



IPAM Provider (AWS)

Avi Technical Reference (v20.1)

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Avi Vantage integrates with Amazon Web Services (AWS) for providing IPAM services to applications running on instances in AWS.

Note: * If the Avi Vantage cloud type is AWS, there is support for IPAM, by default, without need for a separate IPAM configuration. * A separate IPAM 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 IPAM is supported only for North-South IPAM Provider. See also: [Service Discovery Using IPAM and DNS](#)

IPAM Configuration

Step 1. To use AWS as the IPAM 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 IPAM" as type and "Use IAM Roles."

New IPAM/DNS Profile: aws-northsouth-dns

Name*

Type

AWS Profile Configuration

Use IAM Roles Use Access Keys

Region*

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-ipam

Name*

aws-northsouth-ipam

Type

AWS IPAM

AWS Profile Configuration

Use IAM Roles Use Access Keys

Access Key ID*

Secret Access Key*

Region*

US-West (Oregon)

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*

10.10.28.2

Proxy Port*

80

Proxy Username

avi

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 availability zones (AZ) in that region and a corresponding list of networks in each AZ are displayed. For [multi-AZ virtual service applications](#), configure at least one network from each AZ for IPAM.
- Click Save.

New IPAM/DNS Profile: aws-northsouth-ipam ✕

Name* ?
aws-northsouth-ipam

Type ?
AWS IPAM

AWS Profile Configuration

VPC* ?
AVI-WEST2-VPC - 10.144.0.0/16

Availability Zone ? us-west-2a ✕ ▼	Usable Network ? 2A-nw-1 ✕ ▼ 🗑️
Availability Zone ? us-west-2b ✕ ▼	Usable Network ? 2B-nw-1 ✕ ▼ 🗑️
Availability Zone ? us-west-2c ✕ ▼	Usable Network ? 2C-nw-1 ✕ ▼ 🗑️

[Add Usable Network](#)

Previous Save