# Configuring Vault Server for High Availability

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# Overview

High availability components

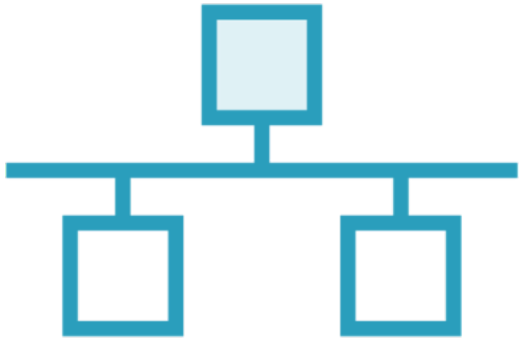
Vault cluster behavior

Configuring HA for Vault

# High Availability Components

Storage

Server



Network

# Storage

**HashiCorp Supported**

- Consul

**Community Supported**

- DynamoDB
- Etcd
- FoundationDB
- Google Cloud Spanner
- Google Cloud Storage
- MySQL
- Zookeeper

# Server

Lock based in datastore

Active and standby

No performance benefit

Forward or redirect

Different storage for HA

# Network Components

Listener
cluster_address

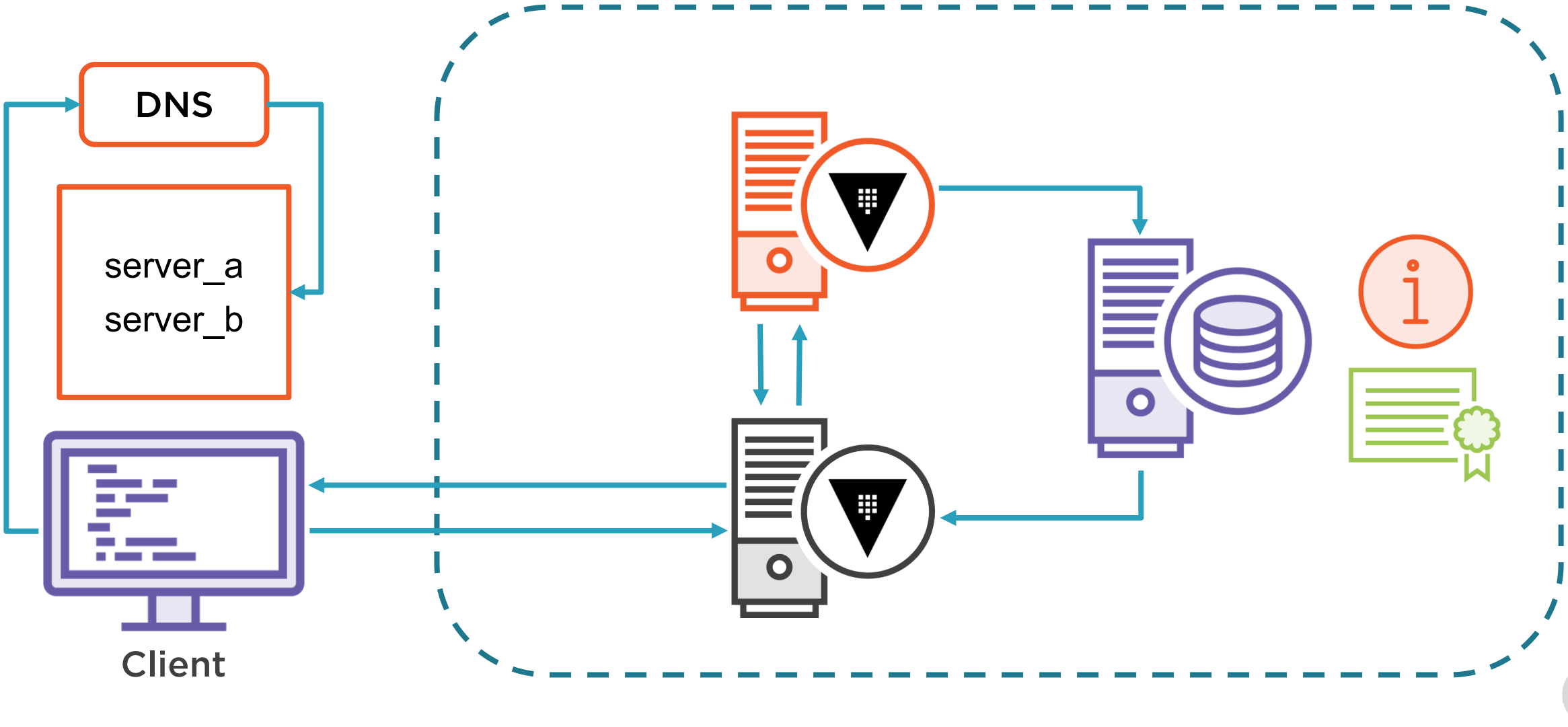
Node
cluster_addr

Node
api_addr

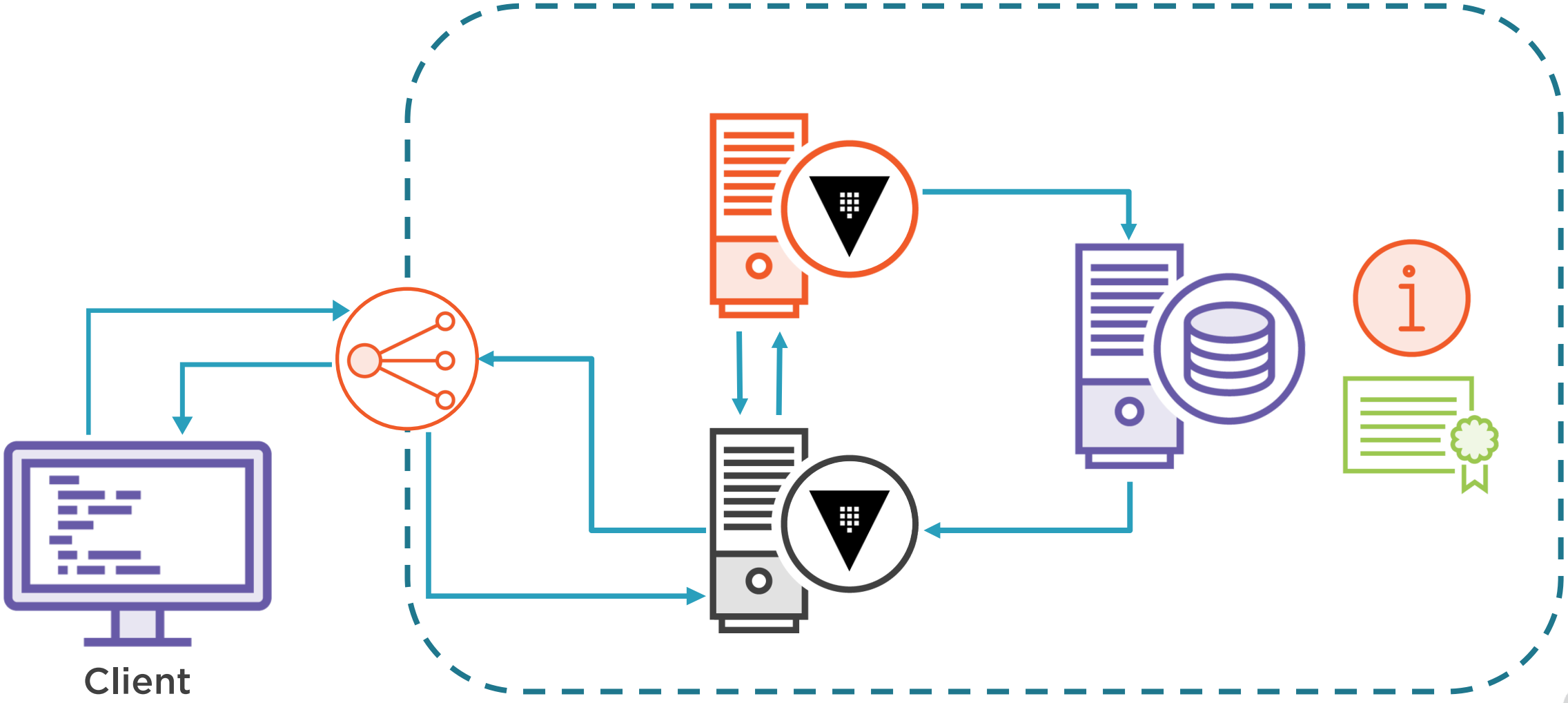
Direct access

Load balancer

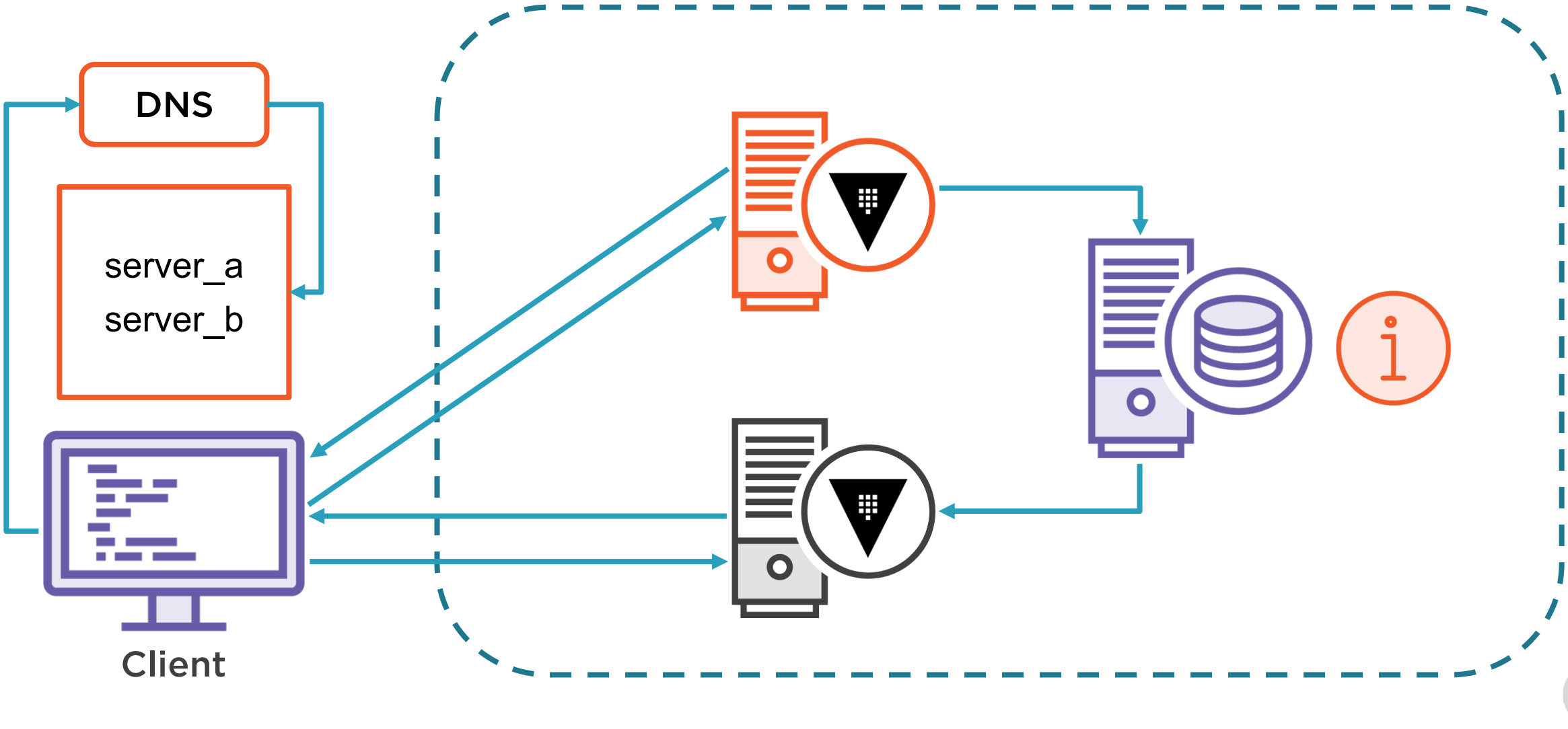
# Network Traffic - Request Forwarding



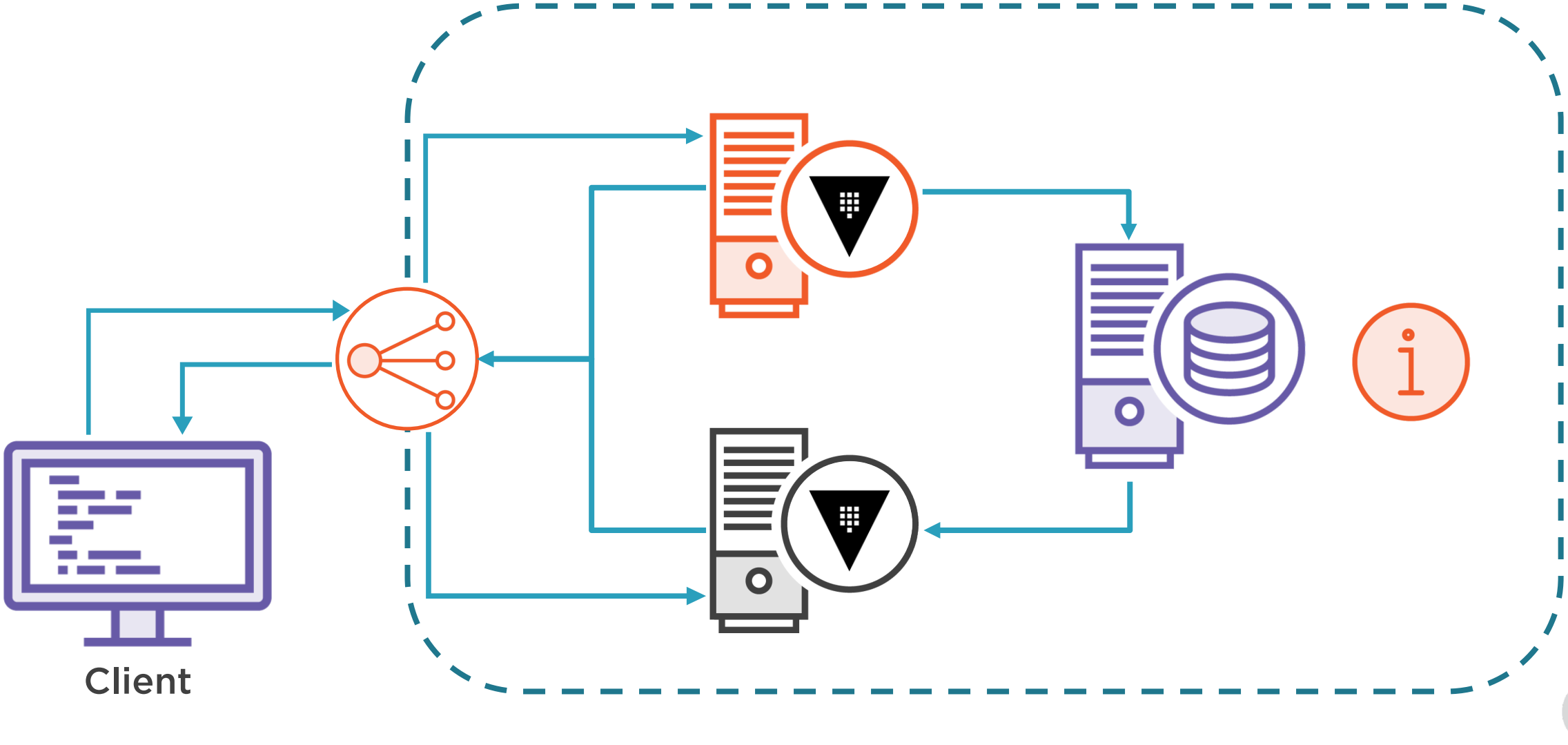
# Network Traffic - Request Forwarding



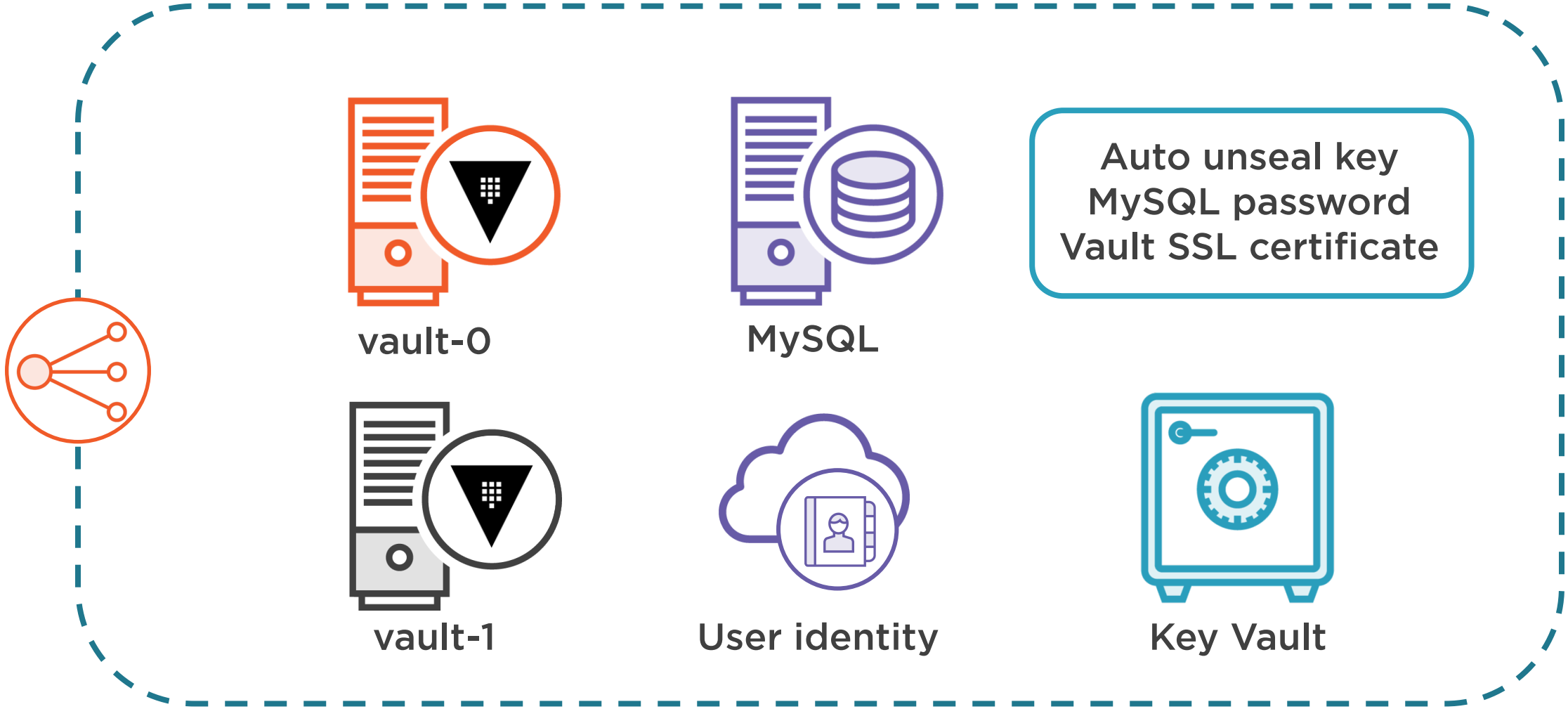
# Network Traffic – Client Redirection



# Network Traffic – Client Redirection



# Vault HA Setup



# Vault Server Configuration

```
listener "tcp" {

  address = "0.0.0.0:8200"
  cluster_address = "X.X.X.X:8201"

}

storage "mysql" {

  ha_enabled = "true"

}

api_addr = "https://vault.globomantics.xyz:8200"
cluster_addr = "https://X.X.X.X:8201"
```

# Summary

**Storage matters in HA**

**Be mindful of your network**

**HA doesn't improve performance**

**Coming up:**

- Performing Vault Server Backup and Restore