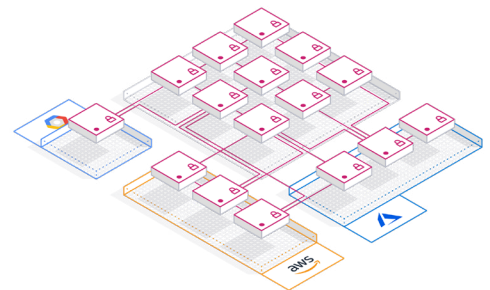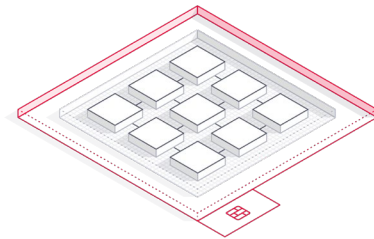# Consul

Service Mesh Made Easy

A distributed service mesh to connect, secure, and configure services across any runtime platform and public or private cloud.

Service-based networking **for dynamic infrastructure**

Static Infrastructure

Managing connectivity between microservices while safeguarding service traffic in a dynamic infrastructure is challenging in the cloud era.

Traditional Approach

• Load balancers to create artificial static IPs

• Firewall sprawl to constrict service traffic

• Configuration management to deploy services

Dynamic Infrastructure

HashiCorp Consul provides a distributed service networking layer to connect, secure and configure services across any runtime platform.

Consul Approach

• Service Discovery for connectivity

• Service Segmentation for security

• Service Configuration for runtime configuration

Consul **Use Cases**

Service Discovery

Service registry, integrated health checks, and DNS and HTTP interfaces enable any service to discover and be discovered by other services.
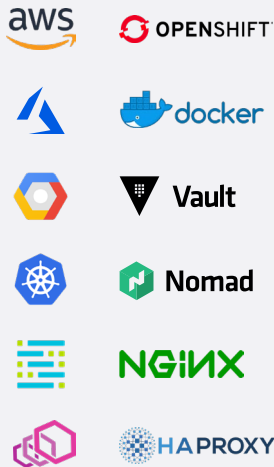
Service Segmentation

Secure service-to-service communication with automatic TLS encryption and identity-based authorization.

Service Configuration

Feature rich key/value store to easily configure services across a distributed infrastructure in real-time.

Consul **Benefits**

Reduce cost

Eliminate the cost of procuring and managing east-west load balancers and firewalls which are difficult to operate at scale.

Increase Productivity

Developers can rollout new services, scale up and down, gracefully handle failure, and configure services at runtime without operator intervention.

Reduce Risk

Security team can easily enforce consistent security policies across a heterogeneous environment with 100x fewer security rules to manage.

Compare Offerings

	Open Source	Enterprise Pro	Enterprise Premium
	Individuals	Teams	Organizations
Multi-DC Service Discovery	✓	✓	✓
Health Checks	✓	✓	✓
Key/Value Storage	✓	✓	✓
Edge-Trigger	✓	✓	✓
Single-DC Service Segmentation	✓	✓	✓
Built-in Web UI	✓	✓	✓
Automated Upgrades		✓	✓
Automated Backups		✓	✓
Enhanced Read Scalability		✓	✓
Network Segments		✓	✓
Silver Support: 9x5 w/ SLA		✓	✓
Multi-DC Service Segmentation			✓
Redundancy Zones			✓
Advanced Federation			✓
Sentinel Policy as Code			✓
Gold Support: 24x7 w/ SLA			✓