CoIP® Enclave™

Self-Service Hybrid Networking Tools for DevOps

Hybrid Cloud Projects Introduce New Headaches

Enterprises are increasingly adopting DevOps techniques in public clouds to improve business agility and increase application maintainability. In the public cloud, the DevOps teams have a wide array of ready-to-use application infrastructure available to them. With tools such as virtual private clouds (VPCs), cloud architects have full control over application development and networking in the cloud environment. Challenges arise, however, when developers look to create a hybrid connection back to their on-premises environments.

Hybrid connections typically require careful implementation by enterprise IT and InfoSec staff. VPNs must be configured to connect the network and avoid IP addressing conflicts between the two environments, while a misconfiguration or breach in the cloud could allow attacks to flow back into the enterprise through a static site-to-site VPN. Network infrastructure will have to be reconfigured.

This process, driven by IT tickets, can delay a single project by weeks or months, negating the agility benefits of cloud adoption. Furthermore, short-term projects can easily create an unsustainable churn that overwhelm even the most efficient IT organization. In order to scale successfully, both DevOps and IT need new solutions that decouple hybrid cloud networking from existing enterprise networks.

Zentera's "Universal VPC" Solves Hybrid Cloud Network Challenges

Zentera's CoIP Enclave solution creates a hybrid Universal VPC that extends from clouds back to on-premises environments. This Universal VPC can be created and managed directly by DevOps teams, without touching existing on-premises networking and security settings. With "self-service" provisioning and automation, DevOps users can set up hybrid applications while retaining the agility and flexibility associated with public clouds.

With CoIP Enclave, DevOps users can connect from anywhere to this Universal VPC for instant access to endpoints in the cloud, while applications deployed to the cloud can use CoIP Enclave to connect back to on-premises LDAP, key management services or code repositories. Furthermore, this Universal VPC can be extended from one cloud environment to another, enabling hybrid applications that use best-of-breed cloud components.

Infrastructure & Operations (I&O) Problems in Cloud

Hybrid networking is too deeply coupled with IT network design

High cross-functional interdependency involved in hybrid connections

Unpredictable delays lead to unscalable projects

CoIP Enclave helps DevOps...

Securely connect application traffic from cloud to on-premises within hours

Enable one unified network for hybrid applications

Streamline the implementation of hybrid cloud projects by reducing the number of departments involved