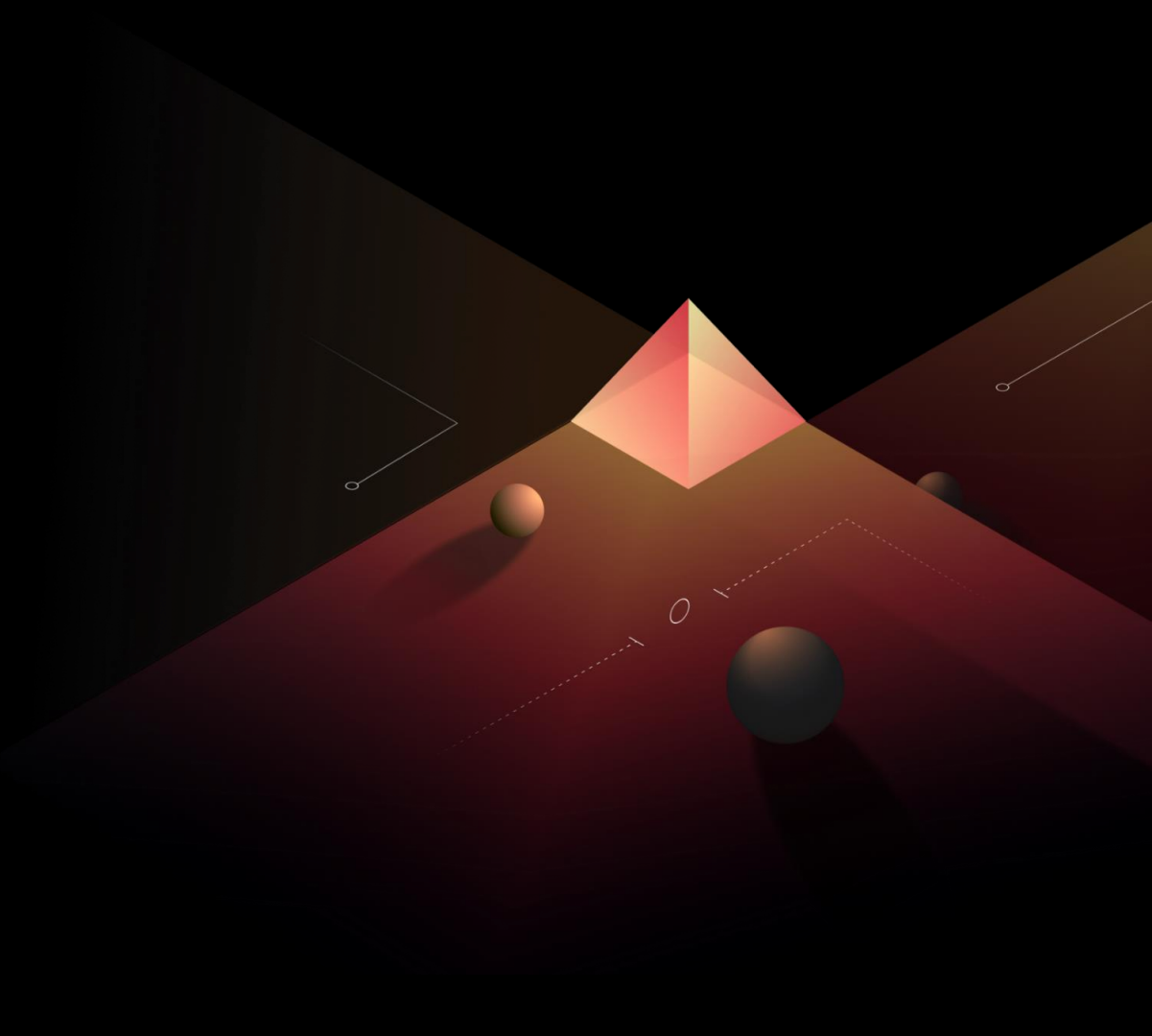






Zero-Trust Security

Trust Nothing.
Authenticate and
Authorize Everything.





Cedric Feist

Solutions Engineer at HashiCorp



Tobias Rupprecht

Solutions Engineer at HashiCorp



We're the
Cloud Operating
Company



Over 250M
Downloads &
Counting

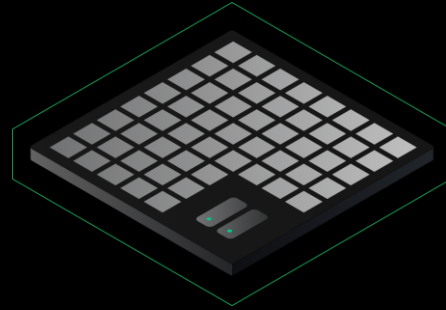


Pioneered Zero
Trust Security
in the Cloud



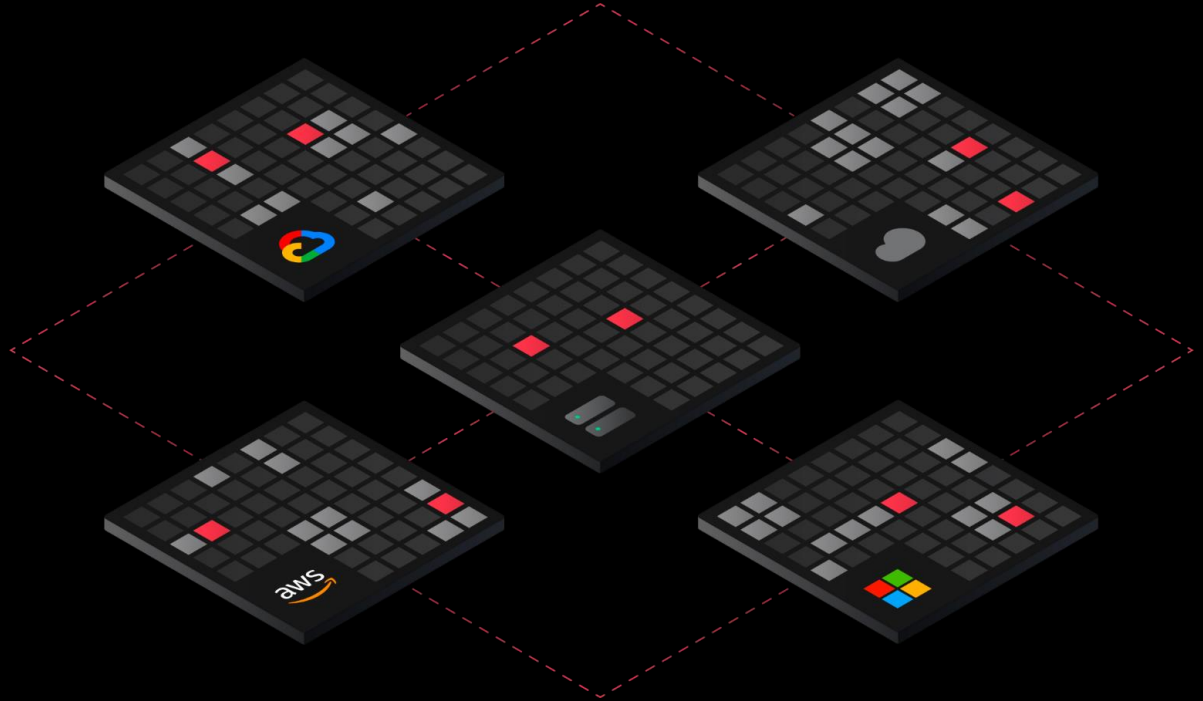
Securing a Datacenter Used to Be Simple.

- ✓ Trusted perimeter
- ✓ Trusted access
- ✓ Secured data



Securing Modern Infrastructure Is Hard.

- ⚠ No trusted perimeter
- ⚠ No trusted access
- ⚠ Unsecured data



Security Breaches by the Numbers



380%

increase over the last
2 years of data theft
breaches



82%

of breaches involved
a human element



9/10

of web application
breaches consisted of
stolen credentials



62%

of system intrusions
involved a supply
chain





Modern Infrastructure

- ⚠ No trusted perimeter
- ⚠ No trusted access
- ⚠ Unsecured data

Modern Infrastructure

with HashiCorp Zero Trust Security

- ✓ Everything is authenticated
- ✓ Every action is authorized
- ✓ Data is always protected





Zero Trust Security Starts with Identity



Legacy Identity was Simple

Application Identities



✓ IP Addresses

Network Identities



✓ IP Addresses

User Identities



✓ Active Directory

Applications and networks were secured based on static IP addresses over trusted networks.

There was typically one login systems for users to access systems and resources.



Modern Identity is Complex

Application Identities



Kubernetes	OpenShift
CloudFoundry	Tokens
JWT/OIDC	AppRole
Username Password	SSH

Network Identities



IP Addresses	DNS
Firewalls	Load Balancers
Kubernetes	OpenShift
Kerberos	TLS Certificates

User Identities



Active Directory	LDAP
Okta	Google
Duo	GitHub
RADIUS	Username Password

Cloud Identities



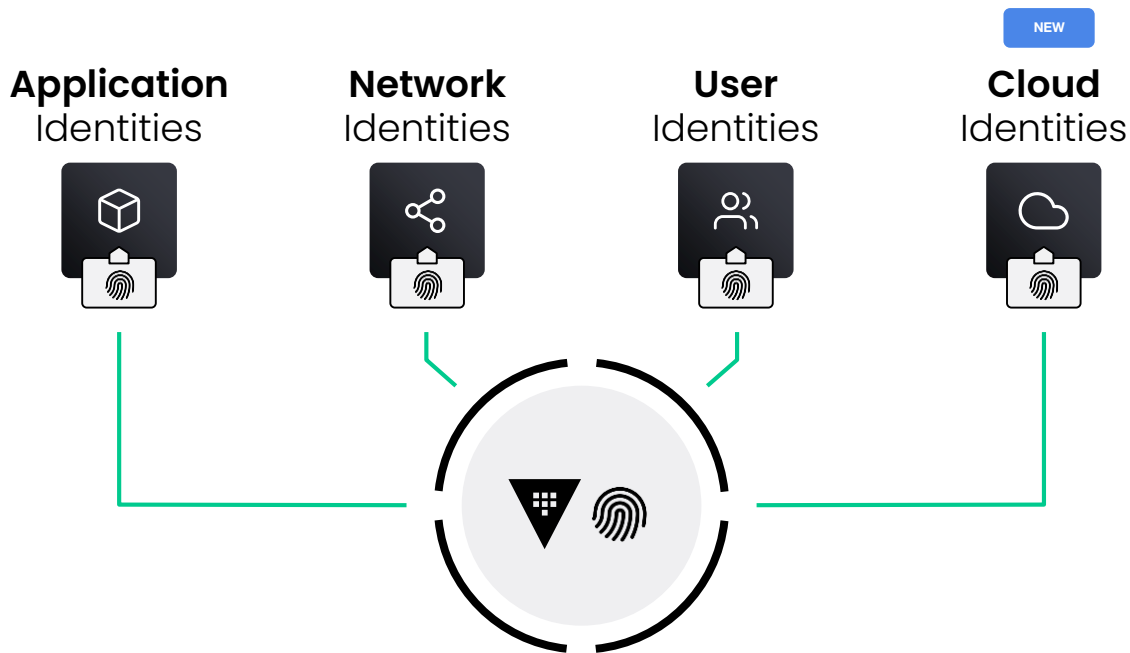
NEW



AWS	Azure
GCP	Alibaba
Oracle	IBM
Cisco	Private Cloud



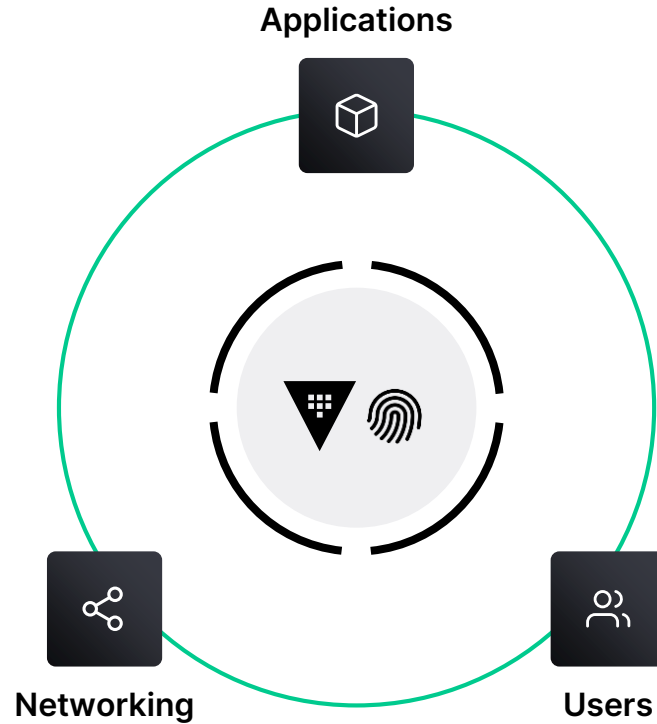
HashiCorp Simplifies Identity Across All Platforms



HashiCorp Vault can broker all identities across applications, networks, and users. Then secure everything based on identity.



Securing Access and Data with Trusted Identity

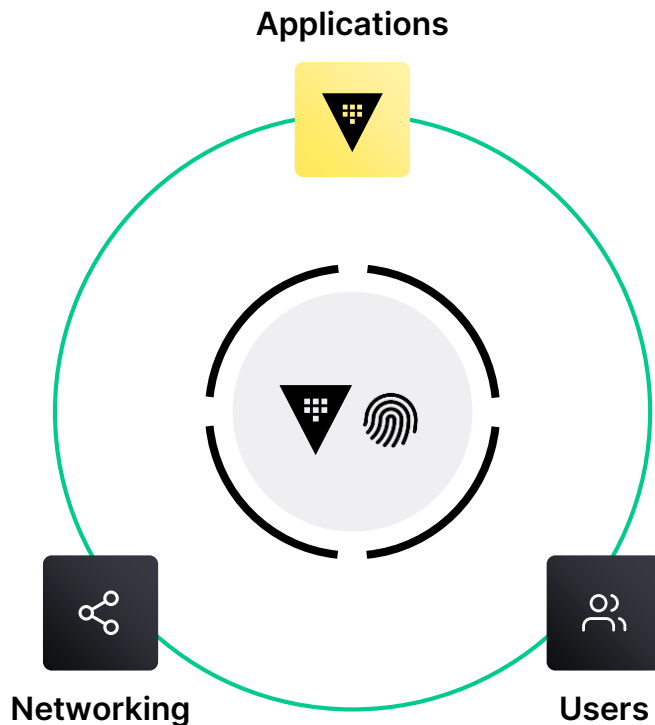


Application Security



Applications + Identity

- Ensure applications can access other apps and databases
- Application data is always secure in transit and rest

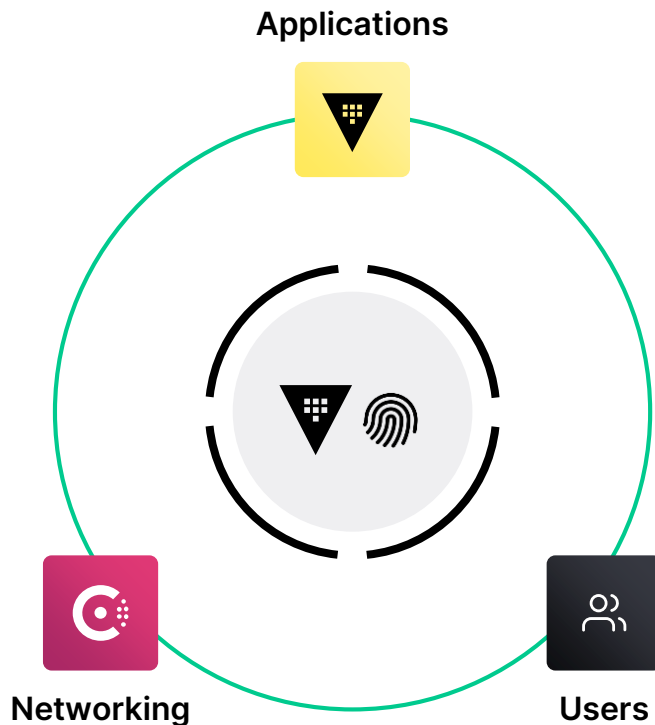


Network Security



Networking + Identity

- Ensure which services can access others or be reached
- Network traffic is always secure across clouds and datacenters

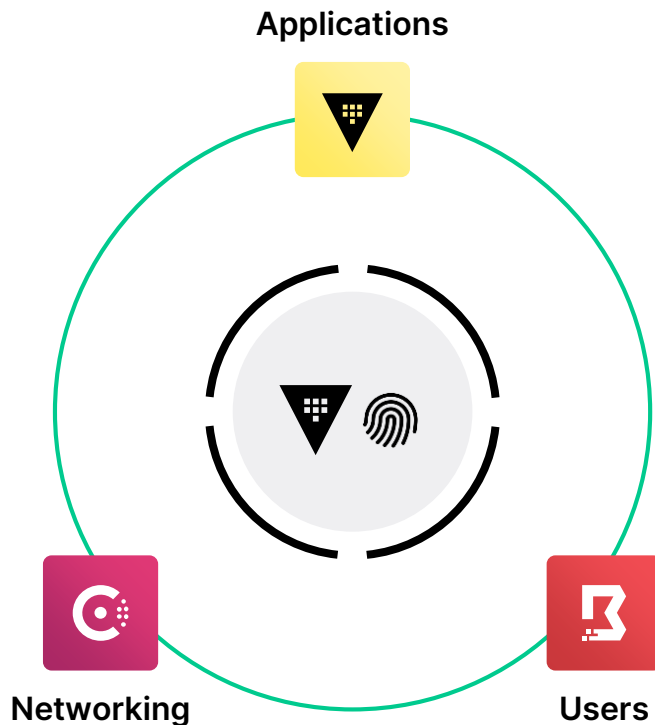


User Security



Users + Identity

- Ensure which systems users can access
- Session and access data is always secure



Zero Trust Beispiel

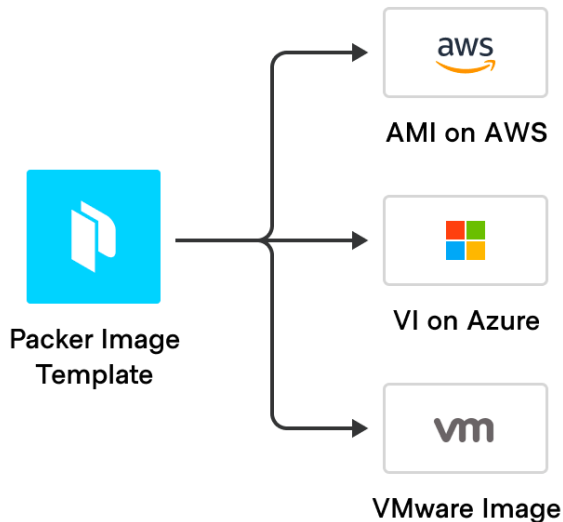
Secure Image Pipeline

- **GitHub Actions, Vault, Packer, und Terraform**

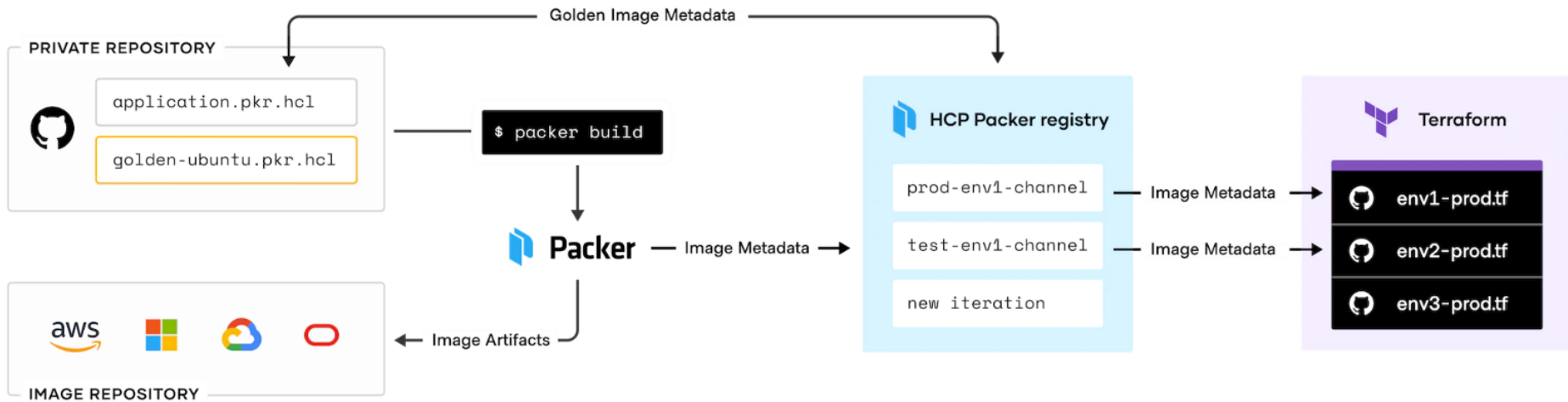
Packer



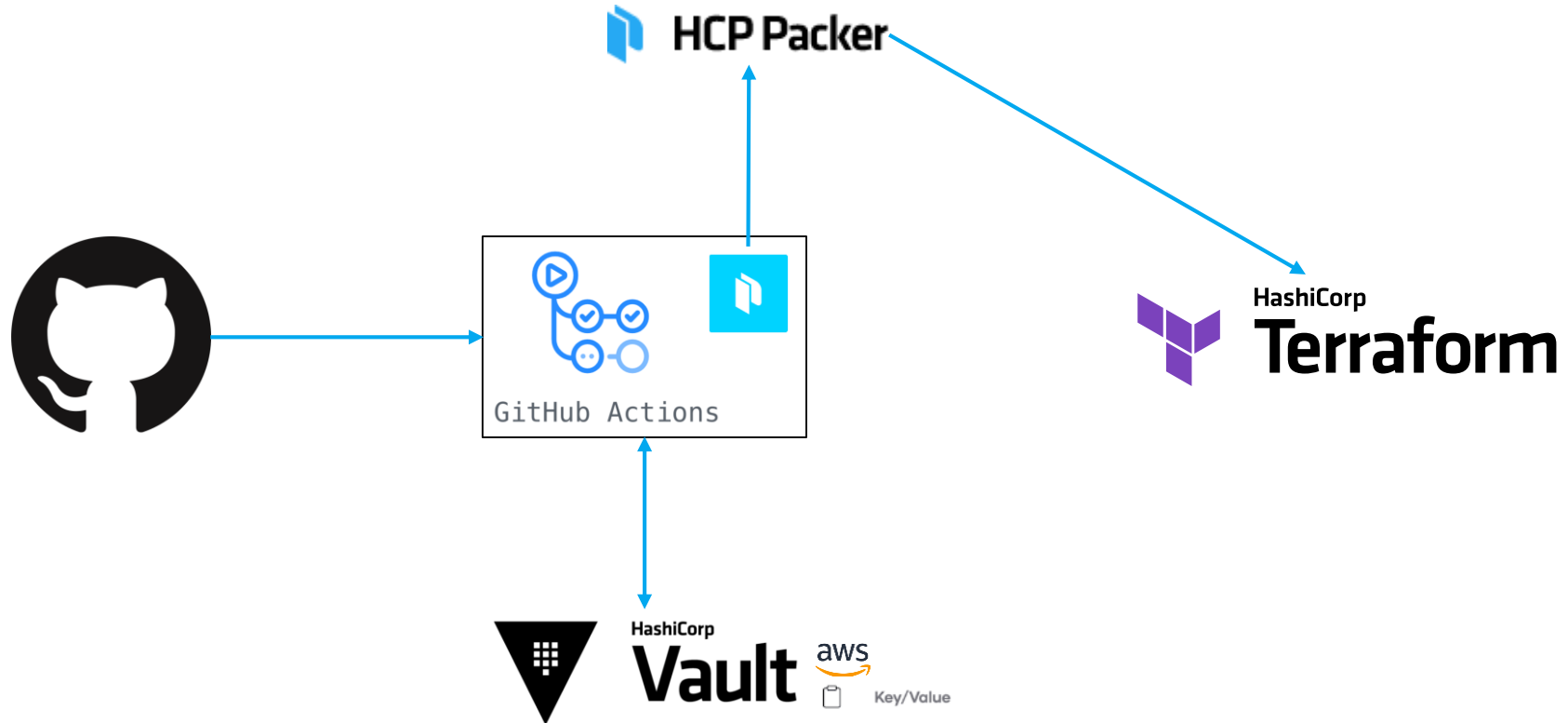
- **Easy to read and write:** Leverages HCL2, making it easier to use alongside Terraform
- **Extensible:** Use one language to manage images across clouds and integrate with other configuration tools
- **Open source:** Use existing community templates, or write your own



HCP Packer



Secure Image Pipeline Workflow





Thank you

For more information,
check out hashi.co/zerotrust

hello@hashicorp.com