

Steps to Connect Instances in Route 53 Using Different Routing Policies

NAME : T MANOJ

Create a Hosted Zone in Route 53

1. Log in to the AWS Management Console.
2. Go to Route 53.
3. Under Hosted Zones, either select an existing hosted zone or click Create Hosted Zone.
 - a. Enter your domain name
 - b. Click Create.

Configure IP-based Routing

1. In the Route 53 dashboard, click on your Hosted Zone.
2. Click Create Record.
3. Select Record Type as A – IPv4 address.
4. For Alias, choose No (for IP-based routing).
5. In the Value field, enter the IP address of CIDR Location.
6. Set Routing Policy to Simple.
7. Click Create records.
8. Test the Connection with commands NSLOOKUP domainname.

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CIDR collections (1) [Info](#)

A CIDR collection contains locations that hold IP address ranges in CIDR notation.

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Collection name	ARN
ip	arn:aws:route53:::cidrcollection/58ca804d-ca2e-c71f-301d-29c2556f2e23

View detailsDeleteCreate CIDR collection

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Records (4) [Info](#)

[Delete record](#)[Import zone file](#)[Create record](#)

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

Filter records by property or valueTypeRouting p...Alias

< 1 >

Record ...	Type	Routin...	Differ...	Alias	Val
<input type="checkbox"/> manojcon...	A	IP-based	* (Defaul...	No	100
<input type="checkbox"/> manojcon...	A	IP-based	chennai	No	44.
<input type="checkbox"/> manojcon...	NS	Simple	-	No	ns-

0 records selected

Select a record to see its details

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```
C:\Users\T Manoj>nslookup manojconnects.space
Server: UnKnown
Address: 192.168.131.181
```

```
Non-authoritative answer:
Name:    manojconnects.space
Address: 100.24.3.86
```

```
C:\Users\T Manoj>nslookup manojconnects.space
Server: UnKnown
Address: 192.168.131.181
```

```
Non-authoritative answer:
Name:    manojconnects.space
Address: 100.24.3.86
```

```
C:\Users\T Manoj>nslookup manojconnects.space
Server: dns.google
Address: 8.8.8.8
```

```
Non-authoritative answer:
Name:    manojconnects.space
Address: 44.211.210.86
```

```
C:\Users\T Manoj>nslookup manojconnects.space
Server: dns.google
Address: 8.8.8.8
```

```
Non-authoritative answer:
Name:    manojconnects.space
Address: 52.201.224.222
```

Configure Geoproximity Routing

1. In the Route 53 dashboard, under your hosted zone, click Create Record.
2. Choose A – IPv4 address.
3. For Alias, select No.
4. Enter the IP address of your EC2 instance in the Value field.
5. Set the Routing Policy to Geoproximity.
 - a. Choose the Region and set the Geoproximity radius to control traffic routing.
6. Click Create records.

The screenshot shows the AWS Route 53 console interface for creating a new record. The breadcrumb navigation at the top indicates the path: Route 53 > Hosted zones > manojconnects.space > Create record. The form is titled 'Value' and contains the following fields:

- Value:** A text input field containing the IP address '100.24.3.86'. Below the field, it says 'Enter multiple values on separate lines.'
- TTL (seconds):** A text input field containing '300'. To its right are three buttons: '1m', '1h', and '1d'. Below the field, it says 'Recommended values: 60 to 172800 (two days)'.
- Routing policy:** A dropdown menu with 'Geoproximity' selected.
- Endpoint location type:** A dropdown menu with 'AWS Region' selected.
- Location:** A dropdown menu with 'Asia Pacific (Hyderabad)' selected.
- Bias:** A text input field containing '18'. Below the field, it says 'Bias must be within the range of -99 and 99.' and provides a link to 'Learn more about how bias affects geoproximity routing.'
- Health check ID - optional:** A text input field with a placeholder 'Choose health check' and a circular refresh icon to its right.

The footer of the console shows 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates, along with links for 'Privacy', 'Terms', and 'Cookie preferences'.

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Create record

Alias

Value

Info

44.204.184.100

Enter multiple values on separate lines.

TTL (seconds)

Info

300

1m

1h

1d

Recommended values: 60 to 172800 (two days)

Routing policy

Info

Geoproximity

Endpoint location type

AWS Region

Location

Asia Pacific (Mumbai)

Bias

Bias is used to expand or shrink the size of the geographic area from which Route 53 routes traffic to a resource. A positive bias will expand whereas a negative bias will shrink. [Learn more about how bias affects geoproximity routing.](#)

18

Bias must be within the range of -99 and 99.

Health check ID - optional

Info

Choose health check

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Create record

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

Filter records by property or value

Type

Routing p...

Alias

< 1 >

Record ...	Type	Routin...	Differ...	Alias	Val
<input type="checkbox"/> manojcon...	A	Geoproxi...	ap-sout...	No	44.;
<input type="checkbox"/> manojcon...	A	Geoproxi...	ap-sout...	No	100
<input type="checkbox"/> manojcon...	NS	Simple	-	No	ns-
<input type="checkbox"/> manojcon...	SOA	Simple	-	No	ns-

0 records selected

Select a record to see its details

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```
Command Prompt
This Is
C:\Users\T Manoj>nslookup manojconnects.space
Server: UnKnown
Address: 192.168.131.181

Non-authoritative answer:
Name: manojconnects.space
Address: 100.24.3.86

C:\Users\T Manoj>nslookup manojconnects.space
Server: UnKnown
Address: 192.168.131.181

Non-authoritative answer:
Name: manojconnects.space
Address: 100.24.3.86

C:\Users\T Manoj>
```

Configure Multivalue Answer Routing

1. In the Route 53 dashboard, under your hosted zone, click Create Record.
2. Choose A – IPv4 address.
3. Set Alias to No.
4. Enter the IP address of the EC2 instance in the Value field.
5. Set Routing Policy to Multivalue Answer.
6. Optionally, configure Health Checks if desired.
7. Click Create records.

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Route 53 > Hosted zones > manojconnects.space

Route 53

- Dashboard
- Hosted zones**
- Health checks
- Profiles [New](#)

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- CIDR collections

▼ **Traffic flow**

- Traffic policies
- Policy records

▼ **Domains**

- Registered domains
- Requests

▼ **Resolver**

- VPDs

Records for manojconnects.space were successfully created.
Route 53 propagates your changes to all of the Route 53 authoritative DNS servers within 60 seconds. Use "View status" button to check propagation status.

[View status](#)

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

Record name	Type	Routing policy	Differs from	Alias	Value/Route traffic
manojcon...	A	Multivalu...	-	No	44.202.14.19
manojcon...	A	Multivalu...	-	No	100.24.3.86
manojcon...	A	Multivalu...	-	No	44.204.184.100
manojcon...	NS	Simple	-	No	ns-1083.awsdns-07. ns-789.awsdns-34.m ns-220.awsdns-27.c ns-1537.awsdns-00.
manojcon...	SOA	Simple	-	No	ns-1083.awsdns-07.

0 records selected Select a record to see its details

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```

C:\Users\T Manoj>nslookup manojconnects.space
Server:      UnKnown
Address:     192.168.0.1

Non-authoritative answer:
Name:   manojconnects.space
Addresses:  44.204.184.100
            100.24.3.86
            44.202.14.19

C:\Users\T Manoj>nslookup manojconnects.space
Server:      UnKnown
Address:     192.168.0.1

Non-authoritative answer:
Name:   manojconnects.space
Addresses:  44.204.184.100
            100.24.3.86
            44.202.14.19

```