PulseSecure

JUNIPER NETWORKS-ON-PULSE: WORK ANYWHERE, ANYTIME AND FROM ANY DEVICE

Summary

Company: Juniper Networks

Industry: Technology

Challenges:
Make it easier for employees to access business applications and information from personally-owned smartphones and tablets

Network Solution:
- MAG Series Pulse Gateway
- Pulse Connect Secure (SSL-VPN)
- Pulse Policy Secure

Results:
- Simplified access to applications from personally-owned mobile devices
- Increased productivity and employee satisfaction

The ability to work anywhere, anytime, and from anywhere is a massive convenience—and often an utter necessity in today's fast-paced, always-on world. There's been a groundswell of desire to bring your own device (BYOD) to work, but before corporate IT departments can permit this freedom, they must be deeply confident that their organizations' standards for security and privacy are upheld—especially as more people access sensitive business applications and information from their personal smartphones, tablets, and laptops. Pulse Secure is no exception.

Challenge

Juniper Networks employees use a variety of smartphones and tablets for work every day, and they often use their personal mobile devices, the company standard for smartphones, but others prefer a different platform. Despite the clamor for BYOD, most employees were doing little more than email or Internet access from their personal devices. Securely accessing business applications from their personal devices required too many extra steps, and many employees regarded the process as cumbersome. Employees had to manually configure both Wi-Fi and VPN access. And they needed to use a security token for two-factor authentication before they could access Pulse Secure's corporate network.

Juniper's IT department wanted to make BYOD easier and allow employees to access more applications, which would enable them to be more productive anywhere, anytime, and from any device. Convenience was a priority, but security had to be uncompromising. Juniper's confidential information and intellectual property had to be protected.

> "At Juniper Networks, our self-service solution for BYOD has made the lives of our employees easier and our service desk has seen a decrease in support issues relating to BYOD access."
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> – Bask Iyer,
>   Senior Vice President and Chief Information Officer of Juniper Networks

Solution

Juniper employees now have unified access to wired and wired networks, which makes self-service BYOD possible. Unified Access Control leverages Pulse Secure's MAG Series Pulse Secure Gateway, Pulse Connect Secure (SSL VPN), and Pulse Secure Unified Access Control (UAC) as well as AirWatch, a leading third-party enterprise-grade mobile device management (MDM) solution.

Unifying access control over wired and wired networks allows employees to connect seamlessly, collaborate anywhere, and enjoy more flexibility when mobile, so they can stay connected to the productivity tools and services they need—while Juniper's rigorous security standards are upheld. With a few taps on the screen, an employee is on his or her way to using and making voice or video calls with Microsoft Lync or using Microsoft Office365, Salesforce.com, or another application from anywhere and from any mobile device.
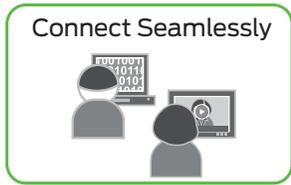
Connect Seamlessly

No need to enter random strings of numbers for a secure connection

Collaborate Anywhere

Voice and video calls from mobile, any desk and conference rooms

Mobile Flexibility

Continue your meetings from anywhere

Stay Connected

Consistent connectivity to the productivity tools and services you need

Behind the scenes, Unified Access Control leverages the Pulse Secure framework to support attribute-based network access control for mobile devices. Certificates are provisioned via the open-standard Security Assertion Markup Language (SAML), which ensures strong authentication and eliminating the need to enter random strings of numbers for a secure connection. Only mobile devices that have been enrolled in the AirWatch MDM and are compliant with the posture assessment are allowed access to corporate network. Because devices are granted access based on their security posture, more compliant devices can be given access to a broader set of applications, while less compliant devices are limited to, say, Internet access. Pulse PolicySecure (UAC) ensures that employees are placed on the right network segment when in the Juniper Networks offices, while Pulse Connect Secure (SSL-VPN) enforces the policies if the employees access the corporate network remotely.

Results

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Now that it's so easy to get connected and stay connected, Juniper Networks employees are using their personal smartphones and tablets even more to check email, make phone calls, collaborate, and access resources. The mobile experience is so flexible that an employee can use a smartphone or tablet on public transit to the Sunnyvale, CA headquarters, walk across the parking lot and into the office—and be automatically connected to the corporate network. It's a seamless transition as employees are connected and authenticated to the Juniper Networks Wi-Fi as soon as they enter the parking lot.

Next Steps and Lessons Learned

BYOD usage has risen since implementing Unified Access Control, which has resulted in greater employee satisfaction, but these kinds of standards-based integrations have another important function. Using Pulse Secure and third-party solutions for in-house deployment on Juniper's own production network allows for best practices and feedback to be incorporated into the Pulse Secure product development and support processes.

For More Information

To find out more about Pulse Secure products and solutions, please visit **www.pulsesecure.net**.

About Pulse Secure, LLC

Pulse Secure, LLC is a leading provider of access and mobile security solutions to both enterprises and service providers. Enterprises from every vertical and of all sizes utilize the company's Pulse virtual private network (VPN), network access control and mobile security products to enable end user mobility securely and seamlessly in their organizations. Pulse Secure's mission is to enable open, integrated enterprise system solutions that empower business productivity through seamless mobility.

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