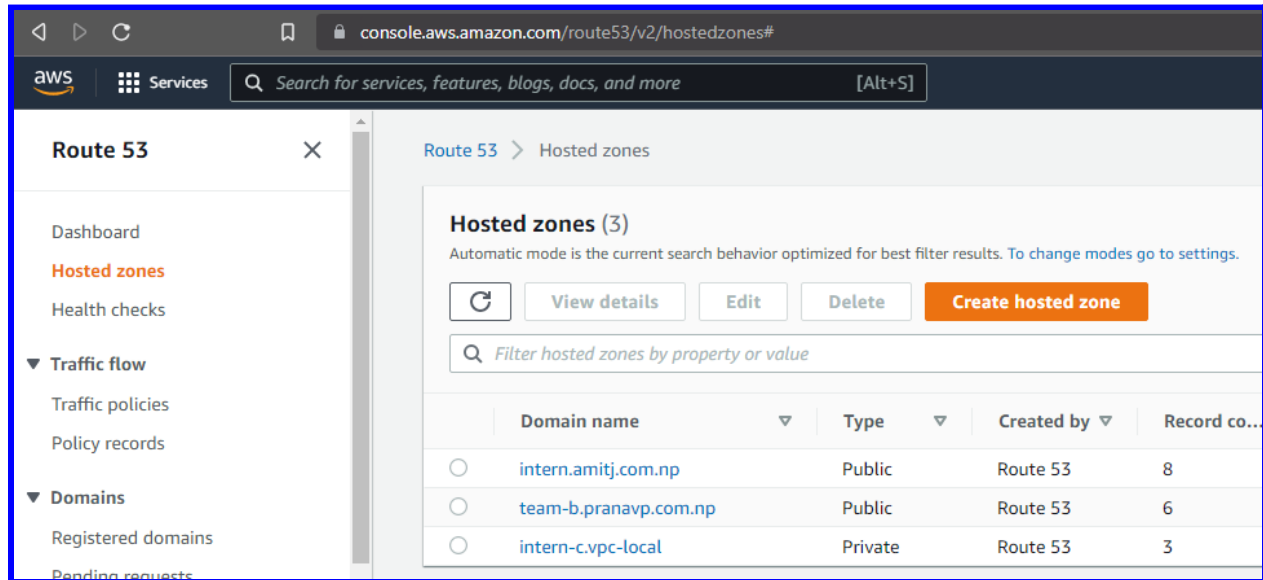


(Optional) Create Private Route53 with domain <team-name>.vpc-local and attach it to your VPC with DNS resolve enabled.

Route53 Home Page



Creating private hosted zone "team-d.VPC-local"

The screenshot shows the 'Create hosted zone' page in the AWS Route 53 console. The breadcrumb trail is 'Route 53 > Hosted zones > Create hosted zone'. The page title is 'Create hosted zone' with an 'Info' link. The 'Hosted zone configuration' section explains that a hosted zone is a container for routing information. The 'Domain name' field is labeled 'Info' and contains 'team-d.vpc-local'. Below it, a note states 'Valid characters: a-z, 0-9, ! " # \$ % & ' () * + , - / : ; < = > ? @ [\] ^ _ ` { | } . ~'. The 'Description - optional' field is labeled 'Info' and contains 'creating vp-local hosted zone for team D'. A note indicates 'The description can have up to 256 characters. 40/256'. The 'Type' section has two options: 'Public hosted zone' (selected with a radio button) and 'Private hosted zone' (selected with a radio button). The 'Private hosted zone' option is highlighted with a blue border and includes the text 'A private hosted zone determines how traffic is routed within an Amazon VPC.'

Attaching to our VPC **Team-D-VPC**

Type [Info](#)
The type indicates whether you want to route traffic on the internet or in an Amazon VPC.

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

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

VPCs to associate with the hosted zone [Info](#)
To use this hosted zone to resolve DNS queries for one or more VPCs, choose the VPCs. To associate a VPC with a hosted zone when the VPC was created using a different AWS account, you must use a programmatic method, such as the AWS CLI.

For each VPC that you associate with a private hosted zone, you must set the Amazon VPC settings `enableDnsHostnames` and `enableDnsSupport` to true.

Region [Info](#)
US East (Ohio) [us-east-2]

VPC ID [Info](#)

Remove VPC

Add VPC

Successfully created Private Hosted zone **team-d.VPC-local**

team-d.vpc-local was successfully created.
Now you can create records in the hosted zone to specify how you want Route 53 to route traffic for your domain.

Records (2)

Hosted zone tags (1)

Records (2) [Info](#)
Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

< 1 >

| <input type="checkbox"/> | Record name | Type | Routin... | Differ... | Value/Route traffic to |
|--------------------------|------------------|------|-----------|-----------|--|
| <input type="checkbox"/> | team-d.vpc-local | NS | Simple | - | ns-1536.awsdns-00.co.uk. ns-0.awsdns-00.com. ns-1024.awsdns-00.org. ns-512.awsdns-00.net. |
| <input type="checkbox"/> | team-d.vpc-local | SOA | Simple | - | ns-1536.awsdns-00.co.uk. awsdns-hostmaster.amazon.com. 1 7200 900 12096 |

Creating Record “ec2.team-d.vpc-local” and mapping with private subnet’s ec2 IP

Route 53 > Hosted zones > team-d.vpc-local > Create record

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

▼ Record 1 Delete

Record name [Info](#) Record type [Info](#) Value [Info](#) ☐ Alias

ec2 .team-d.vpc-local PTR – Maps an IP address to a domain name 10.15.32.111

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

TTL (seconds) [Info](#) Routing policy [Info](#)

300 Simple routing

1m 1h 1d

Recommended values: 60 to 172800 (two days)

[Add another record](#)

[Cancel](#) [Create records](#)

Done

Records (3) Hosted zone tags (1)

Records (3) [Info](#)

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

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

Type Routing policy Alias < 1 > ⚙️

| <input type="checkbox"/> | Record name | Type | Routin... | Differ... | Value/Route traffic to |
|--------------------------|----------------------|------|-----------|-----------|--|
| <input type="checkbox"/> | team-d.vpc-local | NS | Simple | - | ns-1536.awsdns-00.co.uk. ns-0.awsdns-00.com. ns-1024.awsdns-00.org. ns-512.awsdns-00.net. |
| <input type="checkbox"/> | team-d.vpc-local | SOA | Simple | - | ns-1536.awsdns-00.co.uk. awsdns-hostmaster.amazon.com. 1 7200 900 12096 |
| <input type="checkbox"/> | ec2.team-d.vpc-local | PTR | Simple | - | 10.15.32.111 |

Enabling DNS Hostnames in VPC Team-D-VPC

Your VPCs (1/3) [Info](#) [Refresh](#) [Actions](#) [Create VPC](#)

| <input type="checkbox"/> | Name | VPC ID | State | IPv4 CIDR |
|-------------------------------------|------------|-----------------------|-----------|---------------|
| <input type="checkbox"/> | Team-B-VPC | vpc-0129bda0428def1cf | Available | 10.15.16.0/22 |
| <input checked="" type="checkbox"/> | Team-D-VPC | vpc-0537baf72f80d5930 | Available | 10.15.32.0/22 |
| <input type="checkbox"/> | - | vpc-077c7747a9076e6ae | Available | 172.31.0.0/16 |


[Create default VPC](#)
[Create flow log](#)
[Edit CIDRs](#)
[Edit DHCP options set](#)
[Edit DNS hostnames](#)
[Edit DNS resolution](#)
[Manage middlebox routes](#)
[Manage tags](#)

Enabling and saving the changes

VPC > Your VPCs > vpc-0537baf72f80d5930 > Edit DNS hostnames

Edit DNS hostnames [Info](#)

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

| | |
|---|--|
| VPC ID | DNS hostnames |
|  vpc-0537baf72f80d5930 | <input checked="" type="checkbox"/> Enable |


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

We can see the details of VPC and DNS Hostname enabled successfully

✔ DNS hostnames successfully updated. ✕

Your VPCs (1/3) [Info](#) 🔄 Actions ▼ [Create VPC](#)

| <input type="checkbox"/> | Name | VPC ID | State | IPv4 CIDR | IPv6 CIDR |
|-------------------------------------|------------|-----------------------|-------------|---------------|-----------|
| <input type="checkbox"/> | Team-B-VPC | vpc-0129bda0428def1cf | ✔ Available | 10.15.16.0/22 | – |
| <input checked="" type="checkbox"/> | Team-D-VPC | vpc-0537baf72f80d5930 | ✔ Available | 10.15.32.0/22 | – |

| | | | |
|---|------------------------|-----------------------|-----------------------|
| VPC ID | State | DNS hostnames | DNS resolution |
|  vpc-0537baf72f80d5930 | ✔ Available | Enabled | Enabled |
| Tenancy | DHCP options set | Main route table | Main network ACL |
| Default | dopt-0dbb64d8ec97c5e0e | rtb-07774796230288822 | acl-07aaeb662a9ae1bd6 |
| Default VPC | IPv4 CIDR | IPv6 pool | IPv6 CIDR |
| No | 10.15.32.0/22 | – | – |

Downloading Telnet in EC2 launched in the public Subnet

```
Transaction Summary
=====
Install 1 Package

Total download size: 64 k
Installed size: 109 k
Is this ok [y/d/N]: y
Downloading packages:
telnet-0.17-65.amzn2.x86_64.rpm
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : 1:telnet-0.17-65.amzn2.x86_64
  Verifying  : 1:telnet-0.17-65.amzn2.x86_64

Installed:
  telnet.x86_64 1:0.17-65.amzn2

Complete!
[ec2-user@ip-10-15-32-4 ~]$
```

Successfully connected with connecting to the host name record mapping to EC2 in private Subnet

```
[ec2-user@ip-10-15-32-4 ~]$ telnet ec2.team-d.vpc-local 22
Trying 10.15.32.111...
Connected to ec2.team-d.vpc-local.
Escape character is '^]'.
SSH-2.0-OpenSSH_7.4
█
```