

Protect Your Applications from Attacks Hidden in Encrypted Traffic with Citrix ADC

Google suggests that up to [90% of internet traffic](#) is now encrypted which makes threats more difficult to detect. This create three major areas of concern for your application security.

- **Malware is hidden in encrypted traffic.** Encrypted traffic means that your security devices will not be able to detect threats, allowing them to penetrate your applications before they are decrypted and attack your systems. This is an effective blind spot in your security and there is a need to decrypt traffic for inspection.
- **TLS termination is expensive, repetitive and complex.** Encryption and decryption are compute-intensive tasks, which require a lot of processing power. This can drive up costs. Further, the management of TLS certificates can, itself, be complex and expensive.
- **Lack of visibility and governance of TLS protocols, ciphers and certificates.** Without proper visibility and governance tools for your TLS security posture, you risk leaving security holes that can be exploited to attack your systems and exfiltrate data.

CISOs and SecOps are looking for a comprehensive and consistent SSL policy that provide the protection, scale and analytics to ensure enterprise-wide compliance.

Citrix ADC Provides the Latest SSL Protocols and Cipher Support

Citrix and its Application Delivery Controller (ADC) portfolio has always been at the forefront of SSL security and led the charge with the latest protocols and cipher suites. Full support is obviously given for TLS 1.3 with AES256, CHACHA20 ciphers and elliptic curve cryptography for key exchanges making your encryption as secure as it can be. There is even support for the more stringent FIPS 140-2 standard in the ADC physical and virtual appliances. So, you should always be well protected.

Scale TLS for Encrypted Traffic Growth

Offloading SSL processing to the Citrix ADC means that you don't necessarily have to install public certificates on every server, significantly reducing management overhead. Citrix ADC's proven SSL scale and industry leading price/performance enables you to reduce the number of back-end servers required to serve content.

More than this, however, you can use Citrix ADC to decrypt traffic prior to inspection. This dramatically scales traffic inspection by removing the burden of encryption from security devices which are not designed to handle the process effectively. Not only does less processing mean smaller/fewer, and hence lower cost, firewalls, IDS and AV/DLP inspection devices but it also enables you to mirror traffic to recording systems for compliance and auditing purposes.

Deep Analytics for Visibility, Compliance and Governance

One of the key strengths of Citrix ADC with SSL is the deep analytics it provides for visibility and governance. The SSL dashboard in Citrix ADM lets you define an enterprise-wide SSL policy with just a few clicks. Citrix ADM will then track, monitor and, via Citrix ADC, enforce the ciphers, protocols and key strengths in use across all your applications in your entire multi-cloud.

Citrix ADM is also a very convenient point from which to monitor SSL certificate expiry and it allows you to easily install new certificates to your ADCs with just a few clicks.

The SSL tools embedded in Citrix ADC and ADM help you remove the SSL blind spots, improve the performance and scale of your traffic inspection and reduce the costs of deploying and managing SSL infrastructure across your entire application delivery infrastructure in your multi-cloud environment.

Flexible and Simple Deployment Options for Multi-Cloud

SSL protection is available as part of the Citrix ADC offering and is included with the premium edition license. Citrix ADC is available in multiple form factors and in the major public clouds (AWS, Azure, GCP) to suit your deployment requirements. The single code base across the whole Citrix ADC portfolio enables you to maintain operational consistency across your deployments and applications. The single license approach, which includes security features including WAF, bot mitigation and API protection, brings simplicity and reduces TCO.

Keeping it simple lets you keep it secure.



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