

# Networking

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Date: 2025-07-12 04:08:03

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Document Level Classification

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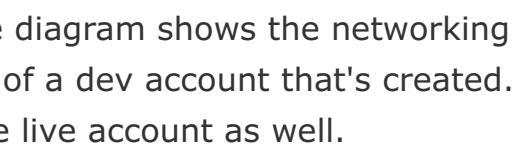
Substrate accounts, by default, have an Amazon Virtual Private Cloud (Amazon VPC) and associated resources (subnets, route tables, NAT gateways, internet gateways, etc.) provisioned and configured.

## Components of a Substrate Network

- Subnets deployed across at least three Availability Zones (AZs).
- Internet Gateway to allow inbound traffic from the internet.
- NAT Gateways to allow outbound traffic to the internet.
- *Public* subnets intended for resources that receive inbound traffic from the internet.
- *NAT* subnets that allow outbound traffic to the internet (via the NAT Gateway) and other external (to the VPC) endpoints.
- *Private* subnets that are routable only within the VPC.

- Gateway VPC Endpoints for Amazon S3 and DynamoDB.
- Interface VPC Endpoints that provide connectivity to GitHub Enterprise, Artifactory and other common applications.
- Dedicated DNS zone and subdomain for the Substrate account.
- Service Network for private communication between other Substrate VPC's, OldProd, Epic Offices, and Epic VPN.

## Network Architecture Diagram

This architecture diagram shows the networking components of a single  of a dev account that's created. The same infrastructure is created for the live account as well.

## 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.



# Network Customization

A Substrate account is provisioned with the components listed above. Additional components and/or network routing is possible. To customize network configurations and architecture for your workloads, reach out via slack in [#cloud-ops-support-ext](#).

## Common use cases

Choose from the following topics to learn more about common use cases and tasks for your workloads:

- [Advanced Networking for Substrate](#)
- [Managing inbound traffic to your application](#)
- [Managing outbound traffic from your application](#)
- [Managing traffic between applications in your Substrate cluster](#)
- [Accessing RDS Databases and EC2 Instances with Teleport](#)
- [Creating an ACM certificate in your Substrate account](#)
- [Controlling your Load Balancer in Kubernetes](#)
- [Service Network](#)
- [Using DNS in your Substrate Cluster](#)

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Page ID: 81068468

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