FORTICLOUD OVERVIEW

FortiCloud provides unified visibility and control of all network security and Wi-Fi devices on a single dashboard. As a hosted solution, there is no additional hardware, software, or deployment time needed

Simplify Wireless and UTM Device Provisioning, Management, and Analytics with FortiCloud

Enterprises today spend too much time managing their networks, taking focus away from growing their businesses. Wireless networking for mobile access, wired networking for a range of connected digital devices, multiple methods of Internet connectivity, and other challenges make today's networks more complex to maintain. FortiCloud simplifies the deployment and management of enterprise-class network security and wireless, with centralized administration from the cloud. It gives network administrators full control and visibility without the cost and complexities of stand-alone component management.

Fortinet's FortiCloud solution handles deployment, provisioning, configuration management, and analytics for the FortiGate, FortiWiFi, FortiAP and FortiAP-S product lines. As a cloud service, it gets you up and running quickly and remotely, and then lets you maintain centralized control and visibility of your network. There is no additional hardware or software needed and it can be accessed from both local and remote locations.

FortiCloud delivers cloud-managed networking without the infrastructure buildout required by traditional solutions. The FortiCloud service is specifically built for centrally managing your FortiGate, FortiWiFi, FortiAP, and FortiAP-S devices over the web, while maintaining security of your network. Hosted by Fortinet, it provides a complete solution

The FortiCloud solution provides:

- One-touch device provisioning with FortiDeploy™

- FortiGate provisioning and policy management

- Secure guest access captive portal with social media login

- Centralized configuration management

- Real-time, location-based analytics with customizable reporting
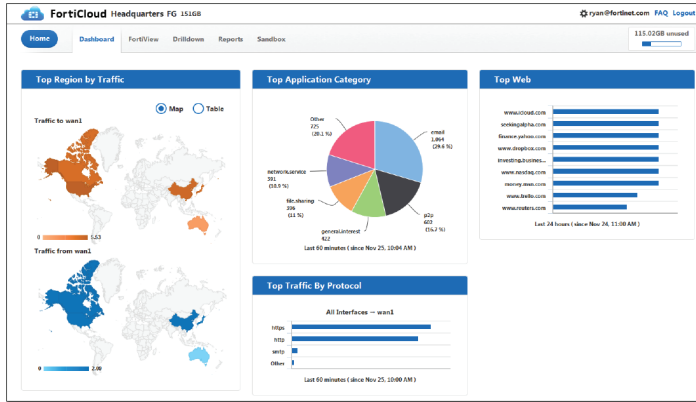
- Traffic and application visibility

FIGURE 1: FORTICLOUD MANAGEMENT DASHBOARD

without the cost and complexity of traditional infrastructure buildout. FortiCloud is ideal for businesses with growing or fluctuating network demands. It increases efficiency of your network while reducing the costs and time associated with expanding your network capabilities.

FortiCloud is a powerful, intuitive, and highly scalable solution that can scale from a few devices in a small office location to thousands of devices in a large enterprise campus. It is an ideal solution for small to large enterprises, distributed enterprises, and managed service providers (MSPs).

Benefits of FortiCloud Service

- No infrastructure buildout costs with hosted service
- Lower resource needs with an intuitive and single management dashboard for both wireless and security
- Easy to deploy: No need to install, manage, and maintain on-site controllers and other management systems. All CPE can be provisioned and deployed remotely from FortiCloud management portal.
- Scale with demand: pay-as-you-grow model lets you scale from small installations to large campus deployments
- Highly redundant and secure architecture with 24x7 support that ensures business continuity

FortiCloud Features

One-Touch Provisioning with FortiDeploy

Initial configuration of firewalls and access points can be difficult, often requiring expert staff on site to configure each device individually. FortiDeploy greatly simplifies initial configuration and onboarding by providing one-touch provisioning when devices are deployed, locally or remotely. FortiDeploy provides deployment for FortiAPs into a cloud AP network and automatic connection of FortiGates to be managed by FortiCloud. Hundreds of FortiGates or FortiAPs can be provisioned by using a bulk key in distributed environments, such as large retail or education networks. Once

a communication tunnel is established, FortiCloud leverages provisioning profiles and setup wizards to quickly configure managed devices as required.
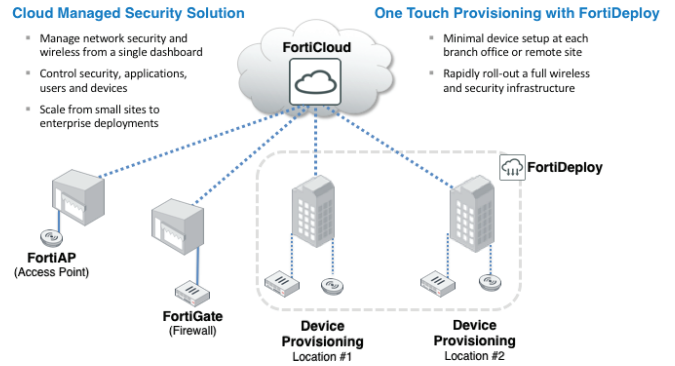

FIGURE 2: FORTICLOUD WITH FORTIDEPLOY

Centralize Configuration and Device Management

Consistent configuration of the devices within your network is essential for maintaining an optimal performance and security posture. FortiCloud provides a central web-based management console to control Fortinet devices. Device settings such as IP addresses or SSIDs can be centrally configured for individual devices or pushed to multiple devices. Configuration backups are kept in FortiCloud to assist with replacement or recovery efforts. Device firmware updates can also be centrally managed and controlled, ensuring uniform policy enforcement and allowing you to take advantage of the latest features.

Cloud Manage UTMs

Remotely provision your FortiGate device and manage security policies in minutes through low-touch provisioning. This provides functionality that enables you to apply different security and bandwidth settings for different groups of users or devices. Synchronize security settings across thousands of sites using FortiCloud management dashboard.

Cloud Manage Secure Wireless Access Points

FortiAP-S Indoor Access Points are cloud-managed access points with enterprise-class capability. The FortiAP-S access point delivers gigabit performance, security, and reliability to meet the growing demand of pervasive Wi-Fi for small to large enterprise customers and distributed enterprises.

With Fortinet's award-winning FortiGuard technology embedded in the AP, the FortiAP-S series provides the most

compact solution for complete content and application security provisioned and managed remotely from the cloud through FortiCloud. FortiCloud simplifies provisioning of access points and other Fortinet security devices at remote sites so there is no need for on-site IT expertise. FortiAP-S series access points include FortiCloud registration functionality in their firmware, which enables zero-touch provisioning. When installed, the APs can discover and connect to FortiCloud and provision themselves automatically.

Manage Traditional Wireless Access Points

Fortinet traditional access points, the FAP series, are also cloud-managed access points with enterprise-class capability. They integrate with FortiCloud for centralized management and reporting, ensuring consistent and effective policy enforcement and compliance. With FortiDeploy, access points are easily and quickly provisioned and deployed into a FortiCloud AP network, significantly reducing deployment time.

Location-Based Analytics with FortiPresence FortiPresence delivers real-time, location-based analytics. Configuration is applied on the FortiCloud dashboard and statistics are received via an API push from each AP. FortiPresence analytics include functionality to determine real-time location metrics for total visitor traffic, and visitor dwell time, as well as providing heat maps with animated flows. It provides retailers with the tools they need to better understand and influence consumer shopping behavior.

Network Health- and Use-Based Analytics

The FortiCloud dashboard provides visibility and control of the health of the wireless network. FortiCloud also provides complete Layer 7 application visibility, with detailed information on the applications being used and by whom, bandwidth consumption by AP, client, or application, and much more. FortiCloud analytics include granular drilldown and filtering functionality to instantly determine how applications, websites, users, and threats are impacting your network. To aid you in management and compliance reporting, detailed pre-configured and custom reports are available, including specialized PCI DSS compliance reports. They can be run on-demand or scheduled for certain times and distributed by email to interested parties.

Cloud Manage Guest Wi-Fi

Many distributed enterprises need to provide secure Internet access for guests and visitors. FortiCloud enables you to fully control how guests access your wireless network and includes features such as customizable captive portals for authentication. It also allows businesses to associate any

number of SSIDs with a fully customized captive portal, and to operate multiple branded captive portals simultaneously if needed. Guests can connect to an open SSID, but the AP responds to the client's first HTTP request with a webpage requesting user name and password. Secure guest Wi-Fi can also be set up by configuring network security to WPA2-PSK.

Connect to Guest Wi-Fi Using Social Media

FortiCloud also provides a social media captive portal. Visitors can easily connect to guest Wi-Fi by checking into their Facebook, LinkedIn, or Twitter accounts. Social media login greatly simplifies onboarding of guests. There is no need to generate codes or temporary login passwords.

FortiGuard Sandboxing to Protect Against APTs

If you're deploying FortiGates, you can harness the power and expertise of FortiGuard Labs' global threat research team to inspect potentially malicious files. FortiGate firewalls can upload suspicious files to FortiCloud, where it will execute the file in a sandboxed environment and analyze the resulting behavior for risk. If the file exhibits risky behavior or is found to contain a virus, the verdict will be returned to the device that submitted the sample.

The FortiCloud console enables administrators to view the status of any suspicious files uploaded: Pending, Clean, Malware, or Unknown. The console also provides data on time, user, and location of the infected file for forensic analysis.

FortiCloud for Managed Service Providers

The explosion of mobile devices, applications, video, and bring your own device (BYOD) in the workplace is driving substantial opportunities for managed service providers (MSPs) to help organizations deploy end-to-end network solutions with value-added services.

Organizations are also increasingly looking to offload network deployment, management, and ongoing operations to a trusted partner. This gives MSPs the ability to deliver network services such as end-to-end network management, monitoring, configuration, and troubleshooting handled by the service provider. This gives MSPs new recurring revenue opportunities by providing value-added services.

Before the advent of cloud-managed services, managing a customer's network was complex and costly. MSPs needed separate security appliances, controllers, wireless access points, and management consoles for each location and could not integrate all their customers' networks under a single dashboard. With the right cloud platform, managing the

network components becomes considerably easier and more profitable for MSPs.

FortiCloud provides everything required to fully manage FortiGate, FortiAP, FortiAP-S, and FortiWiFi products from a single centralized management dashboard. FortiCloud allows MSPs to remotely manage wireless network access and network security at any location, from anywhere, via the cloud. This gives MSPs wishing to offer a managed service an exceptionally easy way to get started, without investing in infrastructure along with low capital and operational expenditures and value-added incremental revenue.

Key Benefits for Managed Service Providers (MSPs):

Centralized Management and Reporting

- Easily manage multiple sites from a single web-based console
- Manage customer networks at any location from anywhere
- Easily manage BYODs
- Get analytics on user behavior, traffic, and utilization patterns, plus immediate alerts

Centralized Management and Reporting

- Support hundreds of tenants from a single FortiCloud platform
- See a tenant-specific view for each customer
- Enable secure and private data for each tenant
- Provide configuration, monitoring, troubleshooting, analytics, and applications for each tenant

Centralized Management and Reporting

- Significantly lower CAPEX and TCO
- No infrastructure costs to maintain a multi-tenant, cloud-hosted management infrastructure
- Rapid time to market

Centralized Management and Reporting

- Enterprise-grade features including multiple SSIDs for different groups of users, secure guest access, and branded public hotspots
- Flexible and scalable to quickly meet business demands
- Reliable service delivery through automated tools

Opportunity for Value-Added Services

The FortiCloud solution enables MSPs to extend enterprise-class features to small and mid-sized businesses. Solutions including BYOD, wireless security, location analytics, and threat detection services are available and can be deployed to organizations of all sizes with minimal operational cost and complexity.

FortiCloud also provides significant opportunities for recurring value-added services, so MSPs can offer complete managed services, 24x7 monitoring, end-user help desks, network design and recommendations, and installation services.

These benefits make FortiCloud an extremely attractive solution for MSPs looking to grow their service offerings with minimal upfront investment.

Summary

Only Fortinet delivers a complete, proven, and scalable solution that meets security and network challenges for any size network. Fortinet's cloud management service combines ease of deployment with a high-performance, scalable, and cost-effective way to meet the growing demands of IT organizations. Fortinet solutions can scale from small to medium enterprises, branch offices, or campuses to distributed enterprises with thousands of sites.

FortiCloud gives enterprise customers and small MSPs an easy way to enable WLAN and security management from a unified cloud platform. The solution significantly reduces the CAPEX and lets customers get up and running quickly.

No other vendor offers the same level of integration between Wi-Fi management and security in the cloud.

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