netskope

JUNIPER NETWORKS AND NETSKOPE INTEGRATED CLOUD SECURITY SOLUTION

Secure your cloud services with an innovative, cloud-aware, threat-centric solution

Challenge

Whether sanctioned or unsanctioned, cloud application usage is growing rapidly. Enterprises must ensure that the cloud technologies in their environments are safe, compliant with business policies, cost-effective, and optimized for business use

Solution

As part of its Connected Security ecosystem, Juniper is partnering with Netskope to thwart malware targeted at cloud services. The integrated solution combines Advanced Threat Prevention Cloud with Netskope's unique multilayered malware detection and remediation capabilities.

Benefits

- *Delivers comprehensive enterprise-wide security with 360° cloud application security*
- *Protects against advanced threats that hide in or spread via the cloud*
- *Finds malware in sanctioned cloud apps such as Office 365 and Box*
- *Blocks threats moving into or out of any cloud application in real time*
- *Detects cloud ransomware and restores affected files*

As the scale and sophistication of cybercrimes continue to increase, enterprises need to rethink their defense strategies. To be truly effective, next-generation security must be built around automated and actionable intelligence that can be shared quickly to recognize and reduce threats and protect the network, applications, and users. Juniper Networks® Connected Security, which combines policy, detection, and enforcement with a comprehensive product portfolio to centralize and automate security, gives you end-to-end visibility that helps you secure the entire network, physical and virtual.

Juniper Advanced Threat Prevention employs a pipeline of technologies in the cloud to identify varying levels of risk, providing a high degree of accuracy in threat prevention. Leveraging ATP Cloud, Juniper has partnered with Netskope, a leading cloud access security broker, to deliver a comprehensive, end-to-end, integrated solution to secure cloud applications.

The Challenge

With the rapid adoption and reliance on cloud services, combined with the limitations of current perimeter-based and disjointed products, business-critical applications are at significant risk. To mitigate this risk, businesses need a fully integrated security solution that is cloud-aware and can effectively defend cloud services and applications across the network while enabling users to safely use cloud applications.

The Juniper Networks and Netskope Integrated Cloud Security Solution

Powered by Juniper Connected Security and seamless integration between Advanced Threat Prevention Cloud and Netskope's unique multilayered malware detection technologies, the integrated cloud security solution offers comprehensive threat protection for cloud services and applications.

This joint solution allows users to enforce end-to-end security policies across the network, providing complete visibility into cloud traffic that other security solutions cannot provide. These include sync clients, mobile apps, and SSL-encrypted cloud services, helping you detect malware hiding in your cloud services. Enterprises need to consistently enforce and monitor the effectiveness of security policies across all cloud applications in their environment, and report on their compliance, whether sanctioned or not. With the joint Juniper-Netskope integrated cloud

security solution, you can confidently offer this level of security by providing organizations with features such as shadow IT discovery and advanced threat protection for cloud services and applications.

Shadow IT Discovery: Discover and Secure All Cloud Services in Use

Businesses use the cloud because it helps them work more quickly, efficiently, and flexibly than traditional computing solutions. And increasingly, many users and workgroups are deploying, managing, and using these cloud services on their own. That means someone needs to ensure that these shadow IT applications are being used in a secure and compliant manner. While it is technically possible to block many of these services, the better solution would be to strike a balance, finding a way to enable them without negatively impacting security and compliance.

The Juniper-Netskope partnership gives enterprises visibility into the use of unsanctioned, potentially risky shadow IT applications so that you can effectively secure all of the cloud services in your organization.
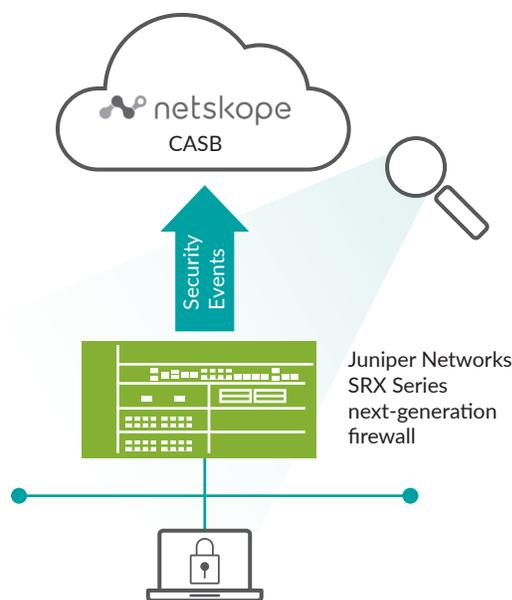

Figure 1: Shadow IT discovery

Advanced Threat Protection: Defense-In-Depth Solution Targeted at Cloud Threats

As more organizations adopt cloud services for collaboration and sharing, these new services attract the attention of malicious actors seeking new openings to deliver malware and amplify its effects. Ransomware, a particularly damaging form of malware, can spread quickly through cloud services via their synchronization and sharing capabilities, creating a dangerous fan-out effect. The Juniper-Netskope partnership helps enterprises find and remediate advanced threats and malware, both in real time and for data at rest in sanctioned applications.

Features and Benefits

- **End-to-end comprehensive security and enforcement:** Seamless integration between Juniper Networks SRX Series Services Gateways and Netskope's CASB solution provides the end-to-end visibility enterprises need to protect their cloud-based applications.

- **Multilayered solution:** From static antivirus analysis and heuristics to dynamic sandbox analysis and machine learning, the integrated Juniper-Netskope solution provides multiple layers of protection against malware and other advanced cloud threats.

- **Complete visibility:** The joint Juniper-Netskope solution provides complete visibility into cloud services from a Web browser, mobile app, or sync client. The solution, which features an all-mode architecture capable of covering all cloud traffic whether users are on premises or remote, inspects files stored in your sanctioned cloud services, as well as files on route to any cloud service—even those using SSL-encrypted connections.

- **Rapid response:** You need to respond to threats faster than ever to keep pace with the speed of the cloud. The Juniper-Netskope integrated solution lets you take immediate, automated action on known or suspected threats, as well as thoroughly analyze and quickly remediate new cloud threats.

Solution Components

Juniper Networks Advanced Threat Prevention Cloud

A cloud-based service that's integrated with Juniper Networks Junos® Space Security Director, SRX Series Services Gateways, and Netskope Active Platform, ATP Cloud delivers a dynamic anti-malware solution that adapts to an ever-changing threat landscape. Juniper ATP is a cloud-based advanced anti-malware service that uses dynamic analysis (sandboxing) to defend against sophisticated "zero-day" threats. Integrated with SRX Series physical and vSRX virtual firewalls, ATP Cloud provides built-in machine learning to improve verdict accuracy.

To learn more about Advanced Threat Prevention Cloud, visit www.juniper.net/us/en/products-services/security/advanced-threat-prevention/.

Netskope Threat Protection

Netskope Threat Protection provides comprehensive threat defense for cloud services, combining 360° cloud visibility with multilayered threat detection and flexible remediation capabilities. Netskope Active Threat Protection combines threat intelligence, static and dynamic analysis, and machine learning-based anomaly detection to enable real-time detection, prioritized analysis, and remediation of threats that may originate from—or be propagated by—cloud applications.
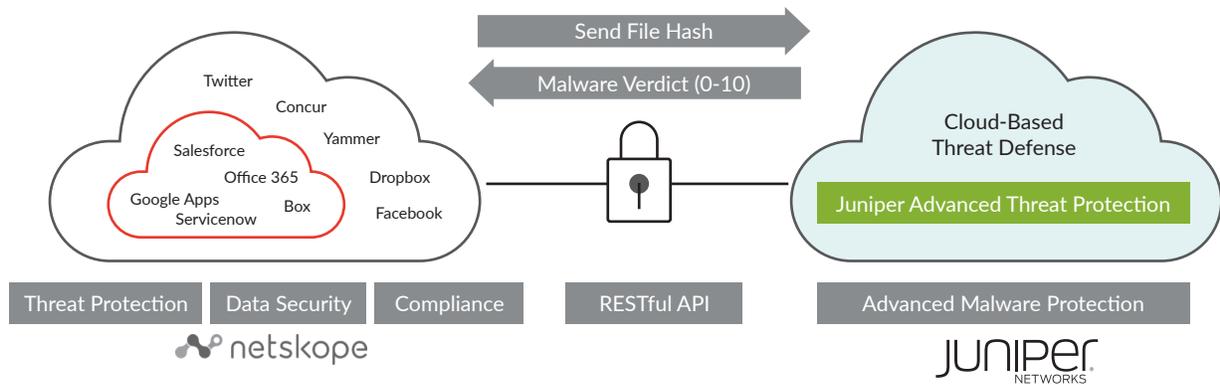
Figure 2: Advanced threat protection

Netskope Threat Protection integrates with industry-leading solutions such as Juniper Networks Advanced Threat Prevention to reduce the time required for cloud threat detection and forensic analysis from hours to just minutes.

To learn more about Netskope Threat Protection, visit www.netskope.com/platform/threat-protection.

Summary—Comprehensive and Cloud-Aware Security

The more organizations use the cloud to collaborate and share, the more the cloud becomes a target for cyberattacks. Working together, Juniper Networks and Netskope offer an integrated cloud security solution that provides a comprehensive threat defense for cloud services, combining 360° cloud visibility with multilayered threat detection, flexible remediation, and end-to-end enforcement capabilities.

Next Steps

For more information about Juniper Networks security solutions, please visit us atwww.juniper.net/us/en/products-services/security and contact your Juniper Networks representative.

About Netskope

Netskope is the leader in cloud security. Trusted by the world's largest companies, Netskope's cloud-scale security platform enables security professionals to understand risky activities, protect sensitive data, stop online threats, and respond to incidents in a way that fits how people work. Netskope: security evolved.

About Juniper Networks

Juniper Networks brings simplicity to networking with products, solutions and services that connect the world. Through engineering innovation, we remove the constraints and complexities of networking in the cloud era to solve the toughest challenges our customers and partners face daily. At Juniper Networks, we believe that the network is a resource for sharing knowledge and human advancement that changes the world. We are committed to imagining groundbreaking ways to deliver automated, scalable and secure networks to move at the speed of business

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