

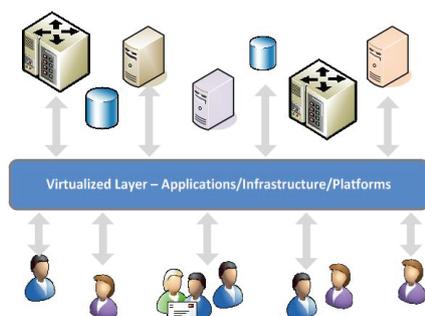
SSL in the Cloud

CloudSSL - SSL deployment optimized for on-demand Cloud environments

Given the increased dependency on cloud-based services, it is imperative to evaluate the security trepidations involved. While moving to the cloud involves many benefits for both service providers and end users, it raises critical security questions as data is moved to and from, as well as within the cloud.

Security in the cloud

Trust remains a key element for end users when choosing their cloud provider and it is essential for any organization operating in a cloud environment to deploy the necessary security levels. Cryptography provides the answer to an array of cloud security issues, as SSL/TLS is the standard for securing Internet communications; increasingly the movement is for https to become the norm and preferred method of Internet communication rather than traditional http.



As cloud environments have developed, the requirements for SSL deployment and usage have changed. Some of the characteristics of the SSL needs in the cloud include:

- 1. The need to secure multiple domains under one IP address**
- 2. Frequent updates and changes to the domain names used in cloud applications and storage**
- 3. Reliance on economies of scale for reduced costs in order to achieve operational effectiveness**

Deployments falling into these categories include virtualized hosting and storage, hosted MS Exchange or Sharepoint, Content Distribution Networks (CDNs), DNS acceleration, DDoS protection and any other innovative service utilizing multiple FQDN's under a single IP address.

As many cloud services require the cloud provider to operate some aspect of the customer's DNS, host their domain or subdomain, control flow of data to and from multiple Web 2.0 applications and ensure cloud-based data storage is suitably protected, traditional SSL administration becomes extremely complicated. Yet throughout the complexities, SSL is still the core security technology required for safe usage of the cloud.

CloudSSL – as used by:



CloudSSL – the cloud usage model applied to SSL

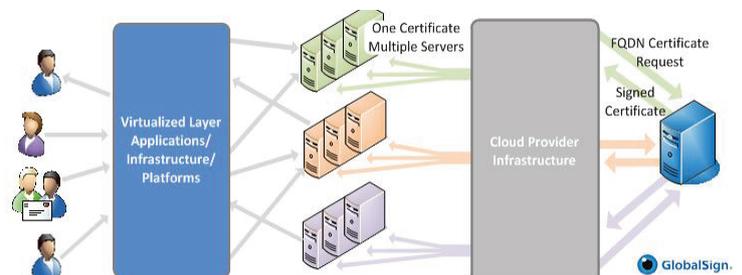
GlobalSign's CloudSSL offers a unique SSL issuance model for the providers of cloud application, infrastructure, platform, storage and service environments. CloudSSL incorporates on-demand SSL protection in a scalable and cost-effective fashion without the usual manual intervention required by the end customer.

On-demand SSL security

The CloudSSL service issues GlobalSign multi-domain SSL Certificates to the cloud service provider with the ability to dynamically add/remove customer domains via API calls, fitting perfectly with the flexible nature of utility computing. The secure site scope of the certificate can be rapidly modified over the lifetime of the certificate, allowing service providers to activate/deactivate SSL for domains as services are created/terminated.

Expanding SSL Certificate capabilities

CloudSSL can host multiple non-related domain names in a single Certificate - providers no longer need to purchase individual SSL Certificates on behalf of their customers, eliminating IP pool restrictions. Uniquely, FQDNs are only activated when the end customer approves the right to use SSL on their domain, ensuring cloud providers risk no liability in the use of SSL for their service. The unlimited licensing model allows a single certificate to be used across an entire virtualized infrastructure.



These processes can be completely integrated into the current infrastructure by using the CloudSSL SOAP-based XML API. As such, CloudSSL provides the scalability and flexibility that is essential to an effective cloud, delivering quick issuance and minimal end user involvement.

As a service provider, you keep control over the security in your network, and benefit from the competitive advantage of offering additional trust to your customers via CloudSSL.

- On-demand SSL Certificate generation
- Dynamic activation/deactivation of FQDNs
- API integration & automated approval process
- Unlimited license model for virtualisation
- Minimises unique IP usage
- SSL trusted by all browsers and mobile devices

No other SSL Provider offers APIs for on-demand SSL issuance in optimized cloud environments.

Talk to GlobalSign about how the new CloudSSL can start securing your cloud services today.

For more information about GlobalSign solutions, please call 1-877-775-4562

Visit www.globalsign.com for more information