Hashicorp's Cloud Operating Model

HashiCorp

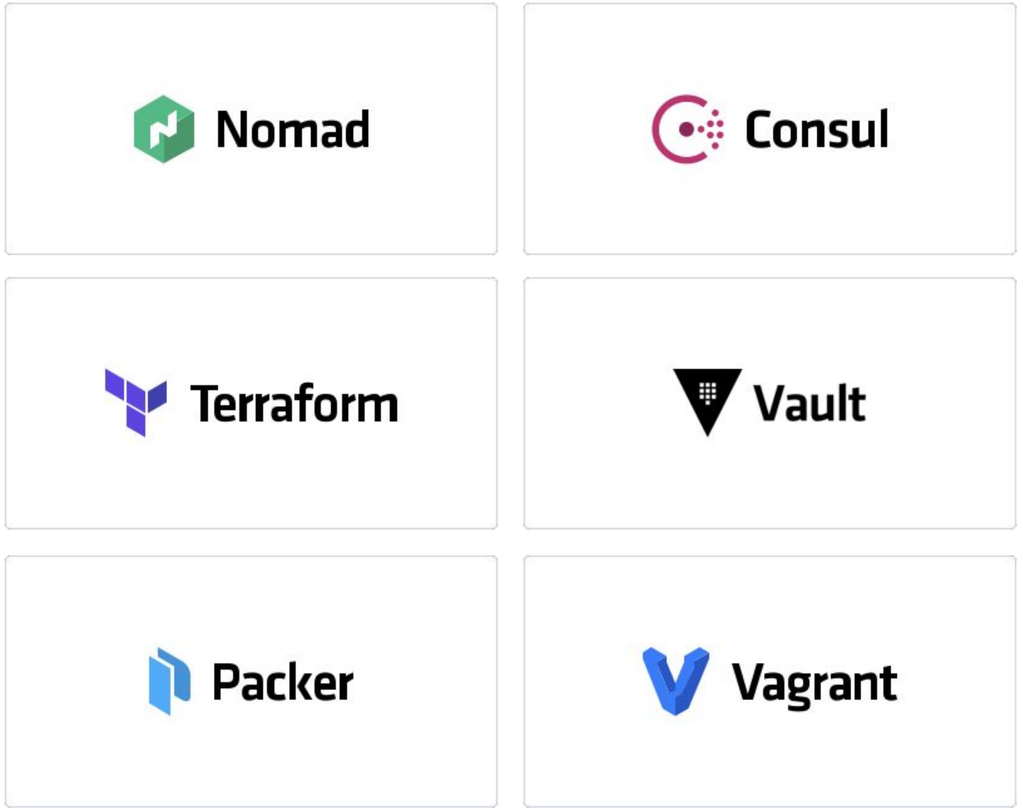


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https://www.linkedin.com/in/jboero

Company Overview

Founded in 2012 by Mitchell Hashimoto and Armon Dadgar

Enabling the Cloud Operating Model Provision, Secure, Connect, and Run any infrastructure for any application



The Transition to Dynamic Infrastructure

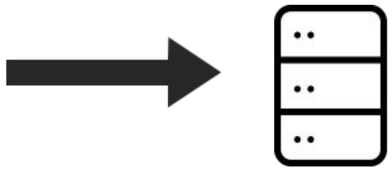
- Cloud and Hybrid / Multi-Cloud

Traditional Datacenter

"Static/Fixed"



Dedicated Infrastructure



Private Cloud

Modern Datacenter

"Dynamic"



AWS + Azure + GCP + ...

The Hybrid / Multi Cloud Landscape



	STATIC / FIXED	DYNAMIC			
	Dedicated	**Private Cloud**	**AWS**	**Azure**	**GCP**
Run Development	vSphere	vSphere	EKS/ECS Lambda	AKS/ACS Azure Functions	GKE Cloud Functions
Connect Networking	Hardware	Various Hardware	Proprietary	Proprietary	Proprietary
Secure Security	**IP**: Hardware	**Identity**: AD/LDAP	**Identity**: AWS IAM	**Identity**: Azure AD	**Identity**: GCP IAM
Provision Operations	vCenter	vSphere	EC2/S3 AWS Functions	AKS/ACS Azure Functions	GKE Cloud Functions

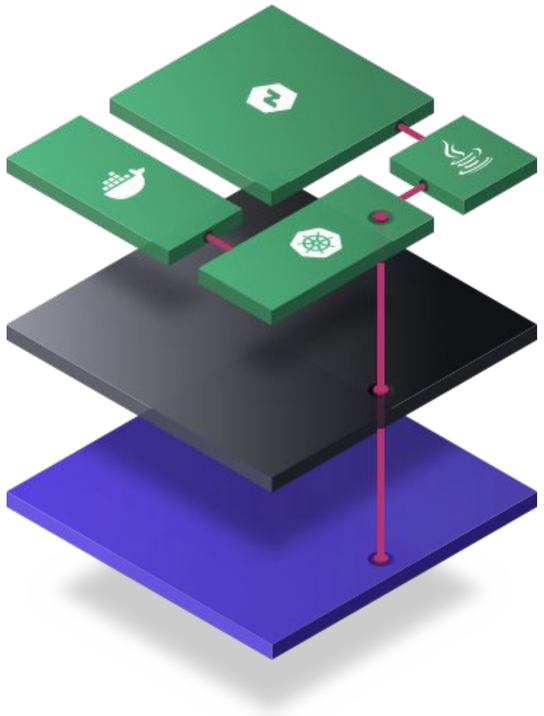
A Common Operating Model with the HashiCorp Suite

Run
Development

Connect
Networking

Secure
Security

Provision
Operations



Private Cloud | AWS | Azure | GCP

Nomad

C++

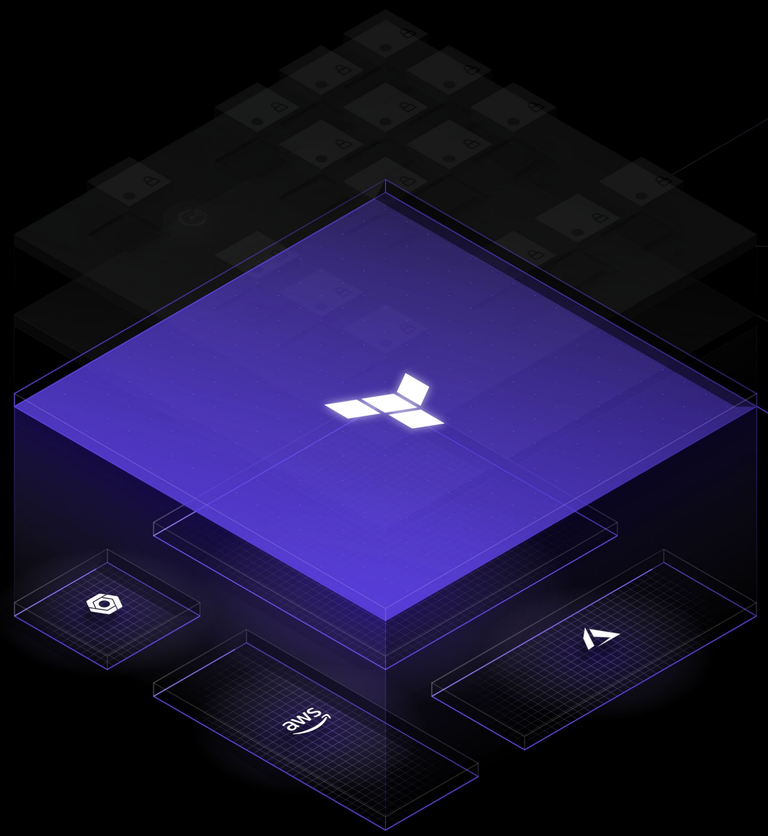
Consul

Vault

Terraform

Terraform

An infrastructure as code approach to provision for any cloud, infrastructure, or service.



Networking
Connect infrastructure and applications

Development
Run applications

Security
Secure Infrastructure and applications

Operations
Provision Infrastructure

Cloud Security with Vault

A common Cloud Operating Model

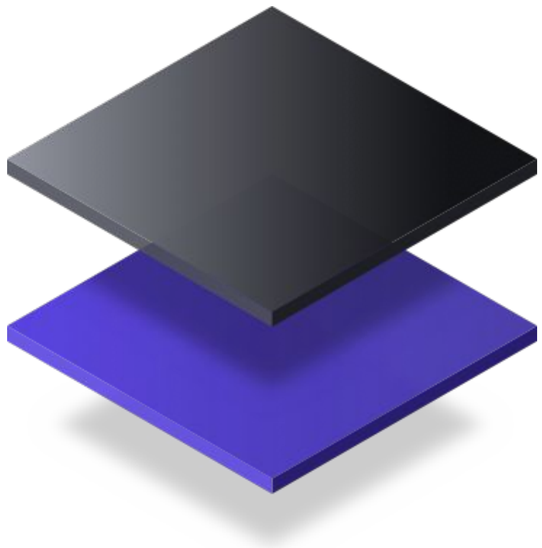
Private Cloud **AWS** **Azure** **GCP**

Run
Development

Connect
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Security

Provision
Operations



Vault

Terraform

Vault

Static + Dynamic Secrets

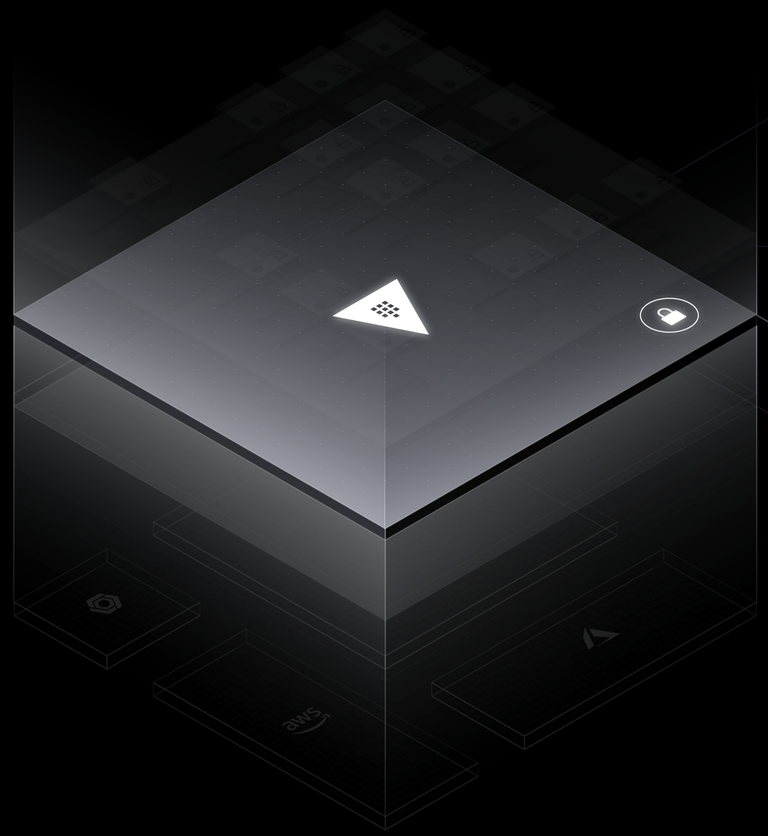
Static Key / Value

Dynamically generate and revoke:

PKI TLS Certs
SSH Certs
Database Credentials
Cloud IAM Roles
Encryption Keys
Encryption as a Service
More..

Authenticate via:

User / Pass
LDAP / SAML / KMIP
Cloud or Container Service Account
Token / JWT



Networking
Connect infrastructure and applications

Development
Run applications

Security
Secure Infrastructure and applications

Operations
Provision Infrastructure

Cloud Networking with Consul

A common Cloud Operating Model

Private Cloud **AWS** **Azure** **GCP**

Run
Development

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Provision
Operations



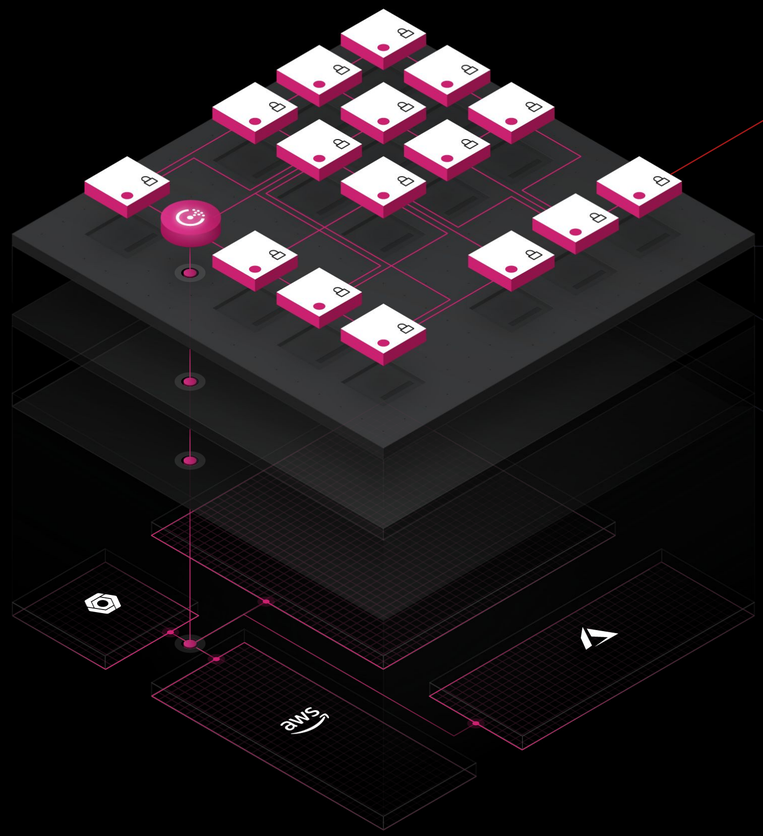
Consul

Vault

Terraform

Consul

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



Networking
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Cloud Scheduling with Nomad

A common Cloud Operating Model



Run
Development

Connect
Networking

Secure
Security

Provision
Operations

Private Cloud AWS Azure GCP

Nomad

C++

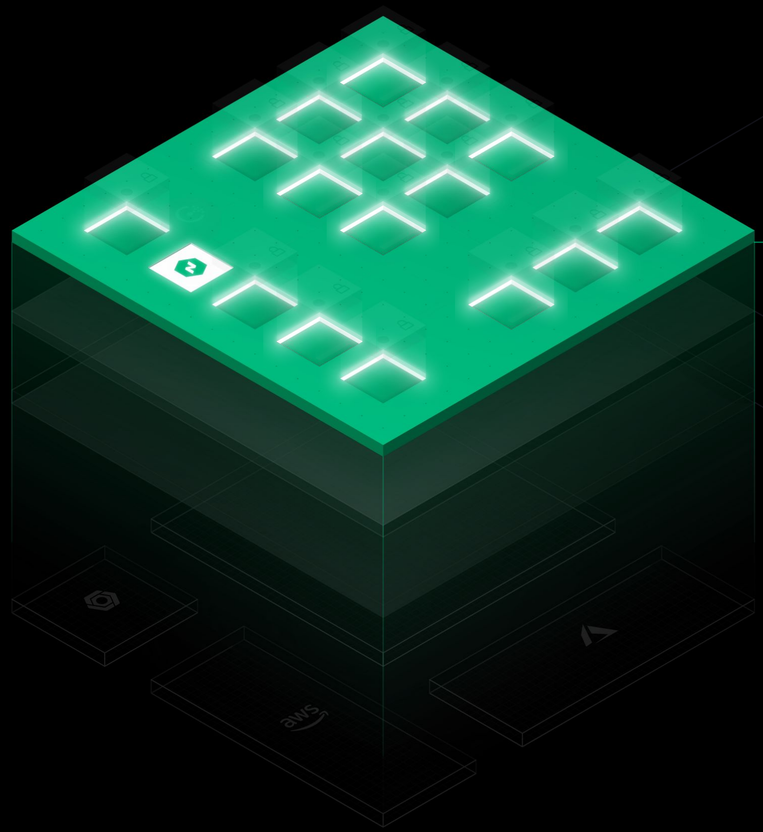
Consul

Vault

Terraform

Nomad

Flexible Workload Orchestration to deploy and manage any containerized, legacy, or batch application



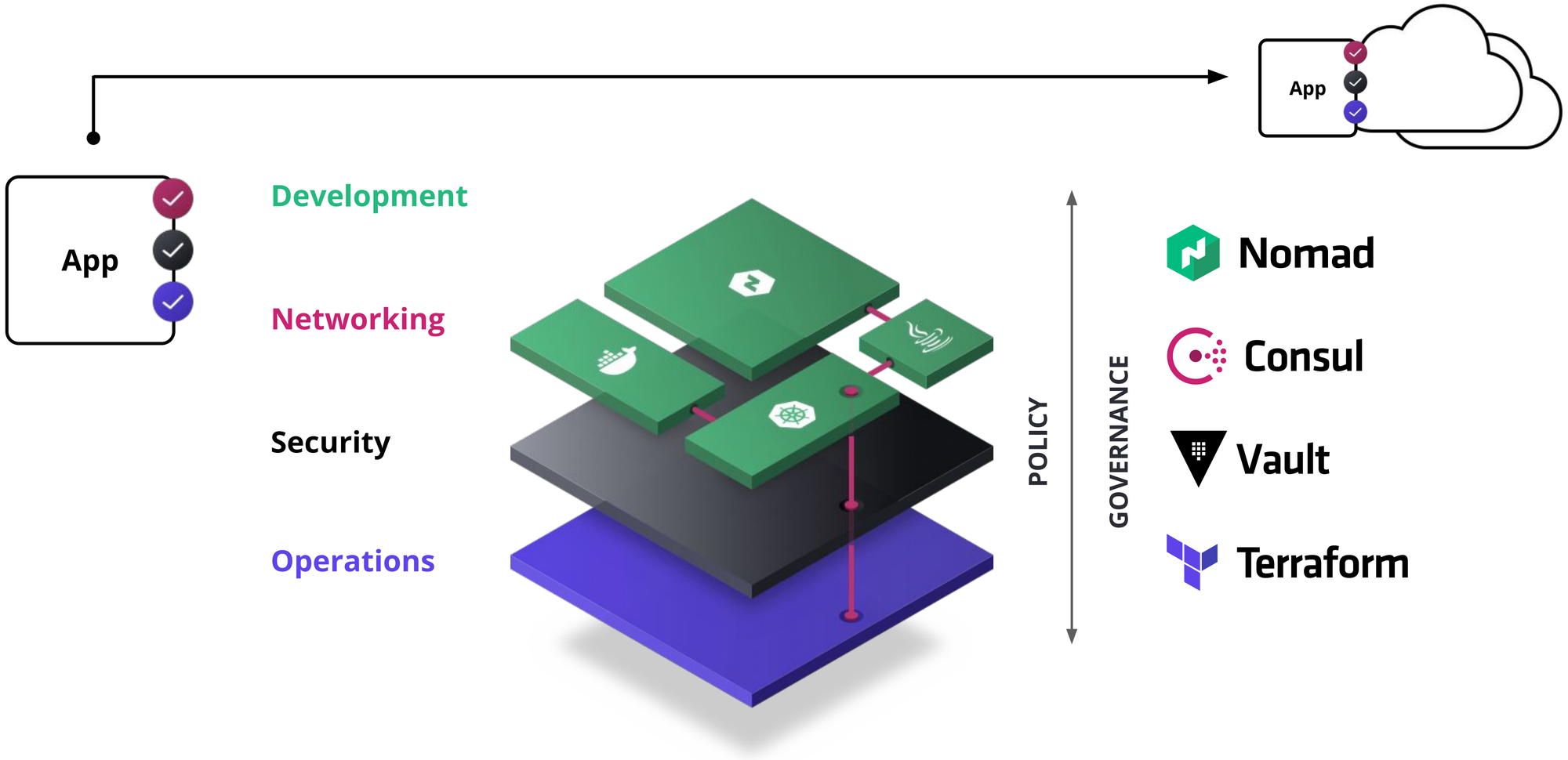
Networking
Connect infrastructure and applications

Development
Run applications

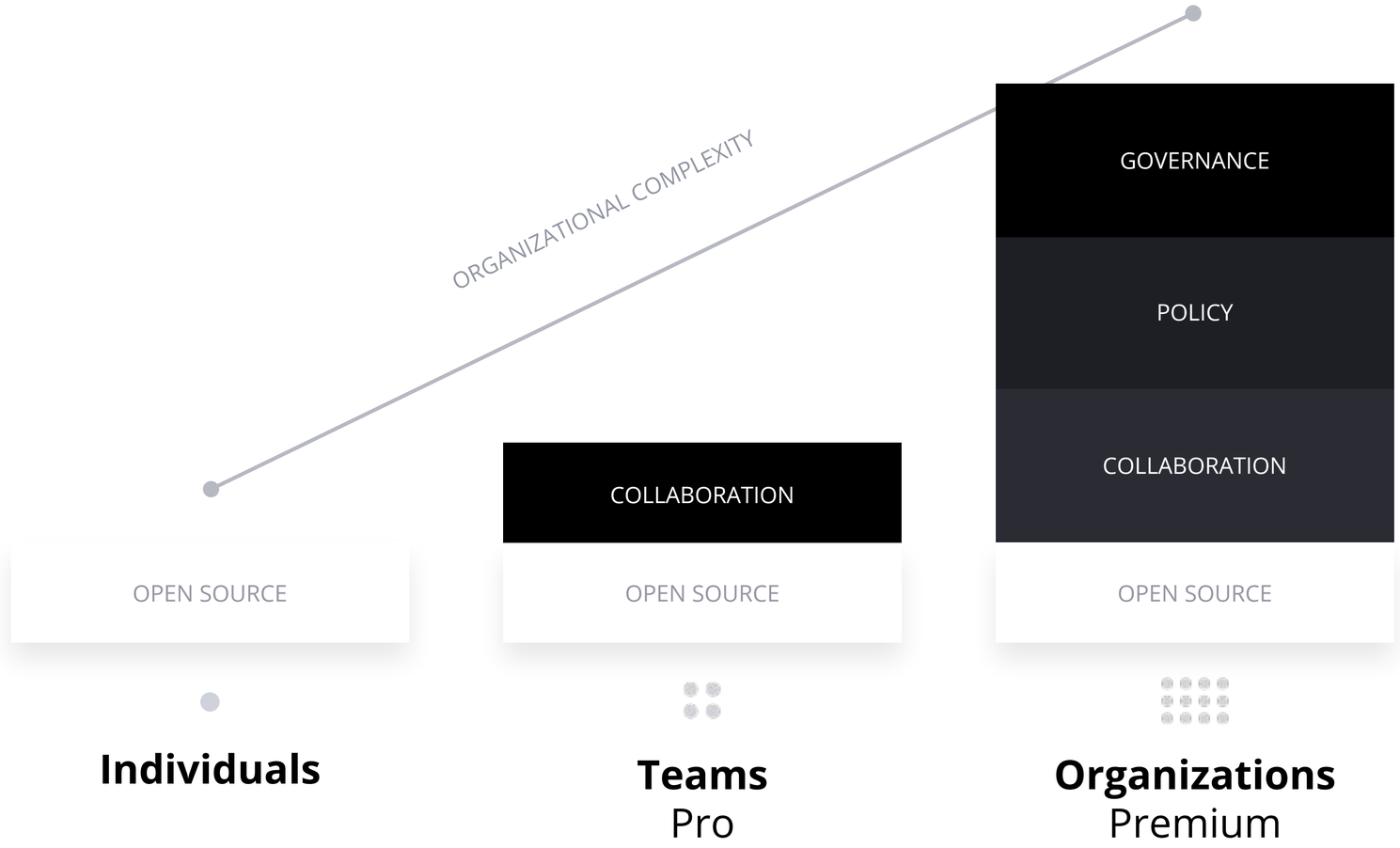
Security
Secure Infrastructure and applications

Operations
Provision Infrastructure

A Common Cloud Operating Model to Accelerate Application Delivery

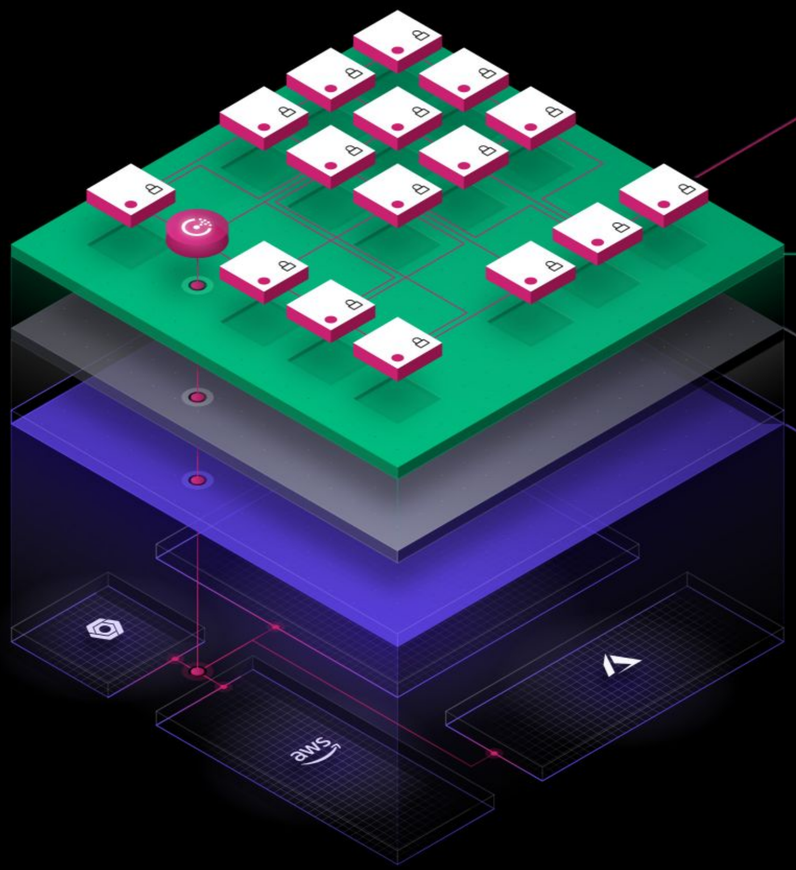


Open Source vs. Enterprise



The 4 essential elements of dynamic infrastructure

Enabling Hybrid / Multi Cloud Solutions



Networking

Connect infrastructure and applications

Development

Run applications

Security

Secure applications and infrastructure

Operations

Provision Infrastructure

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