**Overview:**

Vault is a sensitive data management tool.

Chart, diagram

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**Use Cases:**

* Secret Management

Chart

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* Data Encryption (EaaS)

A picture containing box and whisker chart

Description automatically generated

* Identity and Access Management (IAM)

Graphical user interface, text, application

Description automatically generated

**Hardware Requirements (VMs & k8s):**

Table

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**Network Requirements (VMs & k8s):**

Table

Description automatically generated

**Infrastructure Design Vault with Consul Storage (VMs & k8s):**

Diagram

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**Infrastructure Design Vault with Integrated Storage (VMs & k8s):**

Diagram

Description automatically generated

**Datacenter Design Vault with Consul Storage (VMs):**

- Deployment of Vault in one Availability Zone (OSS)

Diagram

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- Deployment of Vault in two Availability Zones (OSS)

Diagram

Description automatically generated

- Deployment of Vault in three Availability Zones (OSS)

Diagram

Description automatically generated

**Datacenter Design Vault with Integrated Storage (VMs):**

- Deployment of Vault in one Availability Zone (OSS)

**Diagram, schematic

Description automatically generated**

- Deployment of Vault in two Availability Zones (OSS)

**Diagram

Description automatically generated**

- Deployment of Vault in three Availability Zones (OSS)

**Diagram

Description automatically generated**

**Datacenter Design Vault with Consul Storage (k8s):**

- Deployment of Vault in one Availability Zone (OSS)

- Deployment of Vault in two Availability Zones (OSS)

- Deployment of Vault in three Availability Zones (OSS)

Graphical user interface, text, application, chat or text message

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**Production Readiness Checklist (VMs):**

**Production Readiness Checklist (k8s):**

**Networking (VMs):**

**Networking (k8s):**

**Monitoring & Failure Recovery (VMs):**

**Monitoring & Failure Recovery (k8s):**

**Security (VMs):**

- End-to-End TLS

- Single Tenancy

- Firewall traffic

- Disable SSH / Remote Desktop

- Disable Swap

- Don't Run as Root

- Turn Off Core Dumps

- Immutable Upgrades

- Avoid Root Tokens

- Enable Auditing

- Upgrade Frequently

- Configure SELinux / AppArmor

- Restrict Storage Access

- Disable Shell Command History

- Tweak ulimits

- Docker Containers

- No Clear Text Credentials

**Security (k8s):**

- End-to-End TLS

- Single vs. Multi Tenancy Runtimes

- Don't Run as Root

- Turn Off Core Dumps

- Ensure mlock is Enabled

- Container Supervisor