



DNS Provider (AWS)

Avi Technical Reference (v18.1)

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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