



# JUNIPER NETWORKS AND CIPHERCLOUD 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 the Juniper Connected Security framework, Juniper is partnering with CipherCloud to thwart malware targeted at cloud services. The integrated solution combines Sky Advanced Threat Prevention with the CipherCloud Trust Platform to help enterprises secure cloud applications.

## Benefits

- Delivers comprehensive enterprise-wide security
- Provides multicloud collaboration controls
- Protects against advanced threats that hide in or spread via the cloud
- Finds malware in sanctioned cloud apps such as Salesforce and Box
- Tracks user interactions across multiple cloud applications to assure compliance
- Spots anomalies through detailed security dashboards and reports

*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 Networks Sky 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 the Sky ATP solution, Juniper has partnered with CipherCloud, a leading cloud access security broker, to deliver a comprehensive, end-to-end, integrated solution for securing cloud applications.*

## The Challenge

The rapid adoption of and reliance on cloud services, combined with the limitations of current perimeter-based and disjointed products, are putting business-critical applications at significant risk. Users can rapidly share any file with almost anyone without IT ever knowing about it, significantly increasing the risks of data loss, compliance violations, and security breaches. Enterprise customers who want to leverage the cost and agility advantages of cloud applications must maintain expected security, privacy, and compliance levels without disrupting business or exposing personal and regulated data being sent to the cloud. In addition, organizations must consider how to combat new threats as sensitive data moves to the cloud.

## The Juniper Networks and CipherCloud Integrated Cloud Security Solution

The seamless integration of Sky ATP and CipherCloud's unique multilayered malware detection technologies delivers an integrated cloud security solution that offers comprehensive threat protection for cloud services and applications.

Powered by Juniper Connected Security, the joint solution integrates key capabilities of the CipherCloud CASB platform with Juniper Networks SRX Series Services Gateways, Juniper Networks Junos® Space Security Director, and Sky ATP to help

users understand shadow IT trends. With this joint solution, IT organizations can mitigate the impact of risky behaviors by detecting anomalies and protecting against advanced threats and sensitive content across multiple cloud applications.

### Shadow IT Discovery: Gaining Control over Runaway Shadow IT

Businesses use the cloud because it helps them work more efficiently and flexibly than traditional computing solutions. Increasingly, many users and workgroups are deploying, managing, and using these cloud services on their own. The majority of cloud applications in use at large enterprises are unsanctioned, which means that IT has not approved them and, often, is not even aware of their existence.

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-CipherCloud partnership gives enterprises visibility into the use of unsanctioned, potentially risky shadow IT applications, effectively securing all cloud services in your organization.

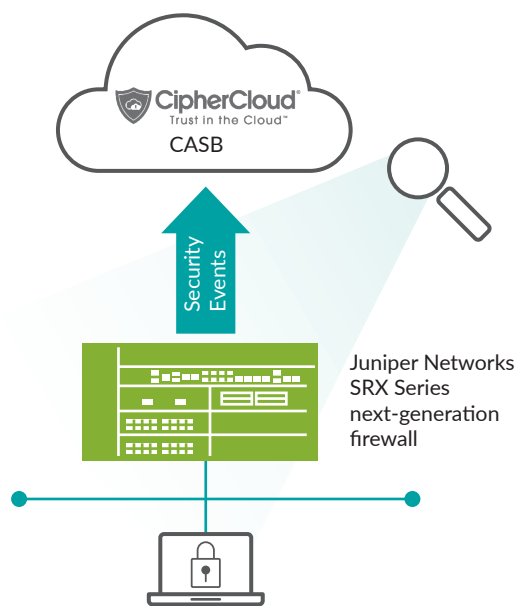


Figure 1: Shadow IT discovery

### Advanced Threat Protection: Visibility, Control, and Data Protection for All of Your Business Clouds

As more organizations adopt cloud services for collaboration and sharing, these services attract the attention of malicious actors seeking new vulnerabilities that allow them 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-CipherCloud

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 SRX Series firewalls and CipherCloud's CASB solution provides the end-to-end visibility enterprises need to protect their cloud-based applications.
- **Shadow IT visibility:** The joint Juniper-CipherCloud solution mines SRX Series firewall logs for unsanctioned cloud usage and drills down on user and group trends to assign a comprehensive risk rating to more than 14,000 clouds detailing over 60 cloud risk attributes.
- **Cloud content protection and control:** CipherCloud Cloud Data Loss Prevention (DLP) provides detailed and precise information about where your data is going and what your users are doing within applications such as Salesforce or Box, and extends corporate DLP policies to external cloud applications.
- **Rapid response:** You need to respond to threats faster than ever to keep pace with the speed of the cloud. The integrated Juniper-CipherCloud solution lets you take immediate, automated action on known or suspected threats, as well as thoroughly analyze and quickly detect anomalies in real time to remediate new cloud threats.

### Solution Components

#### Juniper Networks Sky Advanced Threat Prevention

A cloud-based service that's integrated with Junos Space Security Director and SRX Series firewalls, as well as the CipherCloud Trust Platform, Sky Advanced Threat Prevention delivers a dynamic anti-malware solution that adapts to an ever-changing threat landscape. Sky ATP is a cloud-based anti-malware service that uses dynamic analysis (sandboxing) to defend against sophisticated "zero-day" threats. Integrated with SRX Series physical and vSRX virtual firewalls, Sky ATP provides built-in machine learning to improve verdict accuracy.

To learn more about Sky Advanced Threat Prevention, visit [www.juniper.net/us/en/products-services/security/sky-advanced-threat-prevention](http://www.juniper.net/us/en/products-services/security/sky-advanced-threat-prevention).

#### CipherCloud Trust Platform

CipherCloud delivers the industry's first and most complete CASB solution, addressing all of these business challenges and enabling safe cloud adoption with an integrated platform that provides extensive visibility, powerful policy controls, and unrivaled data protection. CipherCloud enables companies to adopt the cloud while ensuring compliance and control.

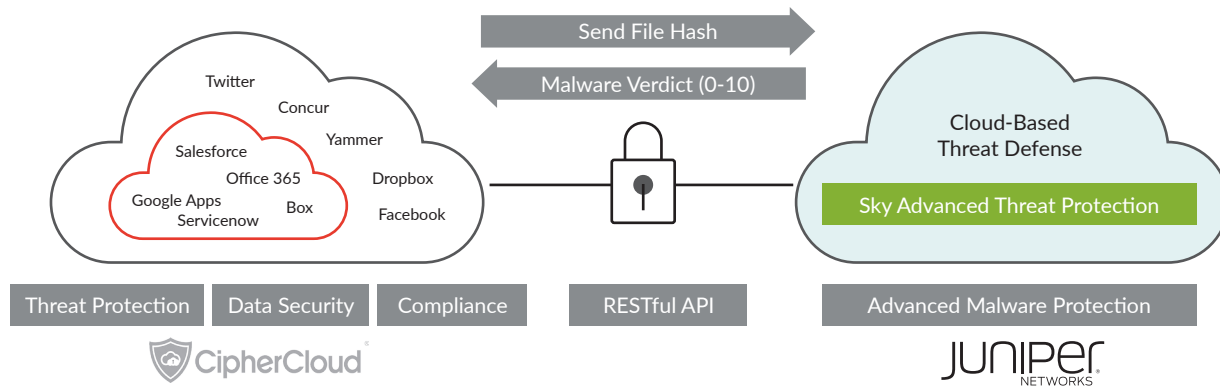


Figure 2: Advanced threat protection

To learn more about Cipher Cloud Trust Platform, visit [www.CipherCloud.com/products/products-overview-CipherCloud-trust-platform/](http://www.CipherCloud.com/products/products-overview-CipherCloud-trust-platform/).

### 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 CipherCloud offer an integrated cloud security solution that provides a comprehensive threat defense for cloud services, multicloud collaboration controls with multilayered threat detection, quick remediation, and end-to-end enforcement capabilities.

#### Next Steps

For more information on Juniper Networks security solutions and partnerships, please visit us at [www.juniper.net/us/en/products-services/security](http://www.juniper.net/us/en/products-services/security) or contact your Juniper Networks representative.

### About CipherCloud

CipherCloud, the leader in cloud security and visibility, enables companies to adopt the cloud while ensuring data protection, compliance, and control. CipherCloud delivers a comprehensive multicloud security platform that integrates advanced FIPS 140-2 validated data protection, content control, monitoring, cloud discovery, and risk analysis. The largest financial services, insurance, healthcare, telecommunication, and gaming companies across more than 25 countries have put their trust in CipherCloud.

### 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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