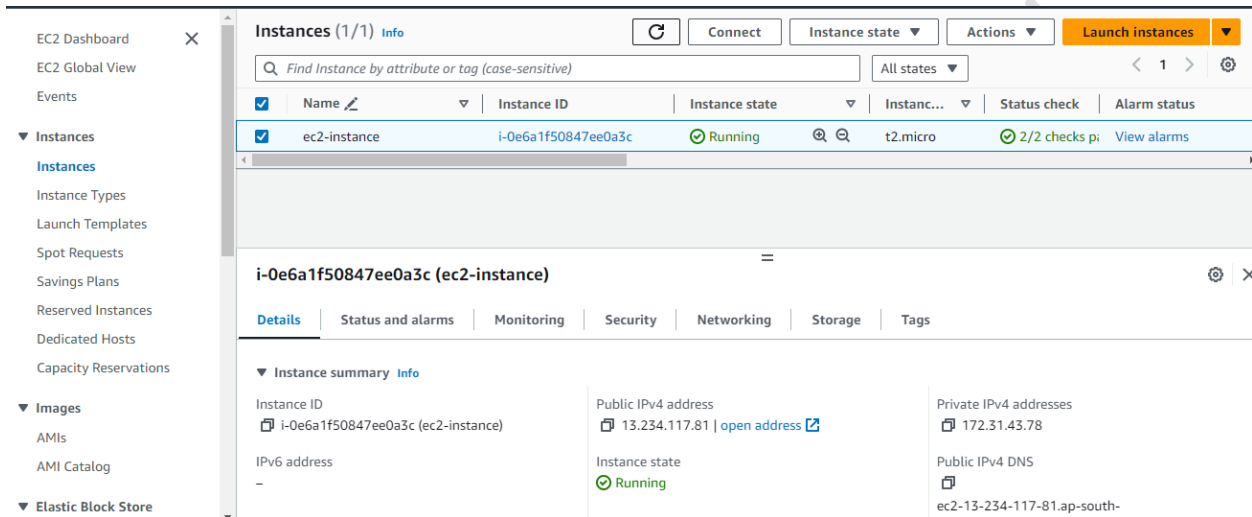


ROUTE 53 – CONFIGURE DNS ENTRIES IN ROUTE 53 WITH THE INSTANCE IP

Step 1: Create a EC2 instance



The screenshot displays the AWS Management Console 'Instances' page. A table lists the instance 'ec2-instance' with ID 'i-0e6a1f50847ee0a3c', state 'Running', and type 't2.micro'. Below the table, the 'Details' tab for this instance shows its public IPv4 address as 13.234.117.81 and its state as 'Running'.

Connect with the instance and install httpd service

```

EC2
Running scriptlet: httpd-2.4.59-2.amzn2023.x86_64
Verifying      : apr-1.7.2-2.amzn2023.0.2.x86_64
Verifying      : apr-util-1.6.3-1.amzn2023.0.1.x86_64
Verifying      : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
Verifying      : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
Verifying      : httpd-2.4.59-2.amzn2023.x86_64
Verifying      : httpd-core-2.4.59-2.amzn2023.x86_64
Verifying      : httpd-filesystem-2.4.59-2.amzn2023.noarch
Verifying      : httpd-tools-2.4.59-2.amzn2023.x86_64
Verifying      : libbrotli-1.0.9-4.amzn2023.0.2.x86_64
Verifying      : mailcap-2.1.49-3.amzn2023.0.3.noarch
Verifying      : mod_http2-2.0.27-1.amzn2023.0.2.x86_64
Verifying      : mod_lua-2.4.59-2.amzn2023.x86_64

Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64      apr-util-1.6.3-1.amzn2023.0.1.x86_64      apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch      httpd-2.4.59-2.amzn2023.x86_64      httpd-core-2.4.59-2.amzn2023.x86_64
httpd-filesystem-2.4.59-2.amzn2023.noarch      httpd-tools-2.4.59-2.amzn2023.x86_64      libbrotli-1.0.9-4.amzn2023.0.2.x86_64
mailcap-2.1.49-3.amzn2023.0.3.noarch      mod_http2-2.0.27-1.amzn2023.0.2.x86_64      mod_lua-2.4.59-2.amzn2023.x86_64

Complete!
[ec2-user@ip-172-31-43-78 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-43-78 ~]$
[ec2-user@ip-172-31-43-78 ~]$
  
```

i-0e6a1f50847ee0a3c (ec2-instance)

PublicIPs: 13.234.117.81 PrivateIPs: 172.31.43.78

```
EC2
Running scriptlet: httpd-2.4.59-2.amzn2023.x86_64
Verifying      : apr-1.7.2-2.amzn2023.0.2.x86_64
Verifying      : apr-util-1.6.3-1.amzn2023.0.1.x86_64
Verifying      : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
Verifying      : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
Verifying      : httpd-2.4.59-2.amzn2023.x86_64
Verifying      : httpd-core-2.4.59-2.amzn2023.x86_64
Verifying      : httpd-filesystem-2.4.59-2.amzn2023.noarch
Verifying      : httpd-tools-2.4.59-2.amzn2023.x86_64
Verifying      : libbrotli-1.0.9-4.amzn2023.0.2.x86_64
Verifying      : mailcap-2.1.49-3.amzn2023.0.3.noarch
Verifying      : mod_http2-2.0.27-1.amzn2023.0.2.x86_64
Verifying      : mod_lua-2.4.59-2.amzn2023.x86_64

Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64      apr-util-1.6.3-1.amzn2023.0.1.x86_64      apr-util-op
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch      httpd-2.4.59-2.amzn2023.x86_64      httpd-core-
httpd-filesystem-2.4.59-2.amzn2023.noarch      httpd-tools-2.4.59-2.amzn2023.x86_64      libbrotli-1
mailcap-2.1.49-3.amzn2023.0.3.noarch      mod_http2-2.0.27-1.amzn2023.0.2.x86_64      mod_lua-2.4

Complete!
[ec2-user@ip-172-31-43-78 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-43-78 ~]$ sudo vi /var/www/html/index.html
[ec2-user@ip-172-31-43-78 ~]$
```

Create a file

i-0e6a1f50847ee0a3c (ec2-instance)

PublicIPs: 13.234.117.81 PrivateIPs: 172.31.43.78

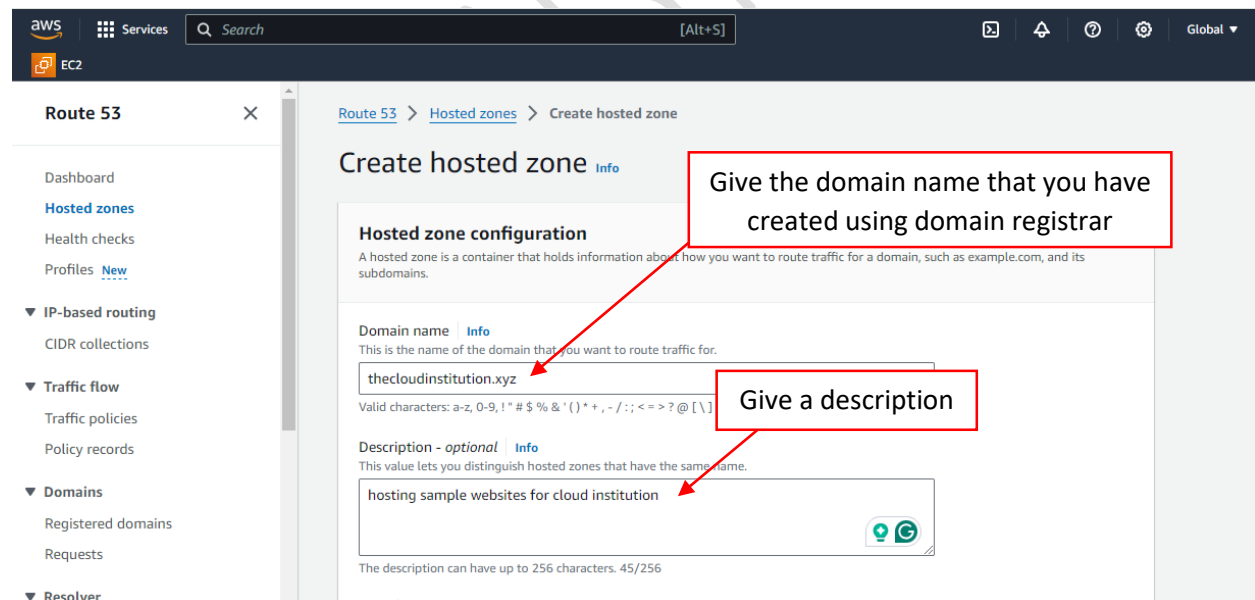
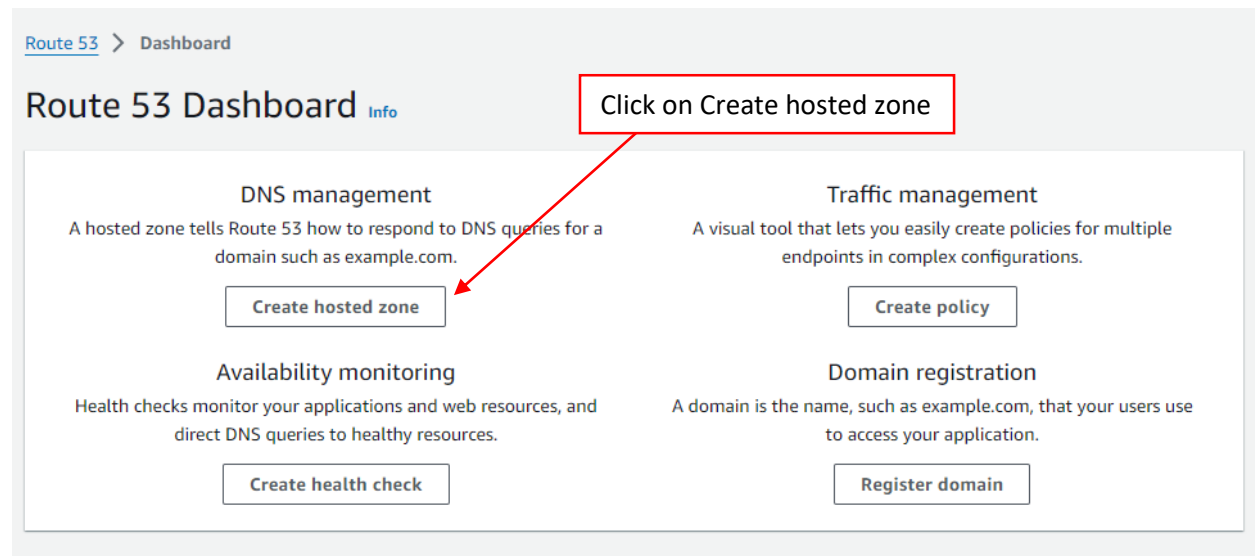
```
EC2
hi this is a sample message from cloud institution for route 53
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
-- INSERT --
```

Enter some data

i-0e6a1f50847ee0a3c (ec2-instance)

PublicIPs: 13.234.117.81 PrivateIPs: 172.31.43.78

Step 2: Now go to Route 53



Route 53

Dashboard
Hosted zones
 Health checks
 Profiles **New**

▼ IP-based routing
 CIDR collections

▼ Traffic flow
 Traffic policies
 Policy records

▼ Domains
 Registered domains
 Requests

▼ Resolver
 VPCs

The description can have up to 256 characters. 45/256

Type **Info**
 The type indicates whether you want to route traffic on the Internet or in a VPC.

☒ **Public hosted zone**
 A public hosted zone determines how traffic is routed on the Internet.

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

Tags **Info**
 Apply tags to hosted zones to help organize and identify them.

No tags associated with the resource.

Add tag
 You can add up to 50 more tags.

Cancel **Create hosted zone**

Select the public hosted zone

Now create hosted zone

Hosted zones created

Route 53

Dashboard
Hosted zones
 Health checks
 Profiles **New**

▼ IP-based routing
 CIDR collections

▼ Traffic flow
 Traffic policies
 Policy records

▼ Domains
 Registered domains
 Requests

▼ Resolver
 VPCs
 Inbound endpoints

Public thecloudinstitution.xyz **Info**

Delete zone Test record Configure query logging

Hosted zone details Edit hosted zone

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

Records (3) **Info**

Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

Filter records by property or value Type Routing pol... Alias < 1 > ©

	Record ...	Type	Routin...	Differ...	Alias	Value/Route traffic to	TTL (s...	Health ...
<input type="checkbox"/>	thecloudi...	NS	Simple	-	No	ns-160.awsdns-20.com. ns-1079.awsdns-06.org. ns-952.awsdns-55.net. ns-1636.awsdns-12.co.uk.	172800	-
<input type="checkbox"/>	thecloudi...	SOA	Simple	-	No	ns-160.awsdns-20.com. awsd...	900	-

Route 53

Public thecloudinstitution.xyz Info
Delete zone Test record Configure query logging

Hosted zone details
Edit hosted zone

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

Click on Create Record

Records (3) Info
Delete record Import zone file Create record

Filter records by property or value
Type Routing pol... Alias

	Record ...	Type	Routin...	Differ...	Alias	Value/Route traffic to	TTL (s...	Health ...
<input type="checkbox"/>	thecloudi...	A	Simple	-	No	13.234.117.81	60	-
<input type="checkbox"/>	thecloudi...	NS	Simple	-	No	ns-160.awsdns-20.com. ns-1079.awsdns-06.org. ns-952.awsdns-55.net. ns-1636.awsdns-12.co.uk.	172800	-
<input type="checkbox"/>	thecloudi...	SOA	Simple	-	No	ns-160.awsdns-20.com. awsd...	900	-

Route 53

Route 53 > Hosted zones > thecloudinstitution.xyz > Create record

Create record Info

Quick create record
Switch to wizard

Record 1
Delete

Record name Info
subdomain thecloudinstitution.xyz
Record type Info
A - Routes traffic to an IPv4 address and some AWS resources

Keep blank to create a record for the root domain.

Alias

Value Info
13.234.117.81

Enter the Public IP of the instance created

Enter multiple values on separate lines.

Route 53

Route 53 > Hosted zones > thecloudinstitution.xyz > Create record

Create record Info

Quick create record
Switch to wizard

Record 1
Delete

Record name Info
subdomain thecloudinstitution.xyz
Record type Info
A - Routes traffic to an IPv4 address and some AWS resources

Keep blank to create a record for the root domain.

Alias

Value Info
13.234.117.81

Enter multiple values on separate lines.

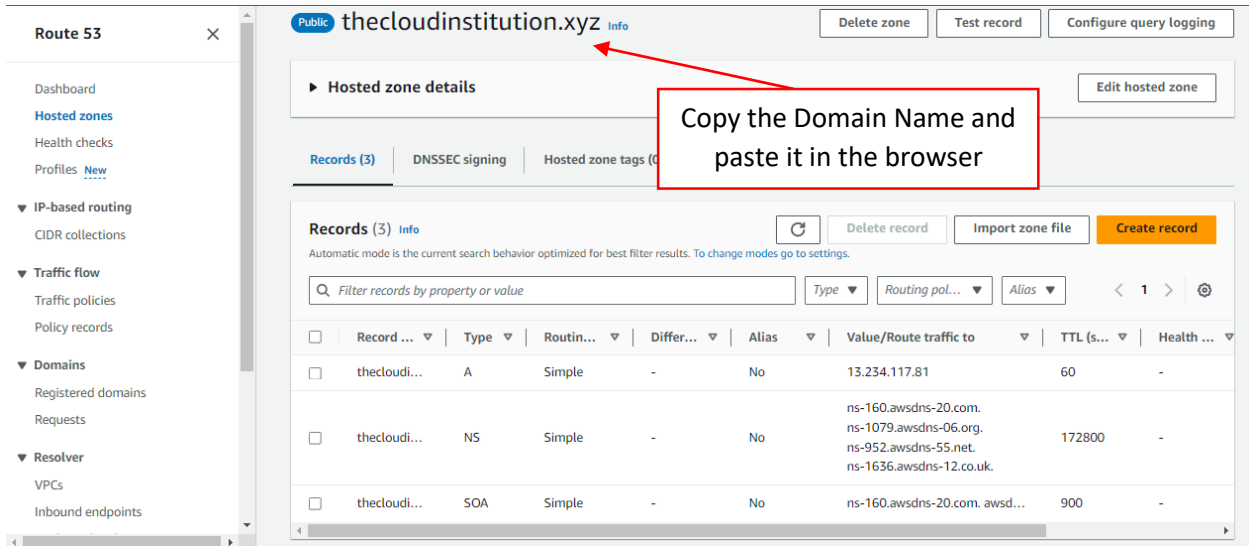
TTL (seconds) Info
60 +1m 1h 1d
Routing policy Info
Simple routing

Recommended values: 60 to 172800 (two days)

Click on Create

Cancel Create records

Record created



Route 53

Public thecloudinstitution.xyz Info

Delete zone Test record Configure query logging

Hosted zone details

Edit hosted zone

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

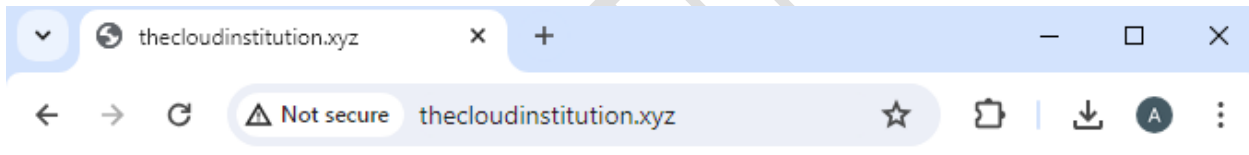
Records (3) Info

Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

Filter records by property or value

Type Routing pol... Alias

Record ...	Type	Routin...	Differ...	Alias	Value/Route traffic to	TTL (s...	Health ...
thecloudi...	A	Simple	-	No	13.234.117.81	60	-
thecloudi...	NS	Simple	-	No	ns-160.awsdns-20.com. ns-1079.awsdns-06.org. ns-952.awsdns-55.net. ns-1636.awsdns-12.co.uk.	172800	-
thecloudi...	SOA	Simple	-	No	ns-160.awsdns-20.com. awsd...	900	-



thecloudinstitution.xyz

Not secure thecloudinstitution.xyz

hi this is a sample messaage from cloud institution for route 53