



# DNS Provider (AWS)

Avi Technical Reference (v17.1)

Copyright © 2018

# DNS Provider (AWS)

[view online](#)

Avi Vantage integrates with Amazon Web Services (AWS) to provide DNS services to applications running on instances in AWS.

Note:

- AWS Cloud in Avi supports AWS DNS by enabling *route53\_integration* in the cloud configuration and doesn't require this DNS profile configuration.
- A separate DNS provider configuration (as described below) is required only for cases where AWS provides the infrastructure service for *other* clouds (e.g., Mesos Cluster running on AWS instances).
- AWS DNS is supported only for North-South DNS Provider.

See also: [Service Discovery Using IPAM and DNS](#).

## DNS Configuration

Step 1. To use AWS as the DNS provider, one of the following types of credentials is required:

- Identity and Access Management (IAM) roles: Set of policies that define access to resources within AWS
- AWS customer account key: Unique authentication key associated with the AWS account

Step 1a. If Using IAM Role

*If using the IAM role method to define access for an Avi Vantage installation in AWS, use the steps in [this article](#) to set up the IAM roles before beginning deployment of the Avi Controller EC2 instance.*

Select ?AWS Route 53 DNS? as type and ?Use IAM Roles?.

### New IPAM/DNS Profile: aws-northsouth-dns ✕

Name\* ?  
aws-northsouth-dns

Type ?  
AWS Route 53 DNS ▾

---

#### AWS Profile Configuration

Use IAM Roles     Use Access Keys

Region\*  
US-West (Oregon) ▾

Access AWS through Proxy

Use Cross-Account AssumeRole ?

Next

#### Step 1b. If Using Access Key

Select AWS, then select Use Access Keys and enter the following information:

- Access Key ID: AWS customer key ID.
- Secret Access Key: customer key.

### New IPAM/DNS Profile: aws-northsouth-dns ✕

Name\* ?

Type ?

---

#### AWS Profile Configuration

Use IAM Roles     Use Access Keys

Access Key ID\*     Secret Access Key\*

Region\*

Access AWS through Proxy  
 Use Cross-Account AssumeRole ?

Next

- Select the AWS region into which the VIPs will be deployed.
- Select ?Access AWS through Proxy? if access to AWS endpoints requires a proxy server.

Access AWS through Proxy

Proxy Host\* ?     Proxy Port\* ?

Proxy Username ?     Proxy Password ?

- Select ?Use Cross-Account AssumeRole? if the AWS credentials or role is being leveraged to access across accounts. Read [AWS Cross-Account AssumeRole Support](#) for details. Click Next.

Step 2. A dropdown of available VPCs in that region is displayed.

- Select the appropriate VPC.
- A dropdown of available domain names associated with that VPC are displayed. Configure at least one domain for virtual service's FQDN registration with Route 53.
- Click Save.

### New IPAM/DNS Profile: aws-northsouth-dns ✕

Name\* ⓘ  
aws-northsouth-dns

Type ⓘ  
AWS Route 53 DNS

---

#### AWS Profile Configuration

VPC\* ⓘ  
AVI-WEST2-VPC - 10.144.0.0/16

Usable Domain  
eng.awsavi.net ✕ ▼ 🗑️

Usable Domain  
demo.awsavi.net ✕ ▼ 🗑️

Previous Save