

Secure Access to Private Application



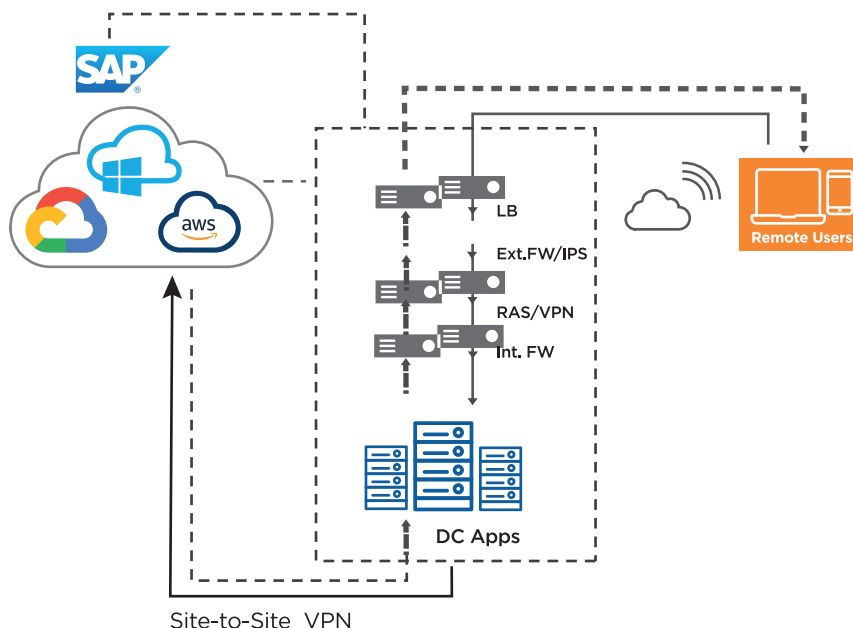
Cloud migration has become an integral part of global IT transformation. With different cloud service vendors, enterprises can leverage a global, highly flexible, and interconnected network that can help in reducing costs and complexity by running on infrastructure as a service. Enterprises are realizing these benefits in greater numbers and are actively pursuing application transformation initiatives centered on migrating internal applications to cloud.

Cloud migration of private apps like SAP breaks the idea of a secure perimeter, as the apps and data that need protecting now reside outside the perimeter. The hub-and-spoke strategy of routing traffic to a central data center becomes inefficient with apps running in cloud environment.

Challenges



- **High Cost** - Multiple VPN gateways need to be in place in case of multiple DC's, increasing both CAPEX and OPEX cost.
- **Complexity** - Multiple gateway appliances must be used to enable secure access to cloud applications making it difficult to scale across multiple geographies, as teams would have to replicate gateways across each data center. Remote access VPNs also hinder the value of cloud, such as its elasticity and simplicity.
- **Poor User Experience** - Users attempting to have secure access applications running within the public cloud are forced to log in to a remote access VPN. Their traffic is then routed through the data center, instead of going directly to cloud.
- **Prone to vulnerabilities and attack** - VPNs place remote users on the corporate network. This can expose the network to malware or other security attacks that stem from untrusted user devices. Lateral movement makes it easier for attacks to spread to multiple apps.



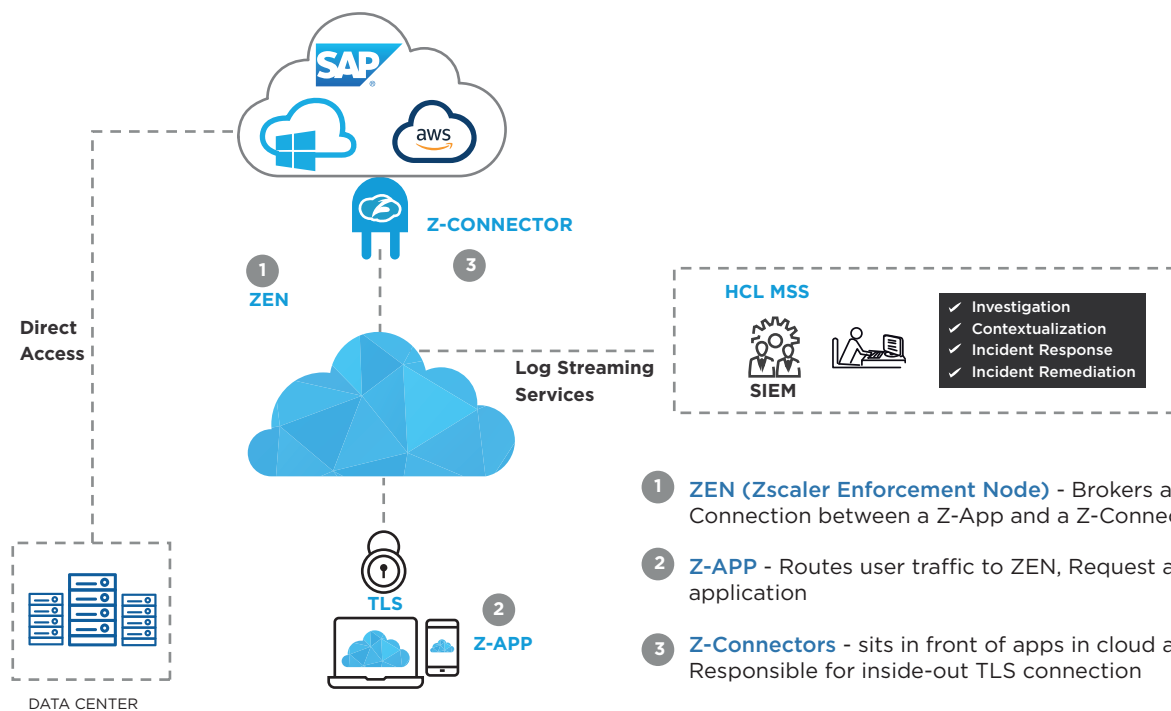
HCL Approach / Solution



Due to the features of cloud such as scalability, availability, easier maintenance, and zero capex, organizations are moving their private applications also on public cloud. Along with that, users need to access such applications on the go. This calls for a secure, next-generation remote access solution. HCL enables our enterprise customers to break free from the remote access VPN-driven mindset that is centered around the data center to one of a more modern, cloud-based approach, powered by Zscaler Private Access solution.

The solution is based on zero-trust strategy and only authorized users are given access to specific applications. This makes the user experience better as they can swiftly and seamlessly access the private applications irrespective of their location.

When an authorized user requests access to an internal application like SAP hosted on cloud, the Zscaler policy engine enables a lightweight, application layer-based tunnel through the Zscaler cloud. This tunnel is an encrypted channel and protects the application access from any kind of man-in-the middle attack or unauthorized access. Zscaler Private Access, along with AWS/ Azure cloud-based security approach, will enable the enterprise to determine who has access to which internal applications, even as they are migrated from the data center to the cloud.



Solution Features



Zscaler Private Access

- Access is application specific, with no need to define policy by IP address or ACL
- Internal applications are invisible to users, unless users are authorized to access them
- No user-to-network access. Users have direct access only to specific applications, and each application session has its own micro-tunnel

HCL Managed Services

- Easier and faster deployment
- Simplified authentication mechanism
- Real-time monitoring and incident response for threats
- Policies maintained on an application level and not at network level

Benefits of HCL Recommended Approach



- Based on Zero Trust model
- Reduction in CAPEX
- Traffic remains private via internet network
- Users receive better experience accessing applications even in hybrid and multi-cloud environment
- Per user – Per App granular access based on policies
- Real-time visibility with 24*7 managed services powered through HCL CSFC (CyberSecurity Fusion Centres)

Client Success Story



A leading pharmaceutical company was migrating five private applications on AWS and needed secure access for its 5000-user base.

CUSTOMER CHALLENGE	HCL SOLUTION	BENEFITS
<ul style="list-style-type: none">• Private applications needed cloud migration with seamless access during provisioning, migration, and post-migration• Cloud application access to be given to distributed mobile workforce• Performance and user experience affected due to application migration	<ul style="list-style-type: none">• Users were provisioned with application based access on cloud• Strong but simplified authentication mechanism enabled• Simplified management with real-time visibility• No CAPEX involved	<ul style="list-style-type: none">• Better user experience• Granular application access control• Increase in performance by ensuring optimal path between users and applications• Increased visibility into applications and user activity

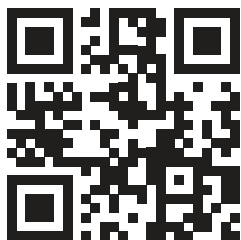
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