

# Service Network

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## Introduction

The following document describes the Service Network and how you can get your AWS Account VPC attached to the Service Network.

## What is the Service Network?

The Service Network is a private network that allows AWS Account VPC's to access services in other AWS Account VPC's and OldProd. It consists of

a Cloud Wan Attachment to connect accounts together, a Private NAT Gateway that provides network translation between accounts to avoid subnet overlap, and DNS routing for private services between AWS Account VPC's and OldProd. The aforementioned components are provisioned in each AWS Account to provide private communication. The necessary components already exist in OldProd, but these components are not provisioned by default at the current time in each new AWS Account that is created and requires a request for a Service Network attachment.

## What does the Service Network architecture look like?

### Substrate Network Architecture with Service Network

This architecture diagram shows the networking components of a single [availability zone](#) of a dev account that's created and has been updated to use the Service Network. The same infrastructure is created for the live account as well.

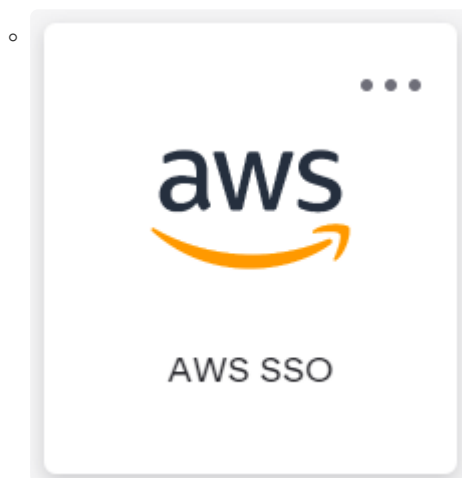
Specifically the components in the diagram that will be of interest are the CWA Attachment and the PNAT Gateway.



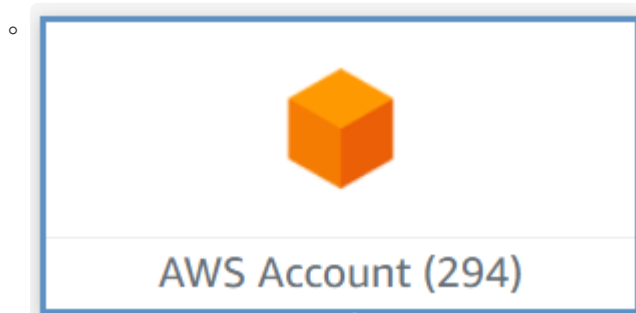
# How do I verify my AWS Account VPC is attached to the Service Network?

To verify a Substrate account or other AWS account has a Service Network connection, perform the following.

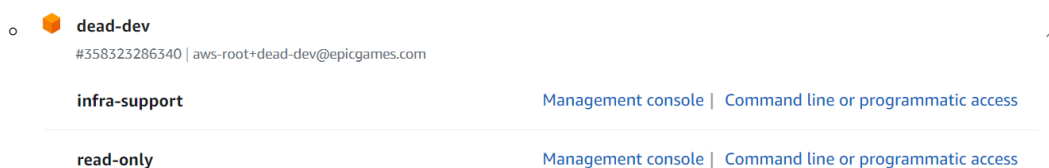
1. Login to the [Okta Dashboard](#).
2. Click on the **AWS** tile in the dashboard.



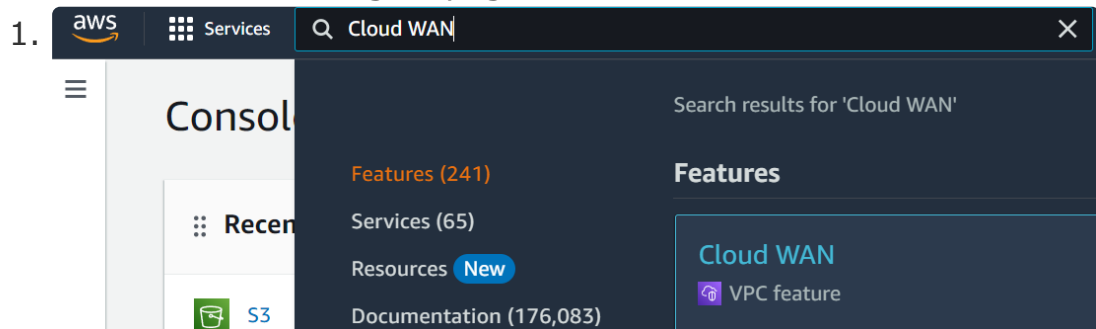
3. When the AWS window opens click the **AWS Account(x)** tile to see a list of accounts you have access to.



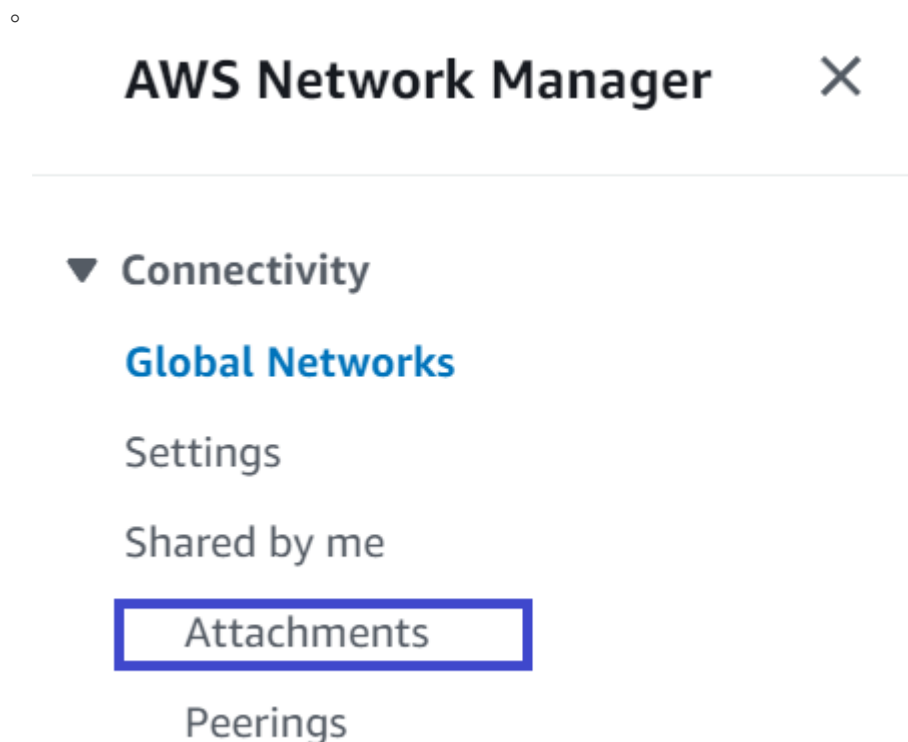
4. Click on the account and choose the profile which you want to log in with. (Ex. **read-only**, **infra-support**, **devops**, etc...)



5. From the **Console Home** page, place your cursor in the Search field and type "Cloud WAN," then click **Cloud Wan**. This will bring you to the "AWS Network Manager" page.



6. In the left hand navigation of the "AWS Network Manager" page, you should see a tree list for "Connectivity" and under that an item for "Shared by me." Click **Attachments** under "Shared by me."




7. You should now see a list of network attachments. If you are connected to the Service Network, you will see an attachment and the Core Network it is attached to should be **core-network-0400e6dd924d936fb** and the status should be Available.  
Note: You will need to scroll to the right to see the Core Network

field. If there are no attachments, then the account is not connected to the Service Network yet.

○ Attachments (1)

Attachment ID	Name	Edge location	Resource type	Resource ID	State	Core network	Core network state
attachment-00741cc5020842e47	ecbc-live-ecbc-live-k8s-cluster-default...	us-east-1	VPC	vpc-0132d90ef4c711289	Available	core-network-0400e6dd924d936fb	Shared

## How do I get my AWS Account VPC attached to the Service Network?


If you have already verified that your AWS Account VPC is not attached to the Service Network, you can reach out to  [#cloud-network-ext](#) and provide them with the AWS Account name. For example `aaaa-dev` or `aaaa-live`.

## How do I manage traffic to and from my account over the Service Network?

Please refer to the following articles for managing traffic to and from your account over the Service Network:

- [Managing inbound traffic to your application](#)
- [Managing outbound traffic from your application](#)

# Where do I get Service Network support?

For questions or support reach out to  [#cloud-ops-support-ext](#).

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