)

cik)

Target

Search

Carrier Gateway
Egress Only Internet Gateway
Gateway Load Balancer Endpoint
Instance
Internet Gateway
local
NAT Gateway
Network Interface
Outpost Local Gateway
Peering Connection
Transit Gateway
Virtual Private Gateway

VPC > Route tables > rtb-000ade637275f7e85 > Edit routes

Edit routes

Edit routes		
Destination	Target	Status
90.90.0.0/16	<input type="text"/> local X	Active
Propagated	No	
Edit routes		
Destination	Target	Status
<input type="text"/> 0.0.0.0/0 X	<input type="text"/> igw-0c332374be12c974e X	-
Propagated	No	
Remove		
Add route		

Cancel Preview Save changes

Edit routes (private icin)

<input checked="" type="checkbox"/>	aws_capstone-private-RT	rtb-000ade637275f7e85	-	-
<input type="checkbox"/>	aws_capstone-public-RT	rtb-09671f0d60de4b838	-	-
<input type="checkbox"/>	clarus-public-rt	rtb-0dcee68b62b24c693	3 subnets	-

= Edit routes

rtb-000ade637275f7e85 / aws_capstone-private-RT

Details Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Destination	Target	Status	Propagated
90.90.0.0/16	local	Active	No
0.0.0.0/0	igw-0c332374be12c974e	Active	No

rtb-000ade637275f7e85 / aws_capstone-private-RT

Details Routes **Subnet associations** Edge associations Route propagation Tags

Explicit subnet associations (0)

Edit subnet associations

No subnet associations

You do not have any subnet associations.

VPC > Route tables > rtb-000ade637275f7e85 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/4)

Selected subnets

subnet-012dd15a9971837b2 / aws_capstone-public-subnet-1B X subnet-0c4294547cef4dc9f / aws_capstone-public-subnet-1A X

Cancel **Save associations**

<input checked="" type="checkbox"/>	aws_capstone-public-RT	rtb-09671f0d60de4b838	-	-
<input type="checkbox"/>	clarus-public-rt	rtb-0dcee68b62b24c693	3 subnets	-

Details	Routes	Subnet associations	Edge associations	Route propagation	Tags

Explicit subnet associations (0)		Edit subnet associations
<input type="text"/> Find subnet association		< 1 > ⌂
Subnet ID	IPv4 CIDR	IPv6 CIDR
No subnet associations		
You do not have any subnet associations.		

VPC > Route tables > rtb-09671f0d60de4b838 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/4)						
<input type="text"/> Filter subnet associations						
Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID		
<input type="checkbox"/> aws_capstone-public-subnet-1A	subnet-0c4294547cef4dc9f	90.90.10.0/24	-	rtb-000ade637275f7e85 / aws_capstone-private-RT		
<input checked="" type="checkbox"/> aws_capstone-private-subnet-1A	subnet-03f008d897753ce83	90.90.11.0/24	-	Main (rtb-09671f0d60de4b838 , aws_capstone-public-RT)		
<input type="checkbox"/> aws_capstone-public-subnet-1B	subnet-012dd15a9971837b2	90.90.20.0/24	-	rtb-000ade637275f7e85 / aws_capstone-private-RT		
<input checked="" type="checkbox"/> aws_capstone-private-subnet-1B	subnet-0307e833dcfeb091a	90.90.21.0/24	-	Main (rtb-09671f0d60de4b838 , aws_capstone-public-RT)		

Selected subnets	
<input type="text"/> subnet-03f008d897753ce83 / aws_capstone-private-subnet-1A X	<input type="text"/> subnet-0307e833dcfeb091a / aws_capstone-private-subnet-1B X

Cancel
Save associations

Public private isim degisikligi yapmamiz gerekiyor

S3 icin bir tane endpoint olusturmamiz gerekmektedir.

New VPC Experience
Tell us what you think

Create Endpoint Actions ▾

Filter by tags and attributes or search by keyword

You do not have any Endpoints in this region

Click the Create Endpoint button to create your first Endpoint

Create Endpoint

VIRTUAL PRIVATE CLOUD

- Your VPCs
- Subnets
- Route Tables New
- Internet Gateways
- Egress Only Internet Gateways
- Carrier Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints**

Endpoints > Create Endpoint

Create Endpoint

A VPC endpoint enables you to securely connect your VPC to another service.

There are three types of VPC endpoints – Interface endpoints, Gateway Load Balancer endpoints, and gateway endpoints.

Interface endpoints and Gateway Load Balancer endpoints are powered by [AWS PrivateLink](#), and use an elastic network interface (ENI) as an entry point for traffic destined to the service. Interface endpoints are typically accessed using the public or private DNS name associated with the service, while gateway endpoints and Gateway Load Balancer endpoints serve as a target for a route in your route table for traffic destined for the service.

Service category AWS services
 Find service by name
 Your AWS Marketplace services

Service Name com.amazonaws.us-east-1.s3

Search: s3 1 to 2 of 2		
Service Name	Owner	Type
com.amazonaws.us-east-1.s3	amazon	Gateway
com.amazonaws.us-east-1.s3	amazon	Interface

VPC*

Configure route tables A rule with destination pl-63a5400a (com.amazonaws.us-east-1.s3) and a target with this endpoint's ID (e.g. vpce-12345678) will be added to the route tables you select below.

Subnets associated with selected route tables will be able to access this endpoint.

rtb-09671f0d60de4b838

Route Table ID	Main	Associated With
rtb-000ade637275f7e85	No	2 subnets
rtb-09671f0d60de4b838	Yes	2 subnets

VPC*

Configure route tables

Filter by attributes			
vpc-282cb155	172.31.0.0/16	available	endpoint
vpc-0dcf3f9fc2080605b	10.7.0.0/16	available	clarus-vpc-a
vpc-045d76405de1b8cb5	90.90.0.0/16	available	aws_capstone-VPC

Private olani secelim

Route Table ID	Main	Associations
<input type="checkbox"/> rtb-000ade63725f7e85	No	2 subnets
<input type="checkbox"/> rtb-09671f0d60de4b838	Yes	2 subnets

[Cancel](#) [Create endpoint](#)

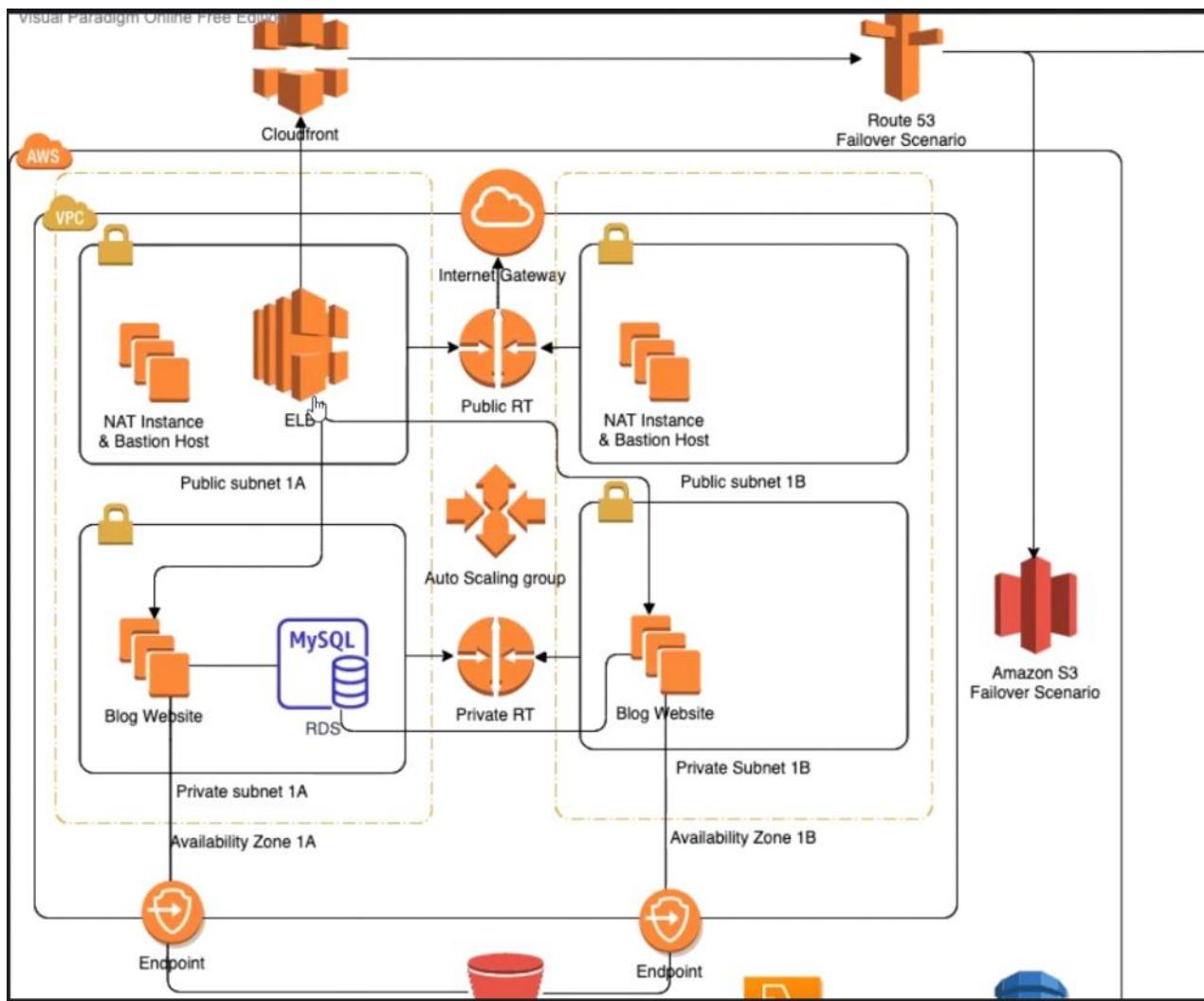
Route table da vpc end point olarak gorunmektedir

End point sadece s3 ile irtibat kurmamizi saglamaktadir. (point the point S3 diyebiliriz)

Destination	Target	Status	Propagated
90.90.0.0/16	local	Active	No
pl-63a5400a	vpce-0157d47f79a5b8717	Active	No

Aşağıdaki kısım sayfayı yenileyince geldi

Destination	Target	Status	Propagated
pl-63a5400a	vpce-0157d47f79a5b8717	Active	No



Yukarıdaki görselde
 EC2
 RDS
 Nat instance
 ALB için ayrı sec group oluşturacagız
 (asagidaki gorselle gore)

```

### Step 2: Create Security Groups (ALB ---> EC2 ---> RDS)

1. ALB Security Group
Name : aws_capstone_ALB_Sec_Group
Description : ALB Security Group allows traffic HTTP and HTTPS ports from anywhere
Inbound Rules
VPC : AWS_Capstone_VPC
HTTP(80) ----> anywhere
HTTPS (443) ----> anywhere

2. EC2 Security Groups
Name : aws_capstone_EC2_Sec_Group
Description : EC2 Security Groups only allows traffic coming from
aws_capstone_ALB_Sec_Group Security Groups for HTTP and HTTPS ports. In addition, ssh
port is allowed from anywhere
VPC : AWS_Capstone_VPC
Inbound Rules
HTTP(80) ----> aws_capstone_ALB_Sec_Group
HTTPS (443) ----> aws_capstone_ALB_Sec_Group
ssh ----> anywhere

3. RDS Security Groups
Name : aws_capstone_RDS_Sec_Group
Description : EC2 Security Groups only allows traffic coming from
aws_capstone_EC2_Sec_Group Security Groups for MYSQL/Aurora port.

VPC : AWS_Capstone_VPC
Inbound Rules
MYSQL/Aurora(3306) ----> aws_capstone_EC2_Sec_Group

4. NAT Instance Security Group
Name : aws_capstone_NAT_Sec_Group
Description : ALB Security Group allows traffic HTTP and HTTPS and SSH ports from
anywhere
Inbound Rules
VPC : AWS_Capstone_VPC
HTTP(80) ----> anywhere
HTTPS (443) ----> anywhere
SSH (22) ----> anywhere

```

▼ Network & Security

Security Groups

Olusturdugumuz VPC yi sececegiz her birinde

1-

Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info
 Name cannot be edited after creation.

Description Info

VPC Info

Inbound rules Info

Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	Delete
HTTP	TCP	80	Anywhere <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>		<input type="button" value="Delete"/>
HTTPS	TCP	443	Anywhere <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>		<input type="button" value="Delete"/>

2-

Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info
aws_capstone_EC2_Sec_Group
Name cannot be edited after creation.

Description Info
EC2 Security Groups only allows traffic coming from aws_capstone_ALB_Sec_Group Security

VPC Info
vpc-045d76405de1b8cb5

Inbound rules Info

Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	Action
HTTP	TCP	80	Custom ▾ Q sg-01cef22a7616129b6		Delete
HTTPS	TCP	443	Custom ▾ Q sg-01cef22a7616129b6		Delete
SSH	TCP	22	Anywhere ▾ Q 0.0.0.0/0		Delete

Add rule

Oluşturduğumuz 1. sec groubu http/https de seçiyoruz

3-

Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info
aws_capstone_RDS_Sec_Group
Name cannot be edited after creation.

Description Info
EC2 Security Groups only allows traffic coming from aws_capstone_EC2_Sec_Group Security

VPC Info
vpc-045d76405de1b8cb5

Inbound rules Info

Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	Action
MySQL/Aurora	TCP	3306	Custom ▾ Q sg-004d61b867ed1f453		Delete

Add rule

4-

Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info
 Name cannot be edited after creation.

Description Info

VPC Info

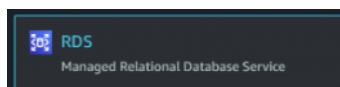
Inbound rules Info

Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	
HTTP	TCP	80	Anywhere <input type="button" value="X"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="text"/>	<input type="button" value="Delete"/>
HTTPS	TCP	443	Anywhere <input type="button" value="X"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="text"/>	<input type="button" value="Delete"/>
SSH	TCP	22	Anywhere <input type="button" value="X"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="text"/>	<input type="button" value="Delete"/>

Olusturulan sg ler

<input type="checkbox"/>	-	sg-01cef22a7616129b6	aws_capstone_ALB_Sec_Group
<input type="checkbox"/>	-	sg-004d61b867ed1f453	aws_capstone_EC2_Sec_Group
<input type="checkbox"/>	-	sg-0ee2dcf21de38f596	aws_capstone_NAT_Sec_Group
<input type="checkbox"/>	-	sg-03e4bece624e03db2	aws_capstone_RDS_Sec_Group

RDS konsoluna gecelim



Subnet groups olusturacagiz

```
### Step 3: Create RDS
First we create a subnet group for our custom VPC. Click `subnet Groups` on the left hand menu and click `create DB Subnet Group`
```text
Name : aws_capstone_RDS_Subnet_Group
Description : aws capstone RDS Subnet Group
VPC : aws_capstone_VPC
Add Subnets
Availability Zones : Select 2 AZ in aws_capstone_VPC
Subnets : Select 2 Private Subnets in these subnets
```

```

Amazon RDS

Dashboard
Databases
Query Editor
Performance Insights
Snapshots
Automated backups
Reserved instances
Proxies

Subnet groups

Create DB Subnet Group

RDS > Subnet groups > Create DB Subnet Group

Create DB Subnet Group

To create a new subnet group, give it a name and a description, and choose an existing VPC. You will then be able to add subnets related to that VPC.

Subnet group details

Name

You won't be able to modify the name after your subnet group has been created.

aws_capstone_RDS_Subnet_Group

Must contain from 1 to 255 characters. Alphanumeric characters, spaces, hyphens, underscores, and periods are allowed.

Description

aws_capstone_RDS_Subnet_Group

VPC

Choose a VPC identifier that corresponds to the subnets you want to use for your DB subnet group. You won't be able to choose a different VPC identifier after your subnet group has been created.

Choose a VPC

vpc-282cb155

clarus-vpc-a (vpc-0dcf3f9fc2080605b)

aws_capstone-VPC (vpc-045d76405de1b8cb5)

Add subnets

Availability Zones

Choose the Availability Zones that include the subnets you want to add.

Choose an availability zone

us-east-1a

us-east-1b

Private leri seçiyoruz (RDS private de olacak)

Add subnets

us-east-1a

subnet-0c4294547cef4dc9f (90.90.10.0/24)

subnet-03f008d897753ce83 (90.90.11.0/24)

us-east-1b

subnet-012dd15a9971837b2 (90.90.20.0/24)

subnet-0307e833dcfeb091a (90.90.21.0/24)

Select subnets

subnet-03f008d897753ce83 (90.90.11.0/24) X

subnet-0307e833dcfeb091a (90.90.21.0/24) X

| Subnet groups (3) | | | | | |
|--------------------------|-------------------------------|-------------------------------|-----------------------|-----------------------|---|
| | Name | Description | Status | VPC | |
| <input type="checkbox"/> | aws_capstone_rds_subnet_group | aws_capstone_RDS_Subnet_Group | Complete | vpc-045d76405de1b8cb5 |    |

Data base kismina gecelim

```

- Go to the RDS console and click `create database` button
``text
Choose a database creation method : Standard Create
Engine Options : Mysql
Version : 8.0.20
Templates : Free Tier
Settings :
  - DB instance identifier : aws-capstone-RDS
  - Master username : admin
  - Password : Clarusway1234
DB Instance Class : Burstable classes (includes t classes) ---> db.t2.micro
Storage : 20 GB and enable autoscaling(up to 40GB)
Connectivity:
  VPC : aws_capstone_VPC
  Subnet Group : aws_capstone_RDS_Subnet_Group
  Public Access : No
  VPC Security Groups : Choose existing ---> aws_capstone_RDS_Sec_Group
  Availability Zone : No preference
  Additional Configuration : Database port ---> 3306
Database authentication ---> Password authentication
Additional Configuration:
  - Initial Database Name : database1
  - Backup ---> Enable automatic backups
  - Backup retention period ---> 7 days
  - Select Backup Window ---> Select 03:00 (am) Duration 1 hour
  - Maintenance window : Select window ---> 04:00(am) Duration:1 hour
create instance
```

```

Databases					
	Group resources		Actions 		

## Create database

### Choose a database creation method [Info](#)

Standard create

You set all of the configuration options, including ones for availability, security, backups, and maintenance.

Easy create

Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

### Engine options

#### Engine type [Info](#)

Amazon Aurora



MySQL



MariaDB



PostgreSQL



Oracle



Microsoft SQL Server



#### Edition

MySQL Community

Known issues/limitations

Review the Known issues/limitations [Info](#) to learn about potential compatibility issues with specific database versions.

#### Version

MySQL 8.0.20

### Templates

Choose a sample template to meet your use case.

Production

Use defaults for high availability and fast, consistent performance.

Dev/Test

This instance is intended for development use outside of a production environment.

Free tier

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. [Info](#)

## Master user name ve password onemli!

### Settings

#### DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

aws-capstone-RDS

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

#### ▼ Credentials Settings

##### Master username [Info](#)

Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. First character must be a letter

Auto generate a password

Amazon RDS can generate a password for you, or you can specify your own password

#### Master password [Info](#)

\*\*\*\*\*

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote) and @ (at sign).

#### Confirm password [Info](#)

\*\*\*\*\*

```
- Master username : admin
- Password : Clarusway1234
```

**DB instance class**

DB instance class [Info](#)

Standard classes (includes m classes)

Memory optimized classes (includes r and x classes)

Burstable classes (includes t classes)

db.t2.micro  
1 vCPUs 1 GiB RAM Not EBS Optimized

Include previous generation classes

**Storage**

Storage type [Info](#)

General Purpose SSD (gp2)

Allocated storage  
20 GiB  
(Minimum: 20 GiB, Maximum: 16,384 GiB) Higher allocated storage [may improve](#) IOPS performance.

Storage autoscaling [Info](#)  
Provides dynamic scaling support for your database's storage based on your application's needs.

Enable storage autoscaling  
Enabling this feature will allow the storage to increase once the specified threshold is exceeded.

Maximum storage threshold [Info](#)  
Charges will apply when your database autoscales to the specified threshold

40 GiB  
Minimum: 21 GiB, Maximum: 16,384 GiB

Tik ==> lazim olursa 20 den 40 a arttir demektir

**Availability & durability**

Multi-AZ deployment [Info](#)

Create a standby instance (recommended for production usage)  
Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.

Do not create a standby instance

Deprem vs olursa baska bir yerde kur anlamindadir (dogal afet vs)

### Connectivity

**Virtual private cloud (VPC) [Info](#)**  
VPC that defines the virtual networking environment for this DB instance.

aws\_capstone-VPC (vpc-045d76405de1b8cb5) ▾

Only VPCs with a corresponding DB subnet group are listed.

**Subnet group [Info](#)**  
DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

aws\_capstone\_rds\_subnet\_group ▾

**Public access [Info](#)**

Yes  
Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

No  
RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

**VPC security group**  
Choose a VPC security group to allow access to your database. Ensure that the security group rules allow the appropriate incoming traffic.

Choose existing  
Choose existing VPC security groups

Create new  
Create new VPC security group

**Existing VPC security groups**

Choose VPC security groups ▾

aws\_capstone\_RDS\_Sec\_Group X

**Availability Zone [Info](#)**

No preference ▾

**Additional configuration**

### Database authentication

**Database authentication options [Info](#)**

Password authentication  
Authenticates using database passwords.

Password and IAM database authentication  
Authenticates using the database password and user credentials through AWS IAM users and roles.

Password and Kerberos authentication  
Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

### ▼ Additional configuration

Database options, backup enabled, backtrack disabled, Enhanced Monitoring disabled, maintenance, CloudWatch Logs, delete protection disabled

#### Database options

**Initial database name [Info](#)**

database1

If you do not specify a database name, Amazon RDS does not create a database.

**DB parameter group [Info](#)**

default.mysql8.0

**Option group [Info](#)**

default:mysql-8-0

#### Backup

Enable automated backups  
Creates a point-in-time snapshot of your database

**⚠ Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to details here.**

**Backup retention period [Info](#)**  
Choose the number of days that RDS should retain automatic backups for this instance.

7 days

**Backup window** [Info](#)  
 Select the period for which you want automated backups of the database to be created by Amazon RDS.

**Select window**  
 No preference

Start time  :  UTC Duration  hours

Copy tags to snapshots

**Monitoring**

Enable Enhanced monitoring  
 Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU

**Log exports**  
 Select the log types to publish to Amazon CloudWatch Logs

Audit log  
 Error log  
 General log  
 Slow query log

**IAM role**  
 The following service-linked role is used for publishing logs to CloudWatch Logs.  
 RDS service-linked role

i Ensure that general, slow query, and audit logs are turned on. Error logs are enabled by default. [Learn more](#)

**Maintenance**  
[Auto minor version upgrade](#) [Info](#)

**Enable auto minor version upgrade**  
 Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.

**Maintenance window** [Info](#)  
 Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.

**Select window**  
 No preference

Start day  Start time  :  UTC Duration  hours

**Deletion protection**

**Enable deletion protection**  
 Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.

**Asagidakini işaretlersek silmeye izin vermez**

**Deletion protection**

**Enable deletion protection**  
 Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.

[Create database](#)

**RDS olusurken step4 e yani S3 sayfasina gecelim**

**2 tane bucket olusturacagiz**  
**Failover icin**  
**Blok icin**

[Create bucket](#)

```

1. Blog Website's S3 Bucket

- Click Create Bucket
```
Bucket Name : awscapstones3<YOUR NAME>blog
Region       : N.Virginia
Block all public access : Unchecked
Other Settings are keep them as are
create bucket
```

```

**General configuration**

Bucket name  
awscapstones3hamidblog  
Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region  
US East (N. Virginia) us-east-1

Copy settings from existing bucket - *optional*  
Only the bucket settings in the following configuration are copied.  
[Choose bucket](#)

**Block Public Access settings for this bucket**

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

**Block all public access**  
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- Block public access to buckets and objects granted through new access control lists (ACLs)**  
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- Block public access to buckets and objects granted through any access control lists (ACLs)**  
S3 will ignore all ACLs that grant public access to buckets and objects.
- Block public access to buckets and objects granted through new public bucket or access point policies**  
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- Block public and cross-account access to buckets and objects through any public bucket or access point policies**  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

**⚠ Turning off block all public access might result in this bucket and the objects within becoming public**  
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

I acknowledge that the current settings might result in this bucket and the objects within becoming public.

[Create bucket](#)

```

2. S3 Bucket for failover scenario

- Click Create Bucket
```
Bucket Name : www.<YOUR DNS NAME>
Region       : N.Virginia
Block all public access : Unchecked
Please keep other settings as are
```

```

## Create bucket Info

Buckets are containers for data stored in S3. [Learn more](#)

### General configuration

#### Bucket name

www.abdulhamidgokce.com

Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

#### AWS Region

US East (N. Virginia) us-east-1

#### Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

#### Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

#### Block public access to buckets and objects granted through new access control lists (ACLs)

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

#### Block public access to buckets and objects granted through any access control lists (ACLs)

S3 will ignore all ACLs that grant public access to buckets and objects.

#### Block public access to buckets and objects granted through new public bucket or access point policies

S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

#### Block public and cross-account access to buckets and objects through any public bucket or access point policies

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

**⚠ Turning off block all public access might result in this bucket and the objects within becoming public**

AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

I acknowledge that the current settings might result in this bucket and the objects within becoming public.

[Create bucket](#)

Amazon S3 > www.abdulhamidgokce.com

## www.abdulhamidgokce.com Info

Objects

[Properties](#)

Permissions

Metrics

Management

Access Points

### Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

[Edit](#)

Static website hosting

Disabled

## Edit static website hosting Info

**Static website hosting**  
Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting  
 Disable  
 Enable

Hosting type  
 Host a static website  
    Use the bucket endpoint as the web address. [Learn more](#)  
 Redirect requests for an object  
    Redirect requests to another bucket or domain. [Learn more](#)

ⓘ For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document  
Specify the home or default page of the website.

Error document - *optional*  
This is returned when an error occurs.

Redirection rules - *optional*  
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

Anı bucket'a iki dosya yükleyeceğiz



## Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folder**.

Files and folders (2 Total, 88.1 KB)						
All files and folders in this table will be uploaded.						
	Name	Folder	Type	Size		
<input type="checkbox"/>	index.html	-	text/html	199.0 B	< 1 >	
<input type="checkbox"/>	sorry.jpg	-	image/jpeg	87.9 KB		

**Destination**

Destination  
`s3://www.abdulhamidgokce.com`

▶ **Destination details**  
Bucket settings that impact new objects stored in the specified destination.

▼ Permissions  
Grant public access and access to other AWS accounts.

Access control list (ACL)  
Grant basic read/write permissions to other AWS accounts. [Learn more](#)

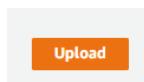
ⓘ AWS recommends using S3 bucket policies or IAM policies for access control. [Learn more](#)

Access control list (ACL)  
 Choose from predefined ACLs  
 Specify individual ACL permissions

Predefined ACLs  
 Private (recommended)  
Only the object owner will have read and write access.  
 Grant public-read access  
Anyone in the world will be able to access the specified objects. The object owner will have read and write access. [Learn more](#)

**⚠️ Granting public-read access is not recommended**  
Anyone in the world will be able to access the specified objects. [Learn more](#)

I understand the risk of granting public-read access to the specified objects.



Aynı buckete devam

Static website hosting  
Use this bucket to host a website or redirect requests. [Learn more](#)

[Edit](#)

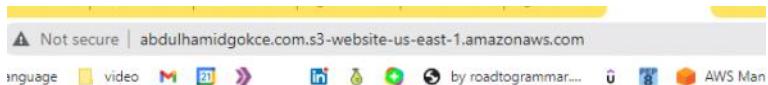
Static website hosting  
Enabled

Hosting type  
Bucket hosting

Bucket website endpoint  
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://www.abdulhamidgokce.com.s3-website-us-east-1.amazonaws.com>

Adresimiz olusmus ve hata mesaji asagidadir



## FAILOVER SCENARIO



```
Step 5: Copy files downloaded or cloned from `Clarusway_project` repo on Github
~ ## Step 6: Prepare your Github repository
- Create private project repository on your Github and clone it on your local. Copy all files and folders which are downloaded from clarusway repo under this folder. Commit and push them on your private Git hub Repo.
```

## Step 5-6 yi ders basinda hazirladik

### Developer notu

```
7 ~ - Users credentials and blog contents are going to be kept on RDS database. To connect ECs to RDS, following
8 | a. Database name - "NAME" variable |
9 | b. Database endpoint - "HOST" variables
10 | c. Port - "PORT"
11 | d. PASSWORD variable must be written on "/src/.env" file not to be exposed with settings file
```

### Dosyaya gelelim



```
DATAASES = {
 'default': {
 'ENGINE': 'django.db.backends.mysql',
 'NAME': '', # database name in RDS is written here
 'USER': '', # database master username in RDS is written here
 'PASSWORD': config('PASSWORD'),
 'HOST': '', # database endpoint is written here
 'PORT': '' # database port is written here
 }
}
```

### Rds in endpointini alalim

RDS > Databases > aws-capstone-rds

## aws-capstone-rds

[Modify](#) [Actions ▾](#)

Summary			
DB identifier aws-capstone-rds	CPU <div style="width: 4.48%;">4.48%</div>	Status <span style="color: green;">Available</span>	Class db.t2.micro
Role Instance	Current activity <div style="width: 0%;">0 Connections</div>	Engine MySQL Community	Region & AZ us-east-1a

[Connectivity & security](#) | [Monitoring](#) | [Logs & events](#) | [Configuration](#) | [Maintenance & backups](#)

Tags

Connectivity & security		
Endpoint & port	Networking	Security
Endpoint aws-capstone-rds.cl01pw6shkce.us-east-1.rds.amazonaws.com	Availability zone us-east-1a	VPC security groups aws_capstone_RDS_Sec_Group (sg-03e4bece624e03db2) (active)
Port 3306	VPC aws_capstone-VPC (vpc-045d76405de1b8cb5)	Public accessibility No
	Subnet group aws_capstone_rds_subnet_group	Certificate authority rds-ca-2019
	Subnets subnet-0307e833dcfeb091a subnet-03f008d897753ce83	Certificate authority date August 22, 2024, 08:08 (UTC±8:08)

### Endpoint & port

Endpoint  
aws-capstone-rds.cl01pw6shkce.us-east-1.rds.amazonaws.com

```

81
82 # Database
83 # https://docs.djangoproject.com/en/3.1/ref/settings/#databases
84
85 DATABASES = {
86 'default': [
87 {
88 'ENGINE': 'django.db.backends.mysql',
89 'NAME': 'database1', # database name in RDS is written here
90 'USER': 'admin', # database master username in RDS is written here
91 'PASSWORD': config('PASSWORD'),
92 'HOST': 'aws-capstone-rds.cl01pw6shkce.us-east-1.rds.amazonaws.com', # database endpoint
93 'PORT': '3306' # database port is written here
94 }
95 }
96

```

File Edit Selection View Go Run Terminal Help .env - My-AWS-Capstone-Project - Visual Studio Code

EXPLORER ...

MY-AWS-CAPSTONE-PROJ... src > .env

- S3\_Static\_Website
- src
  - blog
  - cblog
    - \_init\_.py
    - asgi.py
    - settings.py 1, U
    - storages.py
    - urls.py
    - wsgi.py
  - media\_root
  - static
  - templates
  - users
- .env U
- manage.py U
- capstone.jpg U
- developer notes.... U

... Readme\_solution\_student.md U settings.py 1, U .env U ●

E-PROJ... src > .env

```
1 SECRET_KEY=i2^$(%im!!)@lwenn9nk40%yo#ay-lqs_#3p=v(^7-1-%ck$y@
2 PASSWORD=<your DB password without any quotes>
3
```

awscapstones3hamidblog US East (N. Virginia) Objects public

Kopyala

```
145
146 AWS_STORAGE_BUCKET_NAME = '' # please enter your s3 bucket name
147 AWS_S3_CUSTOM_DOMAIN = '%s.s3.amazonaws.com' % AWS_STORAGE_BUCKET_NAME
148 AWS_S3_REGION_NAME = "" # please enter your s3 region
149 AWS_DEFAULT_ACL = 'public-read'
150
```

```
145
146 AWS_STORAGE_BUCKET_NAME = 'awscapstones3hamidblog' # please enter your s3 bucket name
147 AWS_S3_CUSTOM_DOMAIN = '%s.s3.amazonaws.com' % AWS_STORAGE_BUCKET_NAME
148 AWS_S3_REGION_NAME = "us-east-1" # please enter your s3 region
149 AWS_DEFAULT_ACL = 'public-read'
150
151 AWS_LOCATION = 'static'
```

User data kismina gidelim

The screenshot shows a Visual Studio Code interface. On the left is the Explorer sidebar with a tree view of files and folders. The main area is a terminal window displaying a shell script named `userdata.sh`. The script contains commands to update the system, install git and python3, clone a GitHub repository, and run several Python manage scripts. The file is numbered from 1 to 16.

```
userdata.sh
1 #!/bin/bash
2 apt-get update -y
3 apt-get install git -y
4 apt-get install python3 -y
5 cd /home/ubuntu/
6 TOKEN=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
7 git clone https://$TOKEN@<YOUR GITHUB REPO URL>
8 cd /home/ubuntu/<YOUR GITHUB REPO NAME>/src
9 apt install python3-pip -y
10 pip3 install -r requirements.txt
11 cd /home/ubuntu/<YOUR GITHUB REPO NAME>/src
12 python3 manage.py collectstatic --noinput
13 python3 manage.py makemigrations
14 python3 manage.py migrate
15 python3 manage.py runserver 0.0.0.0:80
16
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/hamidgokce/My-AWS-Capstone-Project.git
git branch -M main
git push -u origin main
```

## User data daki degisiklikler

The screenshot shows a terminal window with the same `userdata.sh` script as before, but with a specific line highlighted. Line 7 now includes a placeholder token `$TOKEN` in the GitHub URL.

```
userdata.sh
1 #!/bin/bash
2 apt-get update -y
3 apt-get install git -y
4 apt-get install python3 -y
5 cd /home/ubuntu/
6 TOKEN='ghp_9CgoXvUeLrI9EjleXVt9mB5w1CTsHJ0l212o'
7 git clone https://$TOKEN@github.com/hamidgokce/My-AWS-Capstone-Project.git
8 cd /home/ubuntu/My-AWS-Capstone-Project
9 apt install python3-pip -y
10 apt-get install python3.7-dev libmysqlclient-dev -y
11 pip3 install -r requirements.txt
12 cd /home/ubuntu/My-AWS-Capstone-Project/src
13 python3 manage.py collectstatic --noinput
14 python3 manage.py makemigrations
15 python3 manage.py migrate
16 python3 manage.py runserver 0.0.0.0:80
```

Yapilan degisikleri kaydedelim ve repomuzu gonderelim

...or create a new repository on the command line

```
echo "# My-AWS-Capstone-Project" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/hamidgokce/My-AWS-Capstone-Project.git
git push -u origin main
```

Bilgileri Yöneticisi You are viewing Vir

im Masası Giriş Kimlik bilgilerinizi yönetin

Web siteleri, bağlı uygulamalar ve ağaclar için kaydedilmiş oturum açma bilgilerini görüntüleyin ve silin.

 Web Kimlik Bilgileri  Windows Kimlik Bilgileri

[Kimlik Bilgilerini Yedekle](#) [Kimlik Bilgilerini Geri Yükle](#)

Windows Kimlik Bilgileri	Windows kimlik bilgisi ekle
Windows kimlik bilgileri yok.	
Sertifika Tabanlı Kimlik Bilgileri	Sertifika tabanlı kimlik bilgisi ekle
Sertifika yok.	
Genel Kimlik Bilgileri	Genel kimlik bilgisi ekle
DriveFS_113068168833403452836	Değiştirme: Bugün
vscodenvscode.github-authentication/github.auth	Değiştirme: 21.12.2020
DriveFS_dmluY2Vuem9AY2xhcnVzdF5LmNvbQ	Değiştirme: 26.08.2020
githttps://github.com	Değiştirme: Bugün
https://index.docker.io/v1/	Değiştirme: 11.11.2020
MicrosoftAccountUser=vnczait.17@gmail.com	Değiştirme: Bugün
MicrosoftOffice16_DataLive:cid=f24c507cef9b9ed1	Değiştirme: 20.08.2021
OneDrive Cached Credential	Değiştirme: Bugün
virtualapp/didlogical	Değiştirme: 11.08.2021
SSO_POP_Device	Değiştirme: Bugün
SSO_POP_User:User=vnczait.17@gmail.com	Değiştirme: Bugün
XboxLive	Değiştirme: Bugün

Genel kimlik bilgisini düzenle

Yazdığınız kullanıcı adı ve parolanın konuma erişmek için kullanılabileceğinden emin olun.

Internet veya ağaç adresi: githttps://github.com

Kullanıcı adı:

Parola:

Token i parola kısmasına yapıştırırsak token ile push isteme sorunu cozulur

Step 9

```

✓ ## Step 9: Create NAT Instance in Public Subnet
To launch NAT instance, go to the EC2 console and click the create button.

✓ ````text
 write "NAT" into the filter box
 select NAT Instance `amzn-ami-vpc-nat-hvm-2018.03.0.20181116-x86_64-ebs`
 Instance Type: t2.micro
 Configure Instance Details
 - Network : aws_capstone_VPC
 - Subnet : aws_capstone-public-subnet-1A (Please select one of your Public Subnets)
 - Other features keep them as are
 Storage ---> Keep it as is
 Tags: Key: Name Value: AWS Capstone NAT Instance
 Configure Security Group
 - Select an existing security group: aws_capstone_NAT_Sec_Group
 Review and select our own pem key
````

!!!!IMPORTANT!!!
- select newly created NAT instance and enable stop source/destination check
- go to private route table and write a rule
✓ ````

Destination : 0.0.0.0/0
Target      : instance ---> Select NAT Instance
Save
````
```

## Nat instance olusturacagiz

The screenshot shows the AWS Lambda console with the 'Create Function' wizard. Step 1 is titled 'Choose an Amazon Machine Image (AMI)'. A search bar at the top contains the text 'nat'. On the left, a sidebar lists categories: 'Quick Start (0)', 'My AMIs (0)', 'AWS Marketplace (50)', 'Community AMIs (583)', and a checked 'Free tier only' checkbox. The main area displays search results:

- No results were found for "nat" in the quick start catalog.
- The following results for "nat" were found in other catalogs:
  - 50 results in AWS Marketplace
  - 583 results in Community AMIs

- [583 results in Community AMIs](#)  
Community AMIs are AMIs that are shared by the general AWS community

The screenshot shows the 'Select' screen for the 'amzn-ami-vpc-nat-hvm-2018.03.0.20181116-x86\_64-ebs' AMI. The AMI details are listed: 'amzn-ami-vpc-nat-hvm-2018.03.0.20181116-x86\_64-ebs - ami-00a9d4a05375b2763', 'Amazon Linux AMI 2018.03.0.20181116 x86\_64 VPC HVM ebs', 'Root device type: ebs', 'Virtualization type: hvm', and 'ENAv Enabled: Yes'. The 'Select' button is highlighted in blue.

The screenshot shows the configuration of a new Lambda function. It includes fields for 'Function name' (lambda-1), 'Runtime' (Node.js 12.x), 'Memory size' (128 MB), and 'Timeout' (3 seconds). Below these, there are sections for 'Environment variables' and 'VPC settings'. Under 'VPC settings', a dropdown menu shows 'vpc-282cb155 (default)' and 'vpc-045d76405de1b8cb5 | aws\_capstone-VPC'.

## Subnet public lerdan biri

|           |   |                                                                              |                   |
|-----------|---|------------------------------------------------------------------------------|-------------------|
| Subnet    | i | subnet-0c4294547cef4dc9f   aws_capstone-public-s                             | Create new subnet |
|           |   | <b>subnet-0c4294547cef4dc9f   aws_capstone-public-subnet-1A   us-east-1a</b> |                   |
| Public IP | i | subnet-03f008d897753ce83   aws_capstone-private-subnet-1A   us-east-1a       |                   |
|           |   | subnet-012dd1aa9971837b2   aws_capstone-public-subnet-1B   us-east-1b        |                   |
|           |   | subnet-0307e633dcfe091a   aws_capstone-private-subnet-1B   us-east-1b        |                   |

## Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.

|                                   |                                                        |              |                          |                                     |
|-----------------------------------|--------------------------------------------------------|--------------|--------------------------|-------------------------------------|
| <b>Key</b>                        | (128 characters maximum)                               | <b>Value</b> | (256 characters maximum) | <b>Insta</b>                        |
| <input type="text" value="Name"/> | <input type="text" value="AWS Capstone NAT Instance"/> |              |                          | <input checked="" type="checkbox"/> |
| <b>Add another tag</b>            | (Up to 50 tags maximum)                                |              |                          |                                     |

## Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can also view existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group:  Create a new security group

- Select an existing security group

| Security Group ID    | Name                       | Description                                                                    |
|----------------------|----------------------------|--------------------------------------------------------------------------------|
| sg-01ce22fa7616129b6 | aws_capstone_ALB_Sec_Group | ALB Security Group allows traffic HTTP and HTTPS ports from anywhere           |
| sg-004d61b887ed1f453 | aws_capstone_EC2_Sec_Group | EC2 Security Groups only allows traffic coming from aws_capstone_ALB_Sec_Group |
| sg-0ee2dcf21de38f596 | aws_capstone_NAT_Sec_Group | ALB Security Group allows traffic HTTP and HTTPS and SSH ports from anywhere   |
| sg-03e4bec6624e03db2 | aws_capstone_RDS_Sec_Group | EC2 Security Groups only allows traffic coming from aws_capstone_EC2_Sec_Group |
| sg-0e447fd61b17c3253 | default                    | default VPC security group                                                     |

4 | Page

Inbound rules for sg-0ee2dcf21de38f596 (Selected security groups: sg-0ee2dcf21de38f596)

| Type  | Protocol | Port Range | Source    |
|-------|----------|------------|-----------|
| HTTP  | TCP      | 80         | 0.0.0.0/0 |
| SSH   | TCP      | 22         | 0.0.0.0/0 |
| HTTPS | TCP      | 443        | 0.0.0.0/0 |

Nat instance den sonra source destination check durdurulmamız lazımdır (doğrulama yapmasın dive)

Private route table da da ayar yapmak lazımdır.

The screenshot shows the AWS Lambda Instances page. The left sidebar lists instances: 'AWS Capstone NAT Instance' (selected), 'AWS Lambda - Lambda@Edge', and 'AWS Lambda - Lambda@Edge'. The main table has columns: Name, Instance ID, and Actions. The 'AWS Capstone NAT Instance' row shows 'i-03a66499fe1ba6d59' and a green checkmark icon in the Actions column. A context menu is open over this row, listing actions: Attach network interface, Detach network interface, Change source/destination check, Disassociate Elastic IP address, and Manage IP addresses. The 'Actions' dropdown in the top right shows 'Actions ▾' and 'Launch Instances'. The status bar indicates '1 / 2 Status'.

EC2 > Instances > i-00dc70aeb44ea37ea > Change source / destination check

**Source / destination check** [Info](#)

Each EC2 instance performs source and destination checks by default. The instance must be the source or destination of all the traffic it sends and receives.

Instance ID  
 i-00dc70aeb44ea37ea (AWS Capstone NAT Instance)

Network interface [Info](#)  
 eni-07ab0b437109c8f18 (AWS Capstone NAT Instance)

Source / destination checking [Info](#)  
 Stop

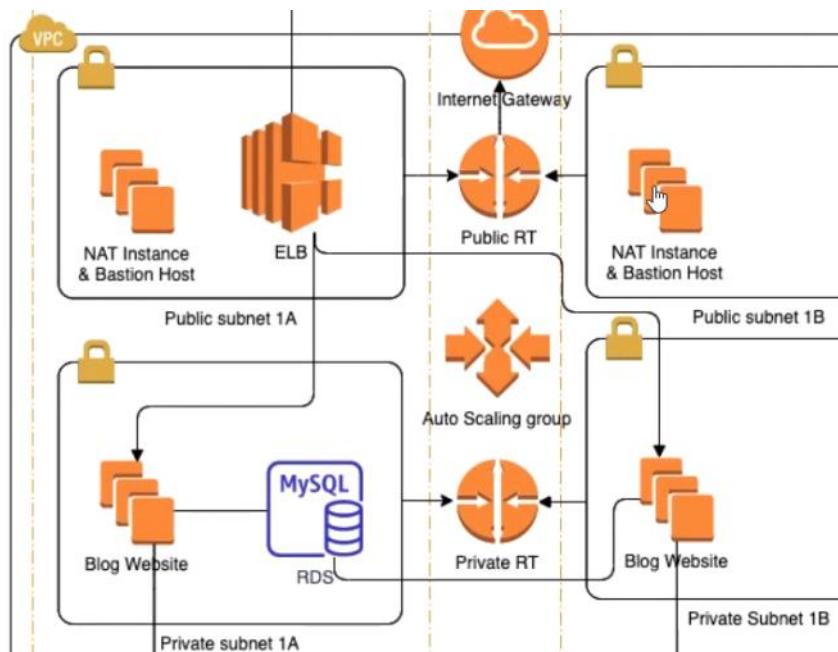
If this is a NAT instance, you must stop source / destination checking. A NAT instance must be able to send and receive traffic when the source or destination is not itself.

AWS CLI Command  

```
aws ec2 modify-instance-attribute --instance-id=i-00dc70aeb44ea37ea --no-source-dest-check
```

## Vpc ye private route table a gidelim

Ihtiyaclar nat instance uzerinden gorulsun dedik



The screenshot shows the AWS VPC Route Tables page. At the top, there's a table with two rows:

|                          | aws_capstone-private-RT | rtb-09671f0d60de4b838 | 2 subnets | - |
|--------------------------|-------------------------|-----------------------|-----------|---|
| <input type="checkbox"/> | clarus-public-rt        | rtb-0dcee68b62b24c693 | 3 subnets | - |

Below this is a large empty white area. At the bottom of the page, there's a navigation bar with tabs: Details, Routes (which is selected), Subnet associations, Edge associations, Route propagation, and Tags.

Under the Routes tab, there's a sub-section titled "Routes (2)". It includes a search bar labeled "Filter routes" and a dropdown menu set to "Both". Below this is a table with two rows:

| Destination  | Target                 | Status | Propagated |
|--------------|------------------------|--------|------------|
| 90.90.0.0/16 | local                  | Active | No         |
| pl-63a5400a  | vpce-0157d47f79a5b8717 | Active | No         |

Edit

The screenshot shows an "Edit" dialog for a route target. On the left, there's a search bar with the placeholder "Search" and a list of targets:

- Carrier Gateway
- Egress Only Internet Gateway
- Gateway Load Balancer Endpoint
- Instance (selected)
- Internet Gateway
- local
- NAT Gateway
- Network Interface
- Outpost Local Gateway
- Peering Connection
- Transit Gateway
- Virtual Private Gateway

On the right, there's a "Status" field which is currently empty.

## Edit routes

| Edit routes |                        |                                            |
|-------------|------------------------|--------------------------------------------|
| Destination | Target                 | Status                                     |
| pl-63a540a  | vpce-0157d47f79a5b8717 | <input checked="" type="checkbox"/> Active |
| Propagated  |                        |                                            |
| No          |                        |                                            |

| Edit routes  |                                                                     |                                            |
|--------------|---------------------------------------------------------------------|--------------------------------------------|
| Destination  | Target                                                              | Status                                     |
| 90.90.0.0/16 | <input type="text" value="local"/> <input type="button" value="X"/> | <input checked="" type="checkbox"/> Active |
| Propagated   |                                                                     |                                            |
| No           |                                                                     |                                            |

| Edit routes                                                           |                                                                                                              |        |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------|
| Destination                                                           | Target                                                                                                       | Status |
| <input type="text" value="0.0.0.0"/> <input type="button" value="X"/> | <input type="text" value="i-00dc70ae44ea37ea (AWS Capstone NAT Instance)"/> <input type="button" value="X"/> | -      |
| Propagated                                                            |                                                                                                              |        |
| No                                                                    |                                                                                                              |        |
| <input type="button" value="Remove"/>                                 |                                                                                                              |        |
| <input type="button" value="Add route"/>                              |                                                                                                              |        |



VPC > Route tables > rtb-09671f0d60de4b838

### rtb-09671f0d60de4b838 / aws\_capstone-private-RT

Actions ▾

i You can now check network connectivity with Reachability Analyzer

| Details                      |                                                                       | Info     |                                           |
|------------------------------|-----------------------------------------------------------------------|----------|-------------------------------------------|
| Route table ID               | <input type="text" value="rtb-09671f0d60de4b838"/>                    | Main     | <input checked="" type="checkbox"/> Yes   |
| VPC                          | <input type="text" value="vpc-045d76405de1b8cb5   aws_capstone-VPC"/> | Owner ID | <input type="text" value="000667629202"/> |
| Explicit subnet associations | <input type="text" value="2 subnets"/>                                |          |                                           |
| Edge associations            | <input type="text" value="-"/>                                        |          |                                           |

Routes
Subnet associations
Edge associations
Route propagation
Tags

| Routes (3)                                                                     |                                                           |                                            |                                            |  |  |
|--------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------|--------------------------------------------|--|--|
| <input type="text" value="Filter routes"/> <input type="button" value="Both"/> |                                                           |                                            | <input type="button" value="Edit routes"/> |  |  |
| Destination                                                                    | Target                                                    | Status                                     | Propagated                                 |  |  |
| 90.90.0.0/16                                                                   | local                                                     | <input checked="" type="checkbox"/> Active | No                                         |  |  |
| 0.0.0.0/0                                                                      | eni-07ab0b437109c8f18 <input type="button" value="Edit"/> | <input checked="" type="checkbox"/> Active | No                                         |  |  |
| pl-63a540a                                                                     | vpce-0157d47f79a5b8717                                    | <input checked="" type="checkbox"/> Active | No                                         |  |  |

ALB icin launch template gerekmektedir. Ama bazi roller hazırlamak lazim. Bu sebeple IAM konsoluna gecelim  
EC2 larin s3 bucketler le konusmasi lazim

```
Step 10: Create Launch Template and IAM role for it
Go to the IAM role console click role on the right hand menu than create role
```text
trusted entity : EC2 as ---> click Next:Permission
Policy : AmazonS3FullAccess policy
Tags : No tags
Role Name : aws_capstone_EC2_S3_Full_Access
Description : For EC2, S3 Full Access Role
```

```

IAM > Roles

**Roles (5) Info**  
An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

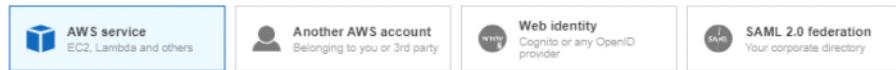
**Create role**

| <input type="checkbox"/> | Role name                                                                             | Trusted entities                                  | Last act...    |
|--------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------|----------------|
| <input type="checkbox"/> | AWSServiceRoleForRDS                                                                  | AWS Service: rds (Service-Linked Role)            | 33 minutes ago |
| <input type="checkbox"/> | AWSServiceRoleForSupport                                                              | AWS Service: support (Service-Linked Role)        | -              |
| <input type="checkbox"/> | AWSServiceRoleForTrustedAdvisor<br><span style="color:red;">✖ Deletion failed.</span> | AWS Service: trustedadvisor (Service-Linked Role) | -              |
| <input type="checkbox"/> | EC2-S3-Full-Access                                                                    | AWS Service: ec2                                  | -              |
| <input type="checkbox"/> | sqs-poller-role                                                                       | AWS Service: lambda                               | 2 days ago     |

## Create role

1 2 3 4

### Select type of trusted entity



Allows AWS services to perform actions on your behalf. [Learn more](#)

### Choose a use case

#### Common use cases

##### EC2

Allows EC2 instances to call AWS services on your behalf.

##### Lambda

Allows Lambda functions to call AWS services on your behalf.

#### Or select a service to view its use cases

|                               |                        |                            |                    |                 |
|-------------------------------|------------------------|----------------------------|--------------------|-----------------|
| API Gateway                   | CodeBuild              | EMR Containers             | IoT SiteWise       | RDS             |
| AWS Backup                    | CodeDeploy             | ElasticCache               | IoT Things Graph   | Redshift        |
| AWS Chatbot                   | CodeGuru               | Elastic Beanstalk          | KMS                | Rekognition     |
| AWS Marketplace               | CodeStar Notifications | Elastic Container Registry | Kinesis            | RoboMaker       |
| AWS Support                   | Comprehend             | Elastic Container Service  | Lake Formation     | S3              |
| Amplify                       | Config                 | Elastic Transcoder         | Lambda             | SMS             |
| AppStream 2.0                 | Connect                | Elastic Load Balancing     | Lex                | SNS             |
| AppSync                       | DMS                    | EventBridge                | License Manager    | SWF             |
| Application Auto Scaling      | Data Lifecycle Manager | Forecast                   | MQ                 | SageMaker       |
| Application Discovery Service | Data Pipeline          | GameLift                   | Machine Learning   | Security Hub    |
| Batch                         | DataBrew               | Global Accelerator         | Macie              | Service Catalog |
| Braket                        | DataSync               | Glue                       | Managed Blockchain | Step Functions  |
| Budgets                       | DeepLens               | Greengrass                 | MediaConvert       | Storage Gateway |
| Certificate Manager           | Directory Service      | GuardDuty                  | Migration Hub      | Systems Manager |
| Chime                         | DynamoDB               | Health Organizational View | Network Firewall   | Textract        |
| CloudFormation                | EC2                    | Honeycode                  | OpsWorks           | Transfer        |
| CloudHSM                      | EC2 - Fleet            | IAM Access Analyzer        | Personalize        | Trusted Advisor |
| CloudTrail                    | EC2 Auto Scaling       | Incident Manager           | Purchase Orders    | VPC             |

\* Required

Cancel Next: Permissions

## Create role

### Attach permissions policies

Choose one or more policies to attach to your new role.

Create policy

Filter policies ▾

|                                     | Policy name ▾           |
|-------------------------------------|-------------------------|
| <input type="checkbox"/>            | AmazonDMSRedshiftS3Role |
| <input checked="" type="checkbox"/> | AmazonS3FullAccess      |

## Create role

1 2 3 4

### Review

Provide the required information below and review this role before you create it.

Role name\*

Use alphanumeric and '+-, @-' characters. Maximum 64 characters.

Role description

Maximum 1000 characters. Use alphanumeric and '+-, @-' characters.

Trusted entities AWS service: ec2.amazonaws.com

Policies  AmazonS3FullAccess 

Permissions boundary Permissions boundary is not set

No tags were added.

Role description

### New launch template

[Create launch template](#)

To create Launch Template, go to the EC2 console and select `Launch Template` on the left hand menu. Tab the Create Launch Template button.

```
```bash
Launch template name      : aws_capstone_launch_template
Template version description : Blog Web Page version 1
Amazon machine image (AMI)   : Ubuntu 18.04
Instance Type              : t2.micro
Key Pair                   : mykey.pem
Network Platform           : VPC
Security Groups            : aws_capstone_EC2_sec_group
Storage (Volumes)          : keep it as is
Resource tags               : Key: Name  Value: aws_capstone_web_server
Advance Details:
  - IAM instance profile    : aws_capstone_EC2_S3_Full_Access
  - Termination protection   : Enable
  - User Data
#!/bin/bash
apt-get update -y
apt-get install git -y
apt-get install python3 -y
cd /home/ubuntu/
TOKEN="XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
git clone https://$TOKEN@<YOUR PRIVATE REPO URL>
cd /home/ubuntu/<YOUR PRIVATE REPO NAME>
apt install python3-pip -y
apt-get install python3.7-dev default-libmysqlclient-dev -y
pip3 install -r requirements.txt
cd /home/ubuntu/<YOUR PRIVATE REPO NAME>/src
python3 manage.py collectstatic --noinput
python3 manage.py makemigrations
python3 manage.py migrate
python3 manage.py runserver 0.0.0.0:80
```
- create launch template
```

## Create launch template

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

### Launch template name and description

Launch template name - required

Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '!', '@'.

Template version description

Max 255 chars

Auto Scaling guidance [Info](#)

Select this if you intend to use this template with EC2 Auto Scaling

Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

► [Template tags](#)

► [Source template](#)

### ▼ Amazon machine image (AMI) [Info](#)

AMI

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type  
ami-0747bdcabd34c712a  
Catalog: Quick Start virtualization: hvm architecture: 64-bit (x86)

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type  
ami-0747bdcabd34c712a  
Catalog: Quick Start virtualization: hvm architecture: 64-bit (x86)

### ▼ Instance type [Info](#)

Instance type

Family: t2 1 vCPU 1 GiB Memory  
On-Demand Linux pricing: 0.0116 USD per Hour  
On-Demand Windows pricing: 0.0162 USD per Hour

Free tier eligible

▼

### ▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before launching the instance.

Key pair name

[Create](#)

### ▼ Network settings

Networking platform [Info](#)

Virtual Private Cloud (VPC)

Launch into a virtual network in your own logically isolated area within the AWS Cloud

EC2-Classic

Launch into a single flat network shared with other customers.

Security groups

[Select security groups](#)

aws\_capstone\_EC2\_Sec\_Group sg-004d61b867ed1f453

aws\_capstone\_EC2\_Sec\_Group  
VPC: vpc-045d76405de1b8cb5

▼ Resource tags [Info](#)

| Key <a href="#">Info</a>                            | Value <a href="#">Info</a>                                    | Resource types <a href="#">Info</a>                                                    |
|-----------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <input type="text" value="Name"/> <a href="#">X</a> | <input type="text" value="aws_capstone_w"/> <a href="#">X</a> | <input type="text" value="Select resource types"/> <a href="#">▼</a> <a href="#">X</a> |
| <a href="#">Instances</a> <a href="#">X</a>         |                                                               |                                                                                        |

[Add tag](#)

49 remaining (Up to 50 tags maximum)

Purchasing option [Info](#)

Request Spot Instances  
Request Spot Instances at the Spot price, capped at the On-Demand price

IAM instance profile [Info](#)

|                                                                                                                                                              |                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <input type="text" value="Don't include in launch template"/> <a href="#">▲</a>                                                                              | <a href="#">Create new IAM profile</a> <a href="#">✖</a> |
| <input type="text" value="Q,  "/>                                                                                                                            |                                                          |
| Specify a custom value...                                                                                                                                    |                                                          |
| <input type="text" value="Don't include in launch template"/> <a href="#">▼</a>                                                                              |                                                          |
| <input type="text" value="aws_capstone_EC2_S3_Full_Access"/> <a href="#">▼</a><br>arn:aws:iam::000667629202:instance-profile/aws_capstone_EC2_S3_Full_Access |                                                          |

▼ Advanced details [Info](#)

Purchasing option [Info](#)

Request Spot Instances  
Request Spot Instances at the Spot price, capped at the On-Demand price

IAM instance profile [Info](#)

|                                                                                |                                                          |
|--------------------------------------------------------------------------------|----------------------------------------------------------|
| <input type="text" value="aws_capstone_EC2_S3_Full_Access"/> <a href="#">▼</a> | <a href="#">Create new IAM profile</a> <a href="#">✖</a> |
|--------------------------------------------------------------------------------|----------------------------------------------------------|

Shutdown behavior [Info](#)

|                                                                                 |
|---------------------------------------------------------------------------------|
| <input type="text" value="Don't include in launch template"/> <a href="#">▼</a> |
|---------------------------------------------------------------------------------|

Stop - Hibernate behavior [Info](#)

|                                                                                 |
|---------------------------------------------------------------------------------|
| <input type="text" value="Don't include in launch template"/> <a href="#">▼</a> |
|---------------------------------------------------------------------------------|

Termination protection [Info](#)

|                                                                                 |
|---------------------------------------------------------------------------------|
| <input type="text" value="Don't include in launch template"/> <a href="#">▼</a> |
|---------------------------------------------------------------------------------|

Detailed CloudWatch monitoring [Info](#)

|                                                                                 |
|---------------------------------------------------------------------------------|
| <input type="text" value="Don't include in launch template"/> <a href="#">▼</a> |
|---------------------------------------------------------------------------------|

Additional charges apply

Elastic GPU [Info](#)

|                                                                                 |
|---------------------------------------------------------------------------------|
| <input type="text" value="Don't include in launch template"/> <a href="#">▼</a> |
|---------------------------------------------------------------------------------|

Additional charges apply

Elastic inference [Info](#)

Add Elastic Inference accelerators

Credit specification [Info](#)

|                                                                                 |
|---------------------------------------------------------------------------------|
| <input type="text" value="Don't include in launch template"/> <a href="#">▼</a> |
|---------------------------------------------------------------------------------|

Additional charges apply

Placement group name [Info](#)

|                                                                                 |
|---------------------------------------------------------------------------------|
| <input type="text" value="Don't include in launch template"/> <a href="#">▼</a> |
|---------------------------------------------------------------------------------|

[Create new placement group](#) [✖](#)

EBS-optimized instance [Info](#)

|                                                                                 |
|---------------------------------------------------------------------------------|
| <input type="text" value="Don't include in launch template"/> <a href="#">▼</a> |
|---------------------------------------------------------------------------------|

User data yi kopyalayalim

```

1 #!/bin/bash
2 apt-get update -y
3 apt-get install git -y
4 apt-get install python3 -y
5 cd /home/ubuntu/
6 TOKEN='ghp_9CgoXvUeLrI9EjleXt9mB5wlCTsHJ0l212o'
7 git clone https://$TOKEN@github.com/hamidgokce/My-AWS-Capstone-Project.git
8 cd /home/ubuntu/My-AWS-Capstone-Project
9 apt install python3-pip -y
10 apt-get install python3.7-dev libmysqlclient-dev -y
11 pip3 install -r requirements.txt
12 cd /home/ubuntu/My-AWS-Capstone-Project/src
13 python3 manage.py collectstatic --noinput
14 python3 manage.py makemigrations
15 python3 manage.py migrate
16 python3 manage.py runserver 0.0.0.0:80

```

### Yapistiralim

Launch template her ayaga kaldirdigi ec2 ya bu komutlari ekleyecek  
ve otomatik olarak calistiracak

User data [Info](#)

```

apt-get update -y
apt-get install git -y
apt-get install python3 -y
cd /home/ubuntu/
TOKEN='ghp_9CgoXvUeLrI9EjleXt9mB5wlCTsHJ0l212o'
git clone https://$TOKEN@github.com/hamidgokce/My-AWS-Capstone-Project.git
cd /home/ubuntu/My-AWS-Capstone-Project
apt install python3-pip -y
apt-get install python3.7-dev libmysqlclient-dev -y
pip3 install -r requirements.txt
cd /home/ubuntu/My-AWS-Capstone-Project/src
python3 manage.py collectstatic --noinput
python3 manage.py makemigrations
python3 manage.py migrate
python3 manage.py runserver 0.0.0.0:80

```

User data has already been base64 encoded

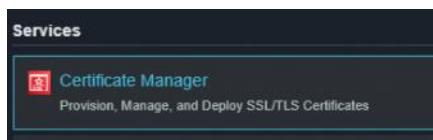


Http ye secure baglanti da sertifika kullanacagiz

```

Step 11: Create certification for secure connection
Go to the certification manager console and click `request a certificate` button.
Select `Request a public certificate`, then `request a certificate` ---> `*.` ---> DNS validation ---> No tag ---> Review ---> click confirm and request button. Then it takes a while to be activated.

```



Certificates

AWS Certificate Manager logs domain names from your certificates into public certificate transparency (CT) logs when renewing certificates. You can opt out of CT logging. [Learn more](#)

[Request a certificate](#) [Import a certificate](#) [Actions](#) [Manage certificate events](#)

|                          | Name | Domain name           | Additional names | Status | Type          | In use? | Renewal eligibility |
|--------------------------|------|-----------------------|------------------|--------|---------------|---------|---------------------|
| <input type="checkbox"/> | -    | *.abdulhamidgokce.com | -                | Issued | Amazon Issued | No      | Ineligible          |

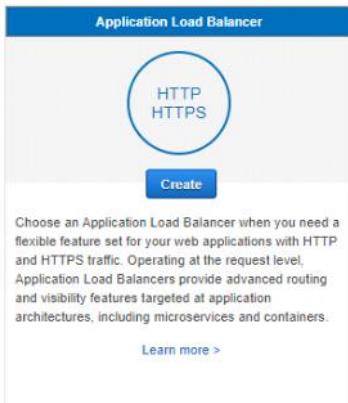
Status : issued konumdaysa sec baglanti yapabiliriz diyebiliriz

[Create Load Balancer](#)

```
Step 12: Create ALB and Target Group
Go to the Load Balancer section on the left hand side menu of EC2 console. Click
`create Load Balancer` button and select Application Load Balancer
```text
Name : awscapstoneALB
Schema : internet-facing
Listeners : HTTPS, HTTP
Availability Zones :
  - VPC : aws_capstone_VPC
  - Availability zones:
    1. aws_capstone-public-subnet-1A
    2. aws_capstone-public-subnet-1B
Step 2 - Configure Security Settings
Certificate type --> Choose a certificate from ACM (recommended)
  - Certificate name : "*.clarusway.us" certificate
  - Security policy : keep it as is
Step 3 - Configure Security Groups : aws_capstone_ALB_Sec_group
Step 4 - Configure Routing
  - Target group : New target group
  - Name : awscapstoneTargetGroup
  - Target Type : Instance
  - Protocol : HTTP
  - Port : 80
  - Protocol version : HTTP1
  - Health Check :
    - Protocol : HTTP
    - Path : /
    - Port : traffic port
    - Healthy threshold : 5
    - Unhealthy threshold : 2
    - Timeout : 5
    - Interval : 20
    - Success Code : 200
Step 5 - Register Targets
without register any target click Next: Review
...
- click create

To redirect traffic from HTTP to HTTPS, go to the ALB console and select Listeners
sub-section.

```text
select HTTP: 80 rule --> click edit
- Default action(s)
- Remove existing rule and create new rule which is
 - Redirect to HTTPS 443
 - Original host, path, query
 - 301 - permanently moved
```
Lets go ahead and look at our ALB DNS --> it going to say "it is not safe", however, it
will be fixed after settings of Route 53
```



Step 1: Configure Load Balancer

Basic Configuration

To configure your load balancer, provide a name, select a scheme, specify one or more listeners, and select a network. The default configuration is an Internet-facing load balancer in the selected network with a listener that receives HTTP traffic on port 80.

| | |
|-----------------|--|
| Name | <input type="text" value="awscapstoneALB"/> |
| Scheme | <input checked="" type="radio"/> internet-facing
<input type="radio"/> internal |
| IP address type | <input type="text" value="ipv4"/> |

Listeners

A listener is a process that checks for connection requests, using the protocol and port that you configured.

| Load Balancer Protocol | Load Balancer Port | |
|---|--------------------|---|
| HTTP | 80 | X |
| HTTPS (Secure HTTP) | 443 | X |
| <input type="button" value="Add listener"/> | | |

Load balancer in hangi portlari dinleyecegine karar verdik

| | |
|--------------------|---|
| VPC | <input type="text" value="vpc-282cb155 (172.31.0.0/16) (default)"/> |
| Availability Zones | <input type="text" value="vpc-282cb155 (172.31.0.0/16) (default)"/>
<input type="text" value="vpc-0def3fffc20080605b (10.7.0.0/16) clarus-vpc-a"/>
<input checked="" type="text" value="vpc-045d76405de1b8cb5 (90.90.0.0/16) aws_capstone-VPC"/>
<input type="text" value="us-east-1b subnet-465c9920"/> |

Availability Zones

Specify the Availability Zones to enable for your load balancer. The load balancer routes traffic to the targets in these Availability Zones only. You can specify only one subnet per Availability Zone. You must specify subnets from at least two Availability Zones to increase the availability of your load balancer.

| | |
|--------------------|--|
| VPC | <input type="text" value="vpc-045d76405de1b8cb5 (90.90.0.0/16) aws_capstone-VPC"/> |
| Availability Zones | <input checked="" type="checkbox"/> us-east-1a <input type="text" value="subnet-0c4294547cef4dc9f (aws_capstone-public-si)"/>
<input checked="" type="checkbox"/> us-east-1b <input type="text" value="subnet-0307e833dcfeb091a (aws_capstone-private)"/> |
| IPv4 address | Assigned by AWS |

Public subnetleri işaretliyoruz

Next: Configure Security Settings

Secure baglanti icin sertifika seciyoruz

Step 2: Configure Security Settings

Select default certificate

AWS Certificate Manager (ACM) is the preferred tool to provision and store server certificates. If you previously stored a server certificate using IAM, you can deploy it to your load balancer. [Learn more](#) about HTTPS listeners and certificate management.

Certificate type Choose a certificate from ACM (recommended)
 Upload a certificate to ACM (recommended)
 Choose a certificate from IAM
 Upload a certificate to IAM

Request a new certificate from ACM
 AWS Certificate Manager makes it easy to provision, manage, deploy, and renew SSL Certificates on the AWS platform. ACM manages certificate renewals for you. [Learn more](#)

Certificate name

Select Security Policy

Security policy

Step 3: Configure Security Groups

A security group is a set of firewall rules that control the traffic to your load balancer. On this page, you can add rules to allow specific traffic to reach your load balancer. You can create a new security group or select an existing one.

Assign a security group Create a new security group
 Select an existing security group

| Security Group ID | Name | Description |
|----------------------|----------------------------|--|
| sg-01cef22a7616129b6 | aws_capstone_ALB_Sec_Group | ALB Security Group allows traffic HTTP and HTTPS ports from anywhere |

Step 4: Configure Routing

Your load balancer routes requests to the targets in this target group using the protocol and port that you specify here. It also performs health checks on the targets using these settings. The target group you specify in this step will apply to all of the listeners configured on this load balancer. You can edit or add listeners after the load balancer is created.

Target group

Target group

Name

Target type Instance
 IP
 Lambda function

Protocol

Port

Protocol version HTTP1
 Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.
 HTTP2
 Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.
 gRPC
 Send requests to targets using gRPC. Supported when the request protocol is gRPC.

Health checks

Protocol
 Path

Advanced health check settings

Port traffic port
 override
 Healthy threshold
 Unhealthy threshold
 Timeout seconds
 Interval seconds
 Success codes

[Cancel](#) [Previous](#) [Next: Register Targets](#)

[Next: Register Targets](#)

1. Configure Load Balancer 2. Configure Security Settings 3. Configure Security Groups 4. Configure Routing 5. Register Targets 6. Review

Step 5: Register Targets

Register targets with your target group. If you register a target in an enabled Availability Zone, the load balancer starts routing requests to the targets as soon as the registration process completes and the target passes the initial health checks.

Registered targets

To deregister instances, select one or more registered instances and then click Remove.

| Remove | Instance | Name | Port | State | Security groups | Zone |
|-------------------------|----------|------|------|-------|-----------------|------|
| No instances available. | | | | | | |

Instances

To register additional instances, select one or more running instances, specify a port, and then click Add. The default port is the port specified for the target group. If the instance is already registered on the specified port, you must specify a different port.

| Add to registered on port 80 | Search Instances | | | | | | |
|------------------------------|-------------------|------------------|----------|------------------|------------|--------------------------|---------------|
| Instance | Name | State | Security | Zone | Subnet ID | Subnet CIDR | |
| <input type="checkbox"/> | i-00dc70aeb44e... | AWS Capstone ... | running | aws_capstone_... | us-east-1a | subnet-0c4294547cef4dc9f | 90.90.10.0/24 |

Yukarıda çalışan instance'leri register yapabiliriz. Burada bir işlem yapmıyoruz

Next ve create

80 den gelen istekleri 443 e redirect edecegiz

Create Load Balancer Actions ▾

| Name | DNS name | State | VPC ID | Availability Zone |
|----------------|----------------------------|--------------|-----------------------|----------------------|
| awscapstoneALB | awscapstoneALB-40752762... | Provisioning | vpc-045d78405de1b8cb5 | us-east-1b, us-ea... |

Load balancer: awscapstoneALB

Description Listeners Monitoring Integrated services Tags

Listeners listen for connection requests using their protocol and port. You can add, remove, or update listeners and listener rules.

To view and edit listener attributes, select the listener and choose Edit.

| Listener ID | Security policy | SSL Certificate | Rules |
|---|---------------------------|--|--|
| <input checked="" type="checkbox"/> HTTP : 80 | N/A | N/A | Default: forwarding to View/edit rules |
| <input type="checkbox"/> HTTPS : 443 | ELBSecurityPolicy-2016-08 | Default: 87719c28-ceba-42f4-aaef-30eeb8f54f37 (ACM) View/edit certificates | Default: forwarding to View/edit rules |

Edit

Default action(s)

Indicate how this listener will route traffic that is not otherwise routed by another rule.

1. Forward to awscapstoneTargetGroup: 1 (100%) Group-level stickiness: Off

[Delete](#)

[+ Add action](#)

Silelim

Default action(s)
Indicate how this listener will route traffic that is not otherwise routed by another rule.

+ Add action

Forward to...
Redirect to...
Return fixed response...

Note: Additional actions are available for HTTPS listeners.

awscapstoneALB | HTTP : 80

Listeners belonging to Application Load Balancers check for connection requests using the protocol and port you configure. Each listener must include a default action to ensure all requests are routed. Once you have created your listener, you can create and manage additional routing rules as needed. [Learn more](#)

ARN
arn:aws:elasticloadbalancing:us-east-1:000667629202:listener/app/awscapstoneALB/0275f2c549cffcd/be10cb66e17d7009

Protocol : port
Select the protocol for connections from the client to your load balancer, and enter a port number from which to listen for traffic.

HTTP : 80

Default action(s)
Indicate how this listener will route traffic that is not otherwise routed by another rule.

1. Redirect to...

HTTPS : 443 Original value: #{port}

Original host, path, query

301 - Permanently moved

Switch to full URL

+ Add action

Update

Her baglantinin secure olmasini istiyoruz. 80 icin 'sana geleni 443 e redirect et dedik secure olmasi icin'

Create Auto Scaling group

Get started with EC2 Auto Scaling by creating an Auto Scaling group.

Create Auto Scaling group

```
## Step 13: Create Autoscaling Group with Launch Template

Go to the Autoscaling Group on the left hand side menu. Click create Autoscaling group.

- Choose launch template or configuration
```text
Auto Scaling group name : aws_capstone_ASG
Launch Template : aws_capstone_launch_template
```

- Configure settings
```text
Instance purchase options : Adhere to launch template
Network :
 - VPC : aws-capstone-VPC
 - Subnets : Private 1A and Private 1B
```

- Configure advanced options
```text
- Load balancing : Attach to an existing load balancer
- Choose from your load balancer target groups : awscapstoneTargetGroup
- Health Checks
 - Health Check Type : ELB
 - Health check grace period : 300
```

- Configure group size and scaling policies
```text
Group size
 - Desired capacity : 2
 - Minimum capacity : 2
 - Maximum capacity : 4
Scaling policies
 - Target tracking scaling policy
 - Scaling policy name : Target Tracking Policy
 - Metric Type : Average CPU utilization
 - Target value : 70
```

- Add notifications
```text
Create new Notification
 - Notification1
 - Send a notification to : aws-capstone-SNS
 - with these recipients : serdar@clarusway.com
 - event type : select all
```
```
```

**Step 1**  
Choose launch template or configuration

**Step 2**  
Configure settings

**Step 3 (optional)**  
Configure advanced options

**Step 4 (optional)**  
Configure group size and scaling policies

**Step 5 (optional)**  
Add notifications

**Step 6 (optional)**  
Add tags

**Step 7**  
Review

## Choose launch template or configuration Info

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group. If you currently use launch configurations, you might consider migrating to launch templates.

| Name                                                                                                                                                                                                                 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Auto Scaling group name<br>Enter a name to identify the group.<br><input type="text" value="aws_capstone_ASG"/> <small>Must be unique to this account in the current Region and no more than 255 characters.</small> |  |

| Launch template <small>Info</small>                                                                                                                                                 |                                                                     | Switch to launch configuration |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------|
| <b>Launch template</b><br>Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups. |                                                                     |                                |
| <input type="text" value="aws_capstone_launch_template"/> <small>▼</small> <span style="border: 1px solid #ccc; padding: 2px;">C</span>                                             |                                                                     |                                |
| <a href="#">Create a launch template</a>                                                                                                                                            |                                                                     |                                |
| <b>Version</b>                                                                                                                                                                      |                                                                     |                                |
| <input type="button" value="Default (1)"/> <span style="border: 1px solid #ccc; padding: 2px;">C</span>                                                                             |                                                                     |                                |
| <a href="#">Create a launch template version</a>                                                                                                                                    |                                                                     |                                |
| Description                                                                                                                                                                         | Launch template                                                     | Instance type                  |
| Blog Web Page version 1                                                                                                                                                             | <a href="#">aws_capstone_launch_template</a>                        | t2.micro                       |
| AMI ID                                                                                                                                                                              | Security groups                                                     | Request Spot Instances         |
| ami-0747bdcabd34c712a                                                                                                                                                               | -                                                                   | No                             |
| Key pair name                                                                                                                                                                       | Security group IDs                                                  |                                |
| EC2_key                                                                                                                                                                             | <a href="#">sg-004d61b867ed1f453</a>                                |                                |
| <b>Additional details</b>                                                                                                                                                           |                                                                     |                                |
| Storage (volumes)                                                                                                                                                                   | Date created                                                        |                                |
| -                                                                                                                                                                                   | Sat Aug 21 2021 13:55:23<br>GMT+0300 (Eastern European Summer Time) |                                |

[Cancel](#)

[Next](#)

Olusturdugumuz template yi sectik ve next

## Configure settings Info

Configure the settings below. Depending on whether you chose a launch template, these settings may include options to help you make optimal use of EC2 resources.

### Instance purchase options Info

Use the launch template to create a uniform configuration among all of the instances in the group. Or define options to accommodate a wide variety of requirements, such as launching Spot and On-Demand Instances.

Adhere to launch template

The launch template determines the purchase option (On-Demand or Spot) and instance type.

Combine purchase options and instance types

Specify how much On-Demand and Spot capacity to launch and multiple instance types (optional). This choice is most helpful for optimizing the scale and cost for a fleet of instances.

### Network Info

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC

vpc-045d76405de1b8cb5 (aws\_capstone-VPC)  
90.90.0.0/16



Create a VPC

Subnets

Select subnets



us-east-1a | subnet-03f008d897753ce83  
(aws\_capstone-private-subnet-1A)  
90.90.11.0/24



us-east-1b | subnet-0307e833dcfeb091a  
(aws\_capstone-private-subnet-1B)  
90.90.21.0/24



Create a subnet

Cancel

Previous

Skip to review

Next

## Vpc ve iki private subneti seçtiğim

## Configure advanced options Info

Choose a load balancer to distribute incoming traffic for your application across instances to make it more reliable and easily scalable. You can also set options that give you more control over health check replacements and monitoring.

### Load balancing - optional Info

Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.

No load balancer

Traffic to your Auto Scaling group will not be fronted by a load balancer.

Attach to an existing load balancer

Choose from your existing load balancers.

Attach to a new load balancer

Quickly create a basic load balancer to attach to your Auto Scaling group.

## Mevcut load balancer a ekliyoruz

### Attach to an existing load balancer

Select the load balancers that you want to attach to your Auto Scaling group.

Choose from your load balancer target groups

This option allows you to attach Application, Network, or Gateway Load Balancers.

Choose from Classic Load Balancers

Existing load balancer target groups

Only instance target groups that belong to the same VPC as your Auto Scaling group are available for selection.

Select target groups



awscapstoneTargetGroup | HTTP  
Application Load Balancer: awscapstoneALB

### Health checks - optional

#### Health check type Info

EC2 Auto Scaling automatically replaces instances that fail health checks. If you enabled load balancing, you can enable ELB health checks in addition to the EC2 health checks that are always enabled.

EC2  ELB

#### Health check grace period

The amount of time until EC2 Auto Scaling performs the first health check on new instances after they are put into service.

300 seconds

next

### Configure group size and scaling policies Info

Set the desired, minimum, and maximum capacity of your Auto Scaling group. You can optionally add a scaling policy to dynamically scale the number of instances in the group.

#### Group size - optional Info

Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.

##### Desired capacity

2

##### Minimum capacity

2

##### Maximum capacity

4

### Scaling policies - optional

Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand.

Info

Target tracking scaling policy

Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.

None

#### Scaling policy name

Target Tracking Policy

#### Metric type

Average CPU utilization



#### Target value

70

#### Instances need

300

seconds warm up before including in metric

Disable scale in to create only a scale-out policy

Next

### Add notifications Info

Send notifications to SNS topics whenever Amazon EC2 Auto Scaling launches or terminates the EC2 instances in your Auto Scaling group.

Add notification

Cancel

Previous

Skip to review

Next

Devopscu olarak notification isteyebiliriz

**Tags (1)**

|                         |                  |                                     |
|-------------------------|------------------|-------------------------------------|
| Key                     | Value - optional | Tag new instances                   |
| Name                    | aws-capstone-asg | <input checked="" type="checkbox"/> |
| <a href="#">Add tag</a> |                  |                                     |
| 49 remaining            |                  |                                     |

[Cancel](#) [Previous](#) [Next](#)

[Create Auto Scaling group](#)

## Dashboard

EC2 > Auto Scaling groups

**Auto Scaling groups (1/1)** [Edit](#) [Delete](#) [Create an Auto Scaling group](#)

| <input checked="" type="checkbox"/> Name | Launch template/configuration                            | Instances | Status                            | Desired capacity |
|------------------------------------------|----------------------------------------------------------|-----------|-----------------------------------|------------------|
| <a href="#">aws_capstone_AS</a>          | <a href="#">aws_capstone_launch_template</a>   Version 0 | 0         | <a href="#">Updating capacity</a> | 2                |

[Details](#) [Activity](#) [Automatic scaling](#) [Instance management](#) [Monitoring](#) [Instance refresh](#)

**Activity notifications (0)** [Edit](#) [Actions](#) [Create notification](#)

| <input checked="" type="checkbox"/> Send to | On instance action |
|---------------------------------------------|--------------------|
| No notifications are currently specified    |                    |

[Create notification](#)

**Activity history (0)** [Edit](#)

| Status | Description | Cause |
|--------|-------------|-------|
| <   >  |             |       |

Ec2 acilmakta

**Instances (3) Info** [Edit](#) [Connect](#) [Instance state](#) [Actions](#)

[Filter instances](#)

| <input type="checkbox"/> Name             | Instance ID         | Instance state | Actions                                   |
|-------------------------------------------|---------------------|----------------|-------------------------------------------|
| <a href="#">aws-capstone-asg</a>          | i-00c765e2d252b0cef | Running        | <a href="#">Edit</a> <a href="#">View</a> |
| <a href="#">AWS Capstone NAT Instance</a> | i-00dc70aeb44ea37ea | Running        | <a href="#">Edit</a> <a href="#">View</a> |
| <a href="#">aws-capstone-asg</a>          | i-06edc901fce53b50d | Pending        | <a href="#">Edit</a> <a href="#">View</a> |

Asg, target groups kontrol edebiliriz

EC2 > Target groups > awscapstoneTargetGroup

### awscapstoneTargetGroup

[Delete](#)

arn:aws:elasticloadbalancing:us-east-1:000667629202:targetgroup/awscapstoneTargetGroup/b4e11d96c3e3462e

| Details                         |                             |                           |                              |
|---------------------------------|-----------------------------|---------------------------|------------------------------|
| Target type<br>Instance         | Protocol : Port<br>HTTP: 80 | Protocol version<br>HTTP1 | VPC<br>vpc-045d76405de1b8cb5 |
| Load balancer<br>awscapstoneALB |                             |                           |                              |
| Total targets<br>2              | Healthy<br>0                | Unhealthy<br>2            | Unused<br>0                  |
|                                 | Initial<br>0                | Draining<br>0             |                              |

**Targets** | Monitoring | Health checks | Attributes | Tags

**Registered targets (2)**

| <input type="checkbox"/> | Instance ID         | Name             | Port | Zone       | Health status                                | Health status details |
|--------------------------|---------------------|------------------|------|------------|----------------------------------------------|-----------------------|
| <input type="checkbox"/> | i-06edc901fce53b50d | aws-capstone-asg | 80   | us-east-1a | <span style="color: red;">☒</span> unhealthy | Health checks failed  |
| <input type="checkbox"/> | i-00c765e2d252b0cef | aws-capstone-asg | 80   | us-east-1b | <span style="color: red;">☒</span> unhealthy | Health checks failed  |

User data yi hazirladigi icin unhealty olarak gorunmekte

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

| <input type="checkbox"/> | Name           | DNS name                   | State  | VPC ID                | Availability Z. |
|--------------------------|----------------|----------------------------|--------|-----------------------|-----------------|
| <input type="checkbox"/> | awscapstoneALB | awscapstoneALB-40752762... | Active | vpc-045d76405de1b8cb5 | us-east-1b, us- |

Load balancer: awscapstoneALB

Description | Listeners | Monitoring | Integrated services | Tags

**Basic Configuration**

Name: awscapstoneALB  
ARN: arn:aws:elasticloadbalancing:us-east-1:000667629202:loadbalancer/app/awscapstoneALB/0275f2c549cffcd  
DNS name: awscapstoneALB-407527620.us-east-1.elb.amazonaws.com (A Record)

DNS den sayfayi gormeye calisalim

Not secure | awscapstonealb-407527620.us-east-1.elb.amazonaws.com

Clarusway Blog Home About Login Register

## Clarusway Blog

Not secure | awscapstonealb-407527620.us-east-1.elb.amazonaws.com

Hala secure olmadina dikkat edelim ==> route 53 e yonlendirirsek sorunu cozeriz

Register

Clarusway Blog Home About

Login Register

## Join Today

Username\*

Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

Email\*

Password\*

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation\*

Enter the same password as before, for verification.

[Sign Up](#)

Already have an account? [Sign In](#)

Acoount created for hamid

## Login

Username\*

Password\*

[Login](#)

[Forgot Password?](#)

Need an account? [Sign Up Now](#)

Login oldugumuza gore RDS calisiyor

New Post

## Blog Post

Title\*

Content\*

bu super bir calisma

Image\*

Choose File 104.jpg

Category\*

Entertainment



Status\*

Draft

## Blog Post

Title\*

Content\*

Image\*

 094.jpg

Category\*

Status\*

Status publish oldugu takdirde goruntuyu alabiliriz

Instance icerisine bakmak icin; (user data dan emin degilsek)

```
eval "$(ssh-agent)" (your local)
ssh-add <pem-key> (your local)
ssh -A ec2-user@<Public IP or DNS name of NAT instance> (your local)
ssh ubuntu@<Public IP or DNS name of private instance> [NAT instance]
```

```
eval "$(ssh-agent)" (your local)
ssh-add <pem-key> (your local)
ssh -A ec2-user@<Public IP or DNS name of NAT instance> (your local)
ssh ubuntu@<Public IP or DNS name of private instance> (NAT
instance)
```

Yukledigimiz fotolar s3 de depolanmaya baslandi. Yorumlar ise RDS  
de.

**Objects (2)**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions.

[Learn more](#)

[Copy S3 URI](#)  [Copy URL](#)  [Download](#) [Open](#)

[Delete](#) [Actions ▾](#) [Create folder](#)  [Upload](#)

Find objects by prefix

| <input type="checkbox"/> | Name    | Type   | Last modified | Size | Storage class |
|--------------------------|---------|--------|---------------|------|---------------|
| <input type="checkbox"/> | media/  | Folder | -             | -    | -             |
| <input type="checkbox"/> | static/ | Folder | -             | -    | -             |

Amazon S3 > awscapstones3hamidblog > media/ > blog/ > 1/

[Copy S3 URI](#)

[Objects](#) [Properties](#)

**Objects (2)**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions.

[Learn more](#)

[Copy S3 URI](#)  [Copy URL](#)  [Download](#) [Open](#)

[Delete](#) [Actions ▾](#) [Create folder](#)  [Upload](#)

Find objects by prefix

| <input type="checkbox"/> | Name    | Type | Last modified                         | Size   | Storage class |
|--------------------------|---------|------|---------------------------------------|--------|---------------|
| <input type="checkbox"/> | 094.jpg | jpg  | August 21, 2021, 15:34:16 (UTC+03:00) | 3.6 MB | Standard      |
| <input type="checkbox"/> | 104.jpg | jpg  | August 21, 2021, 15:33:27 (UTC+03:00) | 6.2 MB | Standard      |

**Get started with CloudFront**

Enable accelerated, reliable and secure content delivery for Amazon S3 buckets, Application Load Balancers, Amazon API Gateway APIs, and more in 5 minutes or less.

[Create a CloudFront distribution](#)

elvers

```

Step 14: Create Cloudfront in front of ALB
Go to the cloudfront menu and click start
- Origin Settings
```text
Origin Domain Name      : aws-capstone-ALB-1947210493.us-east-2.elb.amazonaws.com
Origin Path             : Leave empty (this means, define for root '/')
Protocol               : Match Viewer
HTTP Port              : 80
HTTPS                 : 443
Minimum Origin SSL Protocol : Keep it as is
Name                   : Keep it as is
Add custom header      : No header
Enable Origin Shield   : No
Additional settings     : Keep it as is
```

Default Cache Behavior Settings
```text
Path pattern            : Default (*)
Compress objects automatically : Yes
Viewer Protocol Policy   : Redirect HTTP to HTTPS
Allowed HTTP Methods    : GET, HEAD, OPTIONS, PUT, POST, PATCH,
DELETE
Cached HTTP Methods      : Select OPTIONS
Cache key and origin requests
- Use legacy cache settings
Headers     : Include the following headers
  Add Header
    - Accept
    - Accept-Charset
    - Accept-Datetime
    - Accept-Encoding
    - Accept-Language
    - Authorization
    - Cloudfront-Forwarded-Proto
    - Host
    - Origin
    - Referrer
Forward Cookies          : All
Query String Forwarding and Caching : All
Other stuff                : Keep them as are
```

- Distribution Settings
```text
Price Class              : Use all edge locations (best performance)
Alternate Domain Names   : www.clarusway.us
SSL Certificate           : Custom SSL Certificate (example.com) --->
Select your certificate created before
Other stuff                : Keep them as are
```

```

## Origin

Origin domain  
Choose an AWS origin, or enter your origin's domain name.

X

- [Use: alb](#)
- [Elastic load balancer](#)
- [awscapstoneALB](#)

## Create distribution

### Origin

**Origin domain**  
Choose an AWS origin, or enter your origin's domain name.

**Origin path - optional** Info  
Enter a URL path to append to the origin domain name for origin requests.

**Protocol** Info

- HTTP only
- HTTPS only
- Match viewer

**HTTP port**  
Enter your origin's HTTP port. The default is port 80.

**HTTPS port**  
Enter your origin's HTTPS port. The default is port 443.

**Minimum origin SSL protocol** Info  
The minimum SSL protocol that CloudFront uses with the origin.

- TLSv1.2
- TLSv1.1
- TLSv1
- SSLv3

**Name**  
Enter a name for this origin.

**Add custom header - optional**  
CloudFront includes this header in all requests that it sends to your origin.

**Add header**

**80 ve 443 den de karsila**

**Enable Origin Shield** Info  
Origin Shield is an additional caching layer that can help reduce the load on your origin and help protect its availability.

- No
- Yes

**► Additional settings**

**▼ Additional settings**

**Connection attempts**  
The number of times that CloudFront attempts to connect to the origin, from 1 to 3. The default is 3.

**Connection timeout**  
The number of seconds that CloudFront waits for a response from the origin, from 1 to 10. The default is 10.

**Response timeout - only applicable to custom origins**  
The number of seconds that CloudFront waits for a response from the origin, from 1 to 60. The default is 30.

**Keep-alive timeout - only applicable to custom origins**  
The number of seconds that CloudFront maintains an idle connection with the origin, from 1 to 60. The default is 5.

## Default cache behavior

Path pattern [Info](#)

Default (\*)

Compress objects automatically [Info](#)

No

Yes

### Viewer

Viewer protocol policy

- HTTP and HTTPS
- Redirect HTTP to HTTPS
- HTTPS only

Allowed HTTP methods

- GET, HEAD
- GET, HEAD, OPTIONS
- GET, HEAD, OPTIONS, PUT, POST, PATCH, DELETE

Cache HTTP methods

GET and HEAD methods are cached by default.

OPTIONS

Restrict viewer access

If you restrict viewer access, viewers must use CloudFront signed URLs or signed cookies to access your content.

No

Yes

## Cache key and origin requests

We recommend using a cache policy and origin request policy to control the cache key and origin requests.

Cache policy and origin request policy (recommended)

Legacy cache settings

Headers

Choose which headers to include in the cache key.

Include the following headers ▾

Add header

Select an existing header element or create a custom header. (max 10)

Select headers ▾

Add custom

Accept X Accept-Charset X Accept-Language X

Accept-Datetime X Accept-Encoding X Authorization X Host X

Origin X Referer X CloudFront-Forwarded-Proto X

Query strings

Choose which query strings to include in the cache key.

All ▾

Cookies

Choose which cookies to include in the cache key.

All ▾

Object caching

Use origin cache headers

Customize

## Settings

Price class [Info](#)

Choose the price class associated with the maximum price that you want to pay.

Use all edge locations (best performance)

Use only North America and Europe

Use North America, Europe, Asia, Middle East, and Africa

AWS WAF web ACL - optional

Choose the web ACL in AWS WAF to associate with this distribution.

Choose web ACL ▾

Alternate domain name (CNAME) - optional

Add the custom domain names that you use in URLs for the files served by this distribution.

Add item

To add a list of alternative domain names, use the bulk editor.

## Add item

Alternate domain name (CNAME) - optional  
Add the custom domain names that you use in URLs for the files served by this distribution.

To add a list of alternative domain names, use the [bulk editor](#).

### Custom SSL certificate - optional

Associate a certificate from AWS Certificate Manager. The certificate must be in the US East (N. Virginia) Region (us-east-1).

[Request certificate](#)

Legacy clients support - \$600/month prorated charge applies. Most customers do not need this.  
CloudFront allocates dedicated IP addresses at each CloudFront edge location to serve your content over HTTPS.

Enabled

### Security policy

The security policy determines the SSL or TLS protocol and the specific ciphers that CloudFront uses for HTTPS connections with viewers (clients).

TLSv1.2\_2021 (recommended)

TLSv1.2\_2019

TLSv1.2\_2018

TLSv1.1\_2016

TLSv1\_2016

TLSv1

### Supported HTTP versions

Add support for additional HTTP versions. HTTP/1.0 and HTTP/1.1 are supported by default.

HTTP/2

### Default root object - optional

The object (file name) to return when a viewer requests the root URL (/) instead of a specific object.

### Standard logging

Get logs of viewer requests delivered to an Amazon S3 bucket.

Off

On

### IPv6

Off

On

CloudFront > Distributions

Distributions (1) [Info](#)

| ID            | Description | Domain na...   | Alternate ...      | Origins           | Status                                      | Last modi...    |
|---------------|-------------|----------------|--------------------|-------------------|---------------------------------------------|-----------------|
| E35B2HJ3VWS32 | -           | dcka6cgħs5k... | www.abdulhamidg... | awscapstoneALB-4C | <input checked="" type="checkbox"/> Enabled | 8/21/2021, 1... |

Route 53 e gidip yakisikli hale getirelim

Failover senaryo icin healthcheck olusturmamiz gerekiyor

Dashboard

Hosted zones

**Health checks**

Traffic flow

Traffic policies

Policy records

Domains

Registered domains

Pending requests

Resolver

VPCs

Inbound endpoints

Outbound endpoints

Rules

Query logging

DNS Firewall

---

Welcome to Route 53 health checks

Route 53 health checks monitor the health and performance of your application's servers, or endpoints, from a network of health checkers in locations around the world. You can specify either a domain name or an IP address and a port to create HTTP, HTTPS, and TCP health checks that check the health of the endpoint. To get started, click Create health check.

[Create health check](#)

### Health check concepts



Availability and performance monitoring

You can use Route 53 health checks for monitoring and alerts. Each health check provides CloudWatch metrics that you can view and set alarms on.

[Learn more](#)



DNS failover

You can also use Route 53 health checks for DNS failover by associating health checks with any Route 53 DNS resource record set. This lets you route requests based on the health of your endpoints.

[Learn more](#)

## Cloudfront un domain namesini kopyalayalım

| ID             | Description | Domain na...   |
|----------------|-------------|----------------|
| E35B2HJ3VSW532 | -           | dcka6cghs5k... |

## Create health check

### Step 1: Configure health check

Step 2: Get notified when health check fails

### Configure health check

Route 53 health checks let you track the health status of your resources, such as web servers or mail servers, and take action when an outage occurs.

Name

- What to monitor  Endpoint  
 Status of other health checks (calculated health check)  
 State of CloudWatch alarm

### Monitor an endpoint

Multiple Route 53 health checkers will try to establish a TCP connection with the following resource to determine whether it's healthy. [Learn more](#)

Specify endpoint by  IP address  Domain name

Protocol

Domain name \*

Port \*

Path

### Advanced configuration

URL

Health check type Basic - no additional options selected ([View Pricing](#))

\* Required

[Cancel](#)

[Next](#)

Get notified when health check fails

If you want CloudWatch to send you an Amazon SNS notification, such as an email, when the status of the health check changes to unhealthy, create an alarm and specify where to send notifications.

Create alarm  Yes  No

\* Required Cancel Previous Create health check

Health check with id 9cf90a77-1638-4f27-b5af-f7239b09a519 has been created successfully.

Create health check Delete health check Edit health check

Filter by keyword << < 1 to 1 of 1 health check > >>

| Name                                               | Status  | Description                            | Alarms    |
|----------------------------------------------------|---------|----------------------------------------|-----------|
| <input type="checkbox"/> aws-capstone-health-check | Unknown | http://dcka6cgbs5k7.cloudfront.net:80/ | No alarms |

Route 53 > Hosted zones > abdulhamidgokce.com

abdulhamidgokce.com Delete zone Test record Configure query logging

Hosted zone details

Records (4) DNSSEC signing Hosted zone tags (0)

Records (4) Info  
Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

Delete record Import zone file

Filter records by property or value Type Routing policy Alias < 1 >

| Record name                                                   | Type  | Routing | Differences | Value/Route traffic to                                                                                  |
|---------------------------------------------------------------|-------|---------|-------------|---------------------------------------------------------------------------------------------------------|
| abdulhamidgokce.com                                           | NS    | Simple  | -           | ns-1333.awsdns-38.org.<br>ns-279.awsdns-34.com.<br>ns-764.awsdns-31.net.<br>ns-1823.awsdns-35.co.uk.    |
| abdulhamidgokce.com                                           | SOA   | Simple  | -           | ns-1333.awsdns-38.org. awsdns-279.awsdns-34.com. awsdns-764.awsdns-31.net. awsdns-1823.awsdns-35.co.uk. |
| _644c46748e6ac923413136efae289055.abdulhamidgokce.com         | CNAME | Simple  | -           | _7b5807163233d3db0342064                                                                                |
| _b786e072f60a9c4d6ed1a3c25262941a.kediler.abdulhamidgokce.com | CNAME | Simple  | -           | _5d73c1716e9cb6c124bf59ae                                                                               |

Create record

**Quick create record** [Info](#) [Switch to wizard](#)

**Record 1**

|                                                                                                                                                      |                                                                                    |                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Record name <a href="#">Info</a><br>www                                                                                                              | Record type <a href="#">Info</a><br>A – Routes traffic to an IPv4 address and s... | Route traffic to <a href="#">Info</a><br><input checked="" type="radio"/> Alias<br>Alias to CloudFront distribution |
| Valid characters: a-z, 0-9, ! * # \$ % & ' ( ) * + , - / ; : < = > ? @ [ \ ] ^ _ { } . ~                                                             |                                                                                    |                                                                                                                     |
| An alias to a CloudFront distribution and an alias to another record in the same hosted zone are global and available only in US East (N. Virginia). |                                                                                    |                                                                                                                     |
| <input type="text"/> dcka6cghs5k7.cloudfront.net <input type="button" value="X"/>                                                                    |                                                                                    |                                                                                                                     |
| Routing policy <a href="#">Info</a><br>Failover                                                                                                      | Failover record type<br>Primary                                                    | Health check <a href="#">Info</a><br>aws capstone health check                                                      |
| Evaluate target health<br><input type="radio"/> No                                                                                                   | Record ID <a href="#">Info</a><br>Cloudfront as Primary Record                     |                                                                                                                     |
| <input type="button" value="Add another record"/>                                                                                                    |                                                                                    |                                                                                                                     |
| <input type="button" value="Cancel"/> <input type="button" value="Create records"/>                                                                  |                                                                                    |                                                                                                                     |

**Quick create record** [Info](#) [Switch to wizard](#)

**Record 1**

|                                                                                                                                                      |                                                                                    |                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Record name <a href="#">Info</a><br>www                                                                                                              | Record type <a href="#">Info</a><br>A – Routes traffic to an IPv4 address and s... | Route traffic to <a href="#">Info</a><br><input checked="" type="radio"/> Alias<br>Alias to CloudFront distribution |
| Valid characters: a-z, 0-9, ! * # \$ % & ' ( ) * + , - / ; : < = > ? @ [ \ ] ^ _ { } . ~                                                             |                                                                                    |                                                                                                                     |
| An alias to a CloudFront distribution and an alias to another record in the same hosted zone are global and available only in US East (N. Virginia). |                                                                                    |                                                                                                                     |
| <input type="text"/> dcka6cghs5k7.cloudfront.net <input type="button" value="X"/>                                                                    |                                                                                    |                                                                                                                     |
| Routing policy <a href="#">Info</a><br>Failover                                                                                                      | Failover record type<br>Primary                                                    | Health check <a href="#">Info</a><br>aws capstone health check                                                      |
| Evaluate target health<br><input type="radio"/> No                                                                                                   | Record ID <a href="#">Info</a><br>Cloudfront as Primary Record                     |                                                                                                                     |
| <input type="button" value="Delete"/>                                                                                                                |                                                                                    |                                                                                                                     |
| <input type="button" value="Add another record"/>                                                                                                    |                                                                                    |                                                                                                                     |

**Record 2**

|                                                                                                                                                      |                                                                                    |                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Record name <a href="#">Info</a><br>www                                                                                                              | Record type <a href="#">Info</a><br>A – Routes traffic to an IPv4 address and s... | Route traffic to <a href="#">Info</a><br><input checked="" type="radio"/> Alias<br>Alias to S3 website endpoint |
| Valid characters: a-z, 0-9, ! * # \$ % & ' ( ) * + , - / ; : < = > ? @ [ \ ] ^ _ { } . ~                                                             |                                                                                    |                                                                                                                 |
| An alias to a CloudFront distribution and an alias to another record in the same hosted zone are global and available only in US East (N. Virginia). |                                                                                    |                                                                                                                 |
| <input type="text"/> s3-website-us-east-1.amazonaws.com <input type="button" value="X"/>                                                             |                                                                                    |                                                                                                                 |
| Routing policy <a href="#">Info</a><br>Failover                                                                                                      | Failover record type<br>Secondary                                                  | Health check - optional <a href="#">Info</a><br><input type="button" value="Choose health check"/>              |
| Evaluate target health<br><input checked="" type="radio"/> Yes                                                                                       | Record ID <a href="#">Info</a><br>S3 Bucket for Secondary record type              |                                                                                                                 |
| <input type="button" value="Add another record"/>                                                                                                    |                                                                                    |                                                                                                                 |

**Secondary asagidaki gorsеле yonlendiriyor**

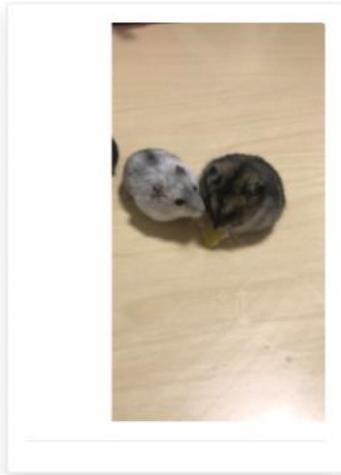
## FAILOVER SCENARIO



|                          |                         |   |          |           |                                    |
|--------------------------|-------------------------|---|----------|-----------|------------------------------------|
| <input type="checkbox"/> | www.abdulhamidgokce.com | A | Failover | Secondary | s3-website-us-east-1.amazonaws.com |
| <input type="checkbox"/> | www.abdulhamidgokce.com | A | Failover | Primary   | dcka6cg5k7.cloudfront.net.         |

Yakisikli adresimiz geldi

## Clarusway Blog



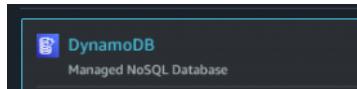
selam2

hamster

0 0 0

Posted 39 minutes ago.

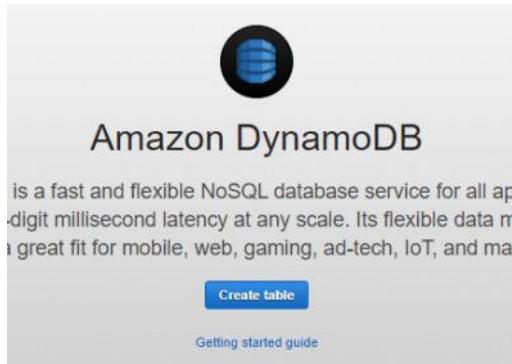
Buraya her foto girdiginde tetikleme olsun ve dynamodb ye yazilmasini istiyoruz



```
Step 16: Create DynamoDB Table
Go to the Dynamo Db table and click create table button

- Create DynamoDB table
```text
Name      : awscapstoneDynamo
Primary key : id
Other Stuff : Keep them as are
click create
```

```



Create DynamoDB table Tutorial

DynamoDB is a schema-less database that only requires a table name and primary key. The table's primary key is made up of one or two attributes that uniquely identify items, partition the data, and sort data within each partition.

Table name\*

Primary key\* Partition key  String

Add sort key

Table settings

Default settings provide the fastest way to get started with your table. You can modify these default settings now or after your table has been created.

Use default settings

- No secondary indexes.
- Provisioned capacity set to 5 reads and 5 writes.
- Basic alarms with 80% upper threshold using SNS topic "dynamodb".
- Encryption at Rest with DEFAULT encryption type.

You do not have the required role to enable Auto Scaling by default.  
Please refer to documentation.

+ Add tags NEW

Additional charges may apply if you exceed the AWS Free Tier levels for CloudWatch or Simple Notification Service. Advanced alarm settings are available in the CloudWatch management console.

Cancel Create

Lambda icin bir role tanimlamamiz lazim IAM sayfasina gecelim

**Roles (8) Info**  
An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

**Create role**

**Select type of trusted entity**

**AWS service** EC2, Lambda and others    **Another AWS account** Belonging to you or 3rd party    **Web identity** Cognito or any OpenID provider    **SAML 2.0 federation** Your corporate directory

Allows AWS services to perform actions on your behalf. [Learn more](#)

**Choose a use case**

**Common use cases**

**EC2**  
Allows EC2 instances to call AWS services on your behalf.

**Lambda**  
Allows Lambda functions to call AWS services on your behalf.

Or select a service to view its use cases

| API Gateway                   | CodeBuild              | EMR Containers             | IoT SiteWise       | RDS             |
|-------------------------------|------------------------|----------------------------|--------------------|-----------------|
| AWS Backup                    | CodeDeploy             | ElastiCache                | IoT Things Graph   | Redshift        |
| AWS Chatbot                   | CodeGuru               | Elastic Beanstalk          | KMS                | Rekognition     |
| AWS Marketplace               | CodeStar Notifications | Elastic Container Registry | Kinesis            | RoboMaker       |
| AWS Support                   | Comprehend             | Elastic Container Service  | Lake Formation     | S3              |
| Amplify                       | Config                 | Elastic Transcoder         | Lambda             | SMS             |
| AppStream 2.0                 | Connect                | Elastic Load Balancing     | Lex                | SNS             |
| AppSync                       | DMS                    | EventBridge                | License Manager    | SWF             |
| Application Auto Scaling      | Data Lifecycle Manager | Forecast                   | MQ                 | SageMaker       |
| Application Discovery Service | Data Pipeline          | GameLift                   | Machine Learning   | Security Hub    |
| Batch                         | DataBrew               | Global Accelerator         | Macie              | Service Catalog |
| Braket                        | DataSync               | Glue                       | Managed Blockchain | Step Functions  |
| Budgets                       | DeepLens               | Greengrass                 | MediaConvert       | Storage Gateway |
| Certificate Manager           | Directory Service      | GuardDuty                  | Migration Hub      | Systems Manager |
| Chime                         | DynamoDB               | Health Organizational View | Network Firewall   | Textract        |
| CloudFormation                | EC2 - Fleet            | IAM Access Analyzer        | Personalize        | Transfer        |
| CloudHSM                      | EC2 Auto Scaling       | Incident Manager           | Purchase Orders    | VPC             |

\* Required    [Cancel](#)    [Next: Permissions](#)

**Create role**

▼ Attach permissions policies

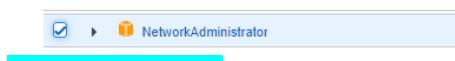
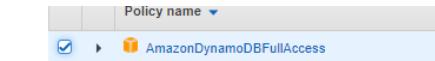
Choose one or more policies to attach to your new role.

[Create policy](#)

**Filter policies** ▾  Showing 10 results

|                                     | Policy name                                             | Used as                |
|-------------------------------------|---------------------------------------------------------|------------------------|
| <input type="checkbox"/>            | AmazonDMSRedshiftS3Role                                 | None                   |
| <input checked="" type="checkbox"/> | AmazonS3FullAccess                                      | Permissions policy (2) |
| <input type="checkbox"/>            | AmazonS3ObjectLambdaExecutionRolePolicy                 | None                   |
| <input type="checkbox"/>            | AmazonS3OutpostsFullAccess                              | None                   |
| <input type="checkbox"/>            | AmazonS3OutpostsReadOnlyAccess                          | None                   |
| <input type="checkbox"/>            | AmazonS3ReadOnlyAccess                                  | None                   |
| <input type="checkbox"/>            | IVSRecordToS3                                           | None                   |
| <input type="checkbox"/>            | QuickSightAccessForS3StorageManagementAnalyticsReadOnly | None                   |

► Set permissions boundary



3 ayrı tik koyduk

## Create role

1 2 3 4

### Review

Provide the required information below and review this role before you create it.

Role name\* aws\_capstone\_lambda\_Role

Use alphanumeric and '-' characters. Maximum 64 characters.

Role description

This role give a permission to lambda to reach S3 and DynamoDB on custom VPC

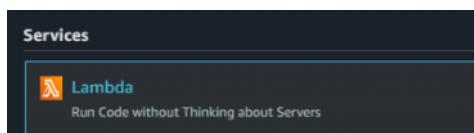
Maximum 1000 characters. Use alphanumeric and '-' characters.

Trusted entities AWS service: lambda.amazonaws.com

Policies AmazonS3FullAccess AmazonDynamoDBFullAccess NetworkAdministrator

Permissions boundary Permissions boundary is not set

No tags were added.



## Create function Info

Choose one of the following options to create your function.

### Author from scratch

Start with a simple Hello World example.

### Use a blueprint

Build a Lambda application from sample code and configuration presets for common use cases.

### Container image

Select a container image to deploy for your function.

### Browse serverless app repository

Deploy a sample Lambda application from the AWS Serverless Application Repository.

## Basic information

### Function name

Enter a name that describes the purpose of your function.

Use only letters, numbers, hyphens, or underscores with no spaces.

### Runtime Info

Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.



### Permissions Info

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

#### ▼ Change default execution role

##### Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- Create a new role with basic Lambda permissions
- Use an existing role
- Create a new role from AWS policy templates

##### Existing role

Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.



[View the aws\\_capstone\\_lambda\\_Role role](#) on the IAM console.

## ► Advanced settings

Cancel

Create function

#### ▼ Advanced settings

### Code signing

#### Code signing configuration - optional Info

To enable code signing, choose a configuration that defines the signature validation policy and the signing profiles that are permitted to sign code.



### Network

To provide network access for your Lambda function, specify a virtual private cloud (VPC), VPC subnets, and VPC security groups. VPC configuration is optional unless your user permissions require you to configure a VPC.

#### VPC - optional Info

Choose a VPC for your function to access.



### Subnets

Select the VPC subnets for Lambda to use to set up your VPC configuration.



subnet-0c4294547cef4dc9f (90.90.10.0/24) us-east-1a

Name: aws\_capstone-public-subnet-1A

subnet-03f008d897753ce83 (90.90.11.0/24) us-east-1a

Name: aws\_capstone-private-subnet-1A

subnet-012dd15a9971837b2 (90.90.20.0/24) us-east-1b

Name: aws\_capstone-public-subnet-1B

subnet-0307e833dcfeb091a (90.90.21.0/24) us-east-1b

Name: aws\_capstone-private-subnet-1B

### Security groups

Choose the VPC security groups for Lambda to use to set up your VPC configuration. The table below shows the inbound and outbound rules for the security groups that you choose.



sg-0e447fd61b17c3253 (default)   
default VPC security group



Lambda functionun tetiklemesi icin s3 te event olusturacagiz (birsey ekleme/cikarma)

Amazon S3 > awscapstones3hamidblog

awscapstones3hamidblog [Info](#)

Objects | **Properties** | Permissions | Metrics | Management |

Access Points

**Event notifications (0)**

Send a notification when specific events occur in your bucket. [Learn more](#)

Edit Delete **Create event notification**

| Name | Event types            | Filters |
|------|------------------------|---------|
|      | No event notifications |         |

Choose **Create event notification** to be notified when a specific event

**Create event notification**

Amazon S3 > awscapstones3hamidblog > Create event notification

**Create event notification** [Info](#)

The notification configuration identifies the events you want Amazon S3 to publish and the destinations where you want Amazon S3 to send the notifications. [Learn more](#)

**General configuration**

Event name  
aws capstone S3 event  
Event name can contain up to 255 characters.

Prefix - optional  
Limit the notifications to objects with key starting with specified characters.  
media/

Suffix - optional  
Limit the notifications to objects with key ending with specified characters.  
.jpg

Media klasoru altindaki hersey

## Event types

Specify at least one type of event for which you want to receive notifications. [Learn more](#)

### All object create events

- Put  
s3:ObjectCreated:Put
- Post  
s3:ObjectCreated:Post
- Copy  
s3:ObjectCreated:Copy
- Multipart upload completed  
s3:ObjectCreated:CompleteMultipartUpload

### All object delete events

- Permanently deleted  
s3:ObjectRemoved:Delete
- Delete marker created  
s3:ObjectRemoved:DeleteMarkerCreated

### Restore object events

- Restore initiated  
s3:ObjectRestore:Post
- Restore completed  
s3:ObjectRestore:Completed

### Reduced Redundancy Storage (RRS) object lost events

s3:ReducedRedundancyLostObject

### Replication events

- Replication Time Control: Object exceeded 15 minute threshold  
s3:Replication:OperationMissedThreshold
- Replication Time Control: Object replicated after 15 minute threshold  
s3:Replication:OperationReplicatedAfterThreshold
- Object not tracked by Replication  
s3:Replication:OperationNotTracked
- Object failed to replicate  
s3:Replication:OperationFailedReplication

## Nereyi tetikletecegini sececegiz

### Destination

Before Amazon S3 can publish messages to a destination, you must grant the Amazon S3 principal the necessary permissions to call the relevant API to publish messages to an SNS topic, an SQS queue, or a Lambda function. [Learn more](#)

#### Destination

Choose a destination to publish the event. [Learn more](#)

##### Lambda function

Run a Lambda function script based on S3 events.

##### SNS topic

Send notifications to email, SMS, or an HTTP endpoint.

##### SQS queue

Send notifications to an SQS queue to be read by a server.

#### Specify Lambda function

##### Choose from your Lambda functions

##### Enter Lambda function ARN

#### Lambda function

awscapsitonelambdafunction

Cancel

Save changes



Lambda fonksiyonumuza trigger ayarlayabiliriz

Olusturdumuz s3 eventini gorebiliriz

Trigger configuration

S3

Bucket

Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.

awscapstones3hamidblog

Event type

Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

All object create events

Prefix - optional

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.

e.g. images/

Suffix - optional

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.

e.g. .jpg

Lambda will add the necessary permissions for Amazon S3 to invoke your Lambda function from this trigger. Learn more about the Lambda permissions model.

Recursive invocation

If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. Learn more

I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.

Cancel Add

Yukarıdaki menuden devam etmemiz gerekiyordu ama hata aldık.  
Event otomatik geldiginden bir sey yapmadan devam ediyoruz

Triggers (1)

Trigger

S3: awscapstones3hamidblog

arn:aws:s3:::awscapstones3hamidblog

Event type: ObjectCreated, ObjectRemoved

Notification name: aws capstone S3 event

Prefix: media/

Suffix: None

Find triggers

Enable Disable Fix errors Delete Add trigger

Kodumuzu ekleyelim ve deploy edelim

```

1 import json
2 import boto3
3
4 def lambda_handler(event, context):
5 s3 = boto3.client("s3")
6
7 if event:
8 print("Event: ", event)
9 filename = str(event['Records'][0]['s3']['object']['key'])
10 timestamp = str(event['Records'][0]['eventTime'])
11 event_name = str(event['Records'][0][0]['eventName']).split(':')[0][6:]
12
13 filename1 = filename.split('/')
14 filename2 = filename1[-1]
15
16 dynamo_db = boto3.resource('dynamodb')
17 dynamoTable = dynamo_db.Table('awscapstoneDynamo')
18
19 dynamoTable.put_item(Item = {
20 'id': filename2,
21 'timestamp': timestamp,
22 'Event': event_name,
23 })
24
25 return "Lambda success"

```

```

import json
import boto3
def lambda_handler(event, context):
 s3 = boto3.client("s3")

 if event:
 print("Event: ", event)
 filename = str(event['Records'][0]['s3']['object']['key'])
 timestamp = str(event['Records'][0]['eventTime'])
 event_name = str(event['Records'][0]['eventName']).split(':')[0][6:]

 filename1 = filename.split('/')
 filename2 = filename1[-1]

 dynamo_db = boto3.resource('dynamodb')
 dynamoTable = dynamo_db.Table('awscapstoneDynamo')

 dynamoTable.put_item(Item = {
 'id': filename2,
 'timestamp': timestamp,
 'Event': event_name,
 })

 return "Lambda success"

```

## 17. Satır onemli isim uyusması gerekiyor



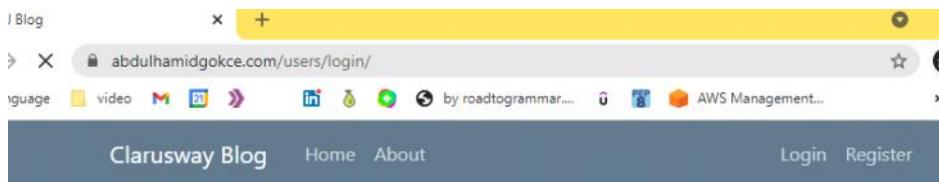
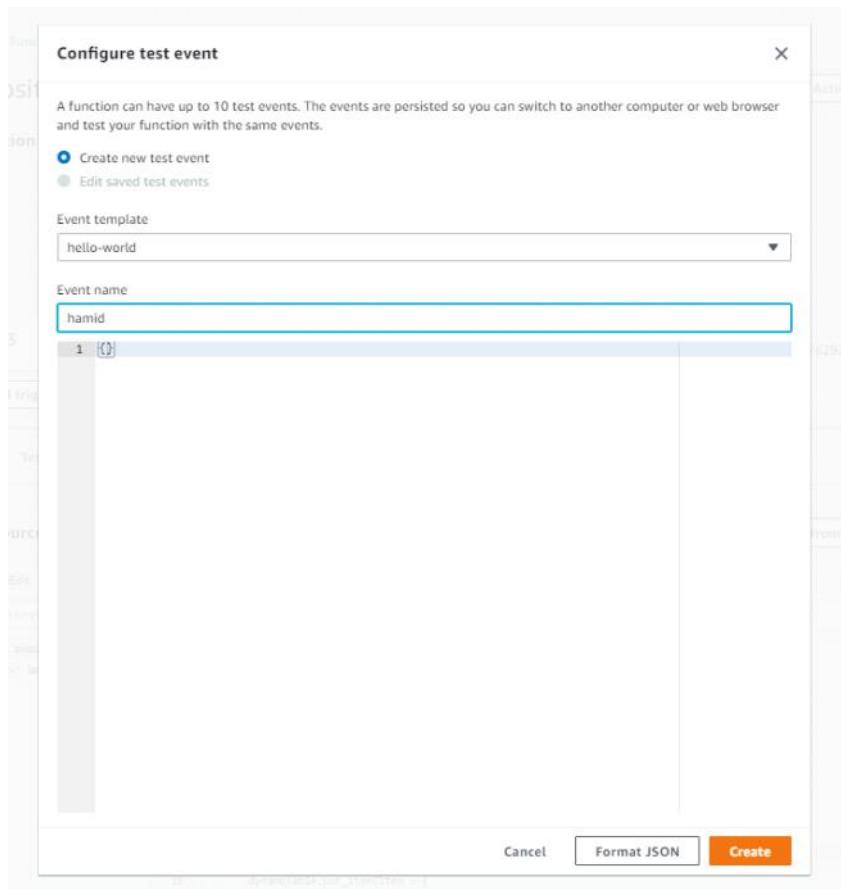
**Test edelim**

Execution results

| Test Event Name | hamid            |
|-----------------|------------------|
| Response        | "Lambda success" |

Function Logs

| START RequestId: | af63a7ce-b990-4b1e-83f6-0f6decc7be08 | Version:          | \$LATEST                                                                                        |
|------------------|--------------------------------------|-------------------|-------------------------------------------------------------------------------------------------|
| END RequestId:   | af63a7ce-b990-4b1e-83f6-0f6decc7be08 | REPORT RequestId: | af63a7ce-b990-4b1e-83f6-0f6decc7be08 Duration: 1232.41 ms Billed Duration: 1233 ms Memory Size: |
| Request ID       | af63a7ce-b990-4b1e-83f6-0f6decc7be08 |                   |                                                                                                 |



### Login

Username\*

Password\*

[Login](#) [Forgot Password?](#)

Need an account? [Sign Up Now](#)

Adresine girelim ve tekrar resim atalım

## Blog Post

Title\*

Content\*

buzaqi

Image\*

104.jpg

Category\*

Entertainment

Status\*

Published

Post created successfully!

## Clarusway Blog



**selam2**

hamster

0 0 0

Posted 1 hour, 15 minutes ago.

**inek**

buzagi

0 0 0

Posted 0 minutes ago.

```
| Click deploy and all set. go to the website and add a new post with photo, then
control if their record is written on DynamoDB.
- WE ALL SET
- Congratulations!! You have finished your AWS Capstone Project
```

**C8281-OFaruk** 6 minutes ago  
hocam mesele 1 post yazdin ve  
resim ekledin posta.ekledigin  
metin ve metadata RDS'te, resim  
ise s3te tutulacak. ayneten s3te  
yapilan her bir islem de  
dynamodb'e log olarak yazilacak

```
2 rds
3 s3
4 launch template
5 target group
6 road balance
7 as
8 clout front
9 end point
0 igw
1 subnet
2 routable
3 vpc
4
5
```

1. Lambda Function
2. RDS Subnet Group
3. RDS
4. CloudFront>>>>Disable>>>>Delete
5. DynamoDB
6. R53 healthcheck
7. R53 failover records
8. S3 buckets (first objects)
9. IAM roles
10. NAT instance >>>>terminate
11. ALB
12. TG
13. LT
14. ASG
15. Endpoint
16. internet gateway>>>>detach>>>>delete
17. subnets
18. private RT
19. VPC

Fom <<https://app.slack.com/client/T0227UVRJU8/C021BG84YJJ/thread/C021BG84YJJ-1629560020.495100>>