



Agenda

- HCP in a Nutshell
- Goals of HCP
- HashiCorp Virtual Networks
- Consul and Vault as-a-Service
- Hands-on
- Pricing
- Final Remarks



HCP: In a Nutshell

- Hashicorp Cloud Platform was announced in June/2020
- A fully-managed platform to automate infra on any cloud with HashiCorp products
- On GA this year







Goals of HCP

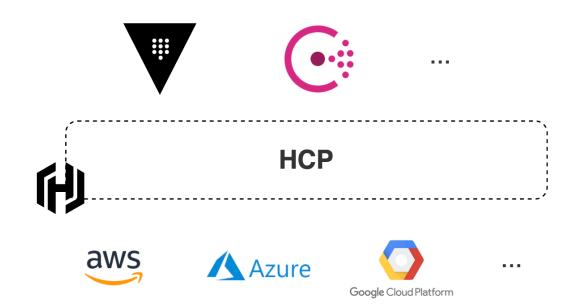


- Self-Managed vs HCP Model (Deploy > Operate > Use)
- HCP as a managed-service
- Lower the operation overhead
- Reduce the admin burden
- Shared Responsability Model (Patching, Security, health, snapshots, monitoring, etc)



Goals of HCP

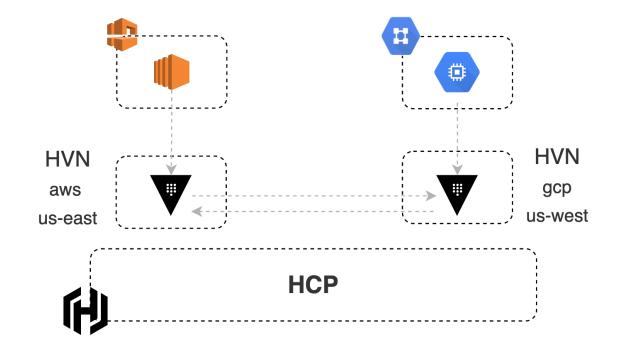
- Private Network Experience (HVN)
- Running on major Cloud-Vendors (AWS, Azure, GCP,...)





HashiCorp Virtual Network

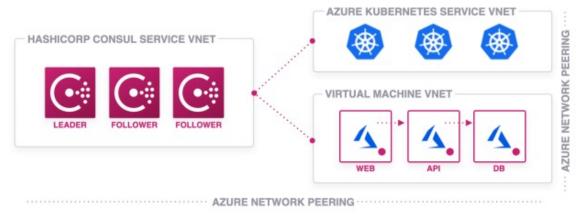
- Single tenant VPC for each HashiCorp Virtual Network (HVN)
- One HVN per Vendor and Region
- All HCP resources are deployed into that HVN, which ensures tenant isolation





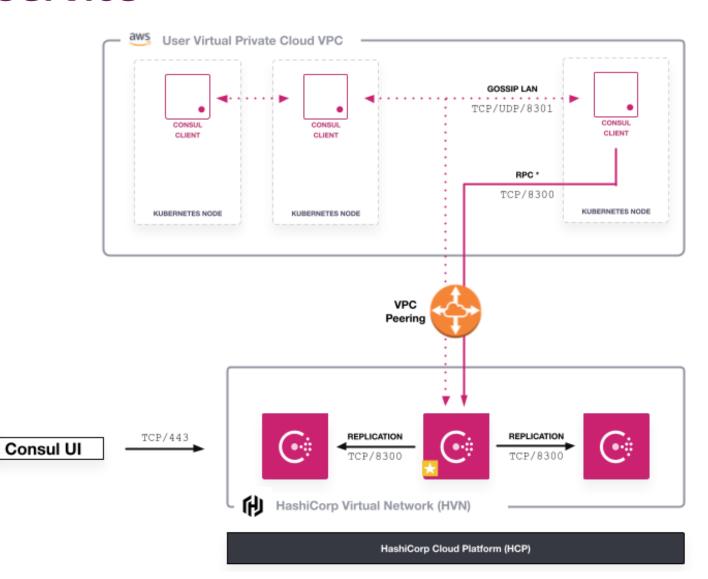
Consul-as-a-Service

- Fully managed service mesh to discover and securely connect any service
- All HCP resources are deployed into that HVN, which ensures tenant isolation
- OSS and Enterprise features
- Comparable to HCS on Azure





Consul-as-a-Service



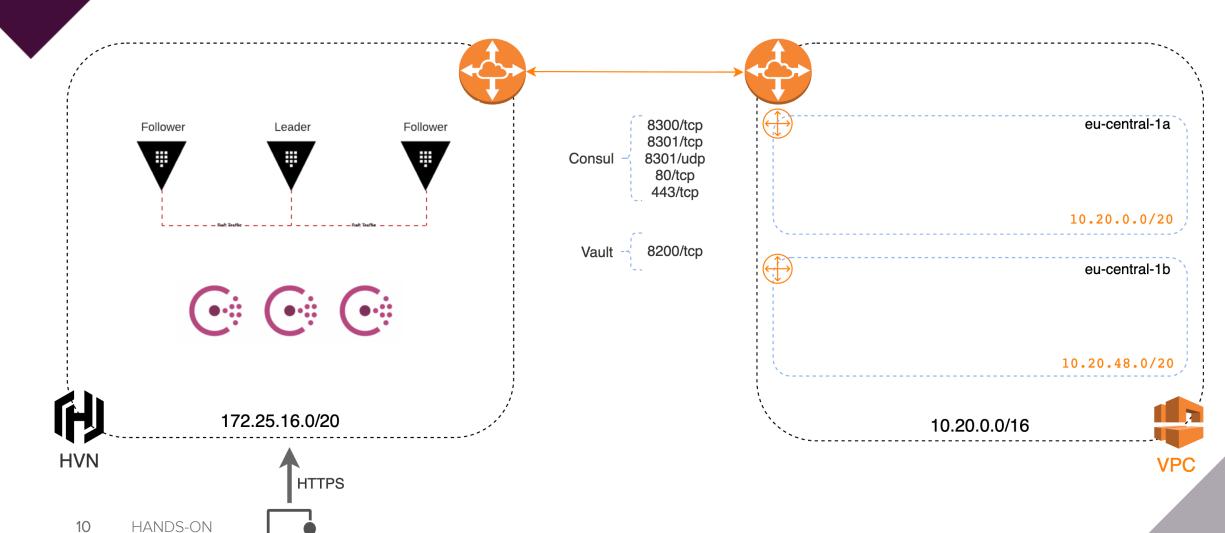


Vault-as-a-Service

- HCP Vault is the easiest way to **secure**, **store**, and tightly **control access** to tokens, passwords, certificates, encryption keys, and other sensitive data
- OSS and Enterprise features
- No multi-tenancy
- Data stored encrypted on mounted EBS volumes in the account
- Snapshots and logs on S3 encrypted in a central control-plane
- Sealing/Unsealing performed by KMS key created in the data plane account for each Vault cluster



Hands-On





Pricing

- Development cluster: non-production, single-node billed/hour. USD 20 free -
 - Consul: \$0.027/hr
 - Vault: \$0.03/hr
- Standard cluster hourly: For production, 3-node Consul deployment
 - Consul: 0.069/hr (Based on active services)
 - Vault: \$1.57/hr* (Based on active clients)
- Standard cluster annual: Large production on HCP Consul with annual agreement.



Final Remarks...

- Can be fully managed using Terraform
- Peering across cloud providers and cross-provider clustering in the roadmap
- Only AWS for now (EKS, EC2, AWS Lambda)... more to come.
- AWS regions in the U.S. (Oregon and Virginia) and Europe (Frankfurt, Ireland, and London)



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