SOLUTION BRIEF

Fortinet and Cloudi-Fi Security Solution

Enriching Secure Access and SD-WAN With Guest Wi-Fi Services for a Perfect Match To Enable Digital Transformation

Executive Summary

Cloudi-Fi and Fortinet have partnered to provide advanced networking and security capabilities and deliver a compliant, secured, and personalized digital journey to users. The solution offers Wi-Fi-as-a-Service (WaaS) with value-added features such as a personalized captive portal in which you can interact with your audience, marketing operations, and analytics by connecting with customer relationship management (CRM) databases. As a 100% cloud-based solution, Cloudi-Fi is easy to use, brings value, and fits any Fortinet infrastructure environment without requiring any additional installation.

Challenge

With the emergence of cloud services and cloud adoption by enterprises, Wi-Fi has definitely evolved, positioning itself as a new communication channel as well as a tool to secure users' access in their digital transformation journey.

Cloudi-Fi and Fortinet have established a technology partnership to provide enterprises and hotspots with secured and compliant guest Wi-Fi with value-added, personalized captive portal features to interact and communicate with their audience.

Joint Solution

The integration of the Cloudi-Fi product and Fortinet, enabled through the Fabric-Ready Program in the Fortinet Open Fabric Ecosystem, provides secure Wi-Fi through authentication and user profiling, addresses compliance concerns with native regulations and data privacy rules, delivers an enriched and personalized guest Wi-Fi captive portal, and adds value to projects with specific integrations (such as Chatbot, online payment and billing, enterprise directories, and other integrations in the cloud).

Joint Solution Components

Cloudi-Fi offers **compliance** with all existing regulations and data privacy. Enterprises and hotspots also benefit from **value-added captive portal features**, with marketing tools and exclusive third-party services to extend the customer digital strategy from the web to Wi-Fi, and transforms Wi-Fi into a powerful communication channel to interact with their audience. In addition, the solution provides unmatched **user experience** with personalized Wi-Fi offers. In tandem with Fortinet, the partnership brings **advanced networking and security services to the edge** through user access security, authentication, and profiling, and guarantees the service thanks to customizable options such as URL and advanced content filtering.

Joint Solution Components

- Fortinet FortiGate Next-generation Firewall (NGFW)
- Cloudi-Fi

Joint Solution Benefits

- Compliance and data privacy management
- Secured and authenticated user access with Cloudi-Fi user profiling and Fortinet advanced security
- Value-added captive portal feature with marketing tools and exclusive third-party services
- Unmatched user experience with personalized Wi-Fi offers
- Comprehensive security protection using the FortiGate NGFW and the Fortinet Security Fabric

FABRIC-READY

The challenges associated with enterprise Wi-Fi continue to grow. With Internet of Things (IoT), bring your own device (BYOD), and a highly mobile workforce, it's critical for IT organizations to manage their access points and remain resilient against evolving security threats, whether at the corporate office or at remote sites.

Fortinet Secure Access converges networking and security into a secure, simple-to-manage architecture with a single focal point for management and configuration. By leveraging Security-Driven Networking, Fortinet allows you to secure the local-area network (LAN) edge without the need for costly and complex licensing schemes. Fortinet offers secure wireless LAN within a flexible architecture that can be used across SD-Branch deployments, or within a single large site. FortiAPs are Fortinet Security Fabric enabled, providing the broad visibility, automated protection, and integrated threat intelligence required to protect the valuable assets and data of organizations worldwide.

Fortinet FortiGate next-generation firewalls (NGFWs) enable Security-Driven Networking and reduce cost and complexity by eliminating point products and consolidating industry-leading security capabilities such as secure sockets layer (SSL) inspection, including the latest TLS 1.3, web filtering, and intrusion prevention system (IPS), to provide full visibility and protect any network edge. Fortinet NGFWs uniquely meet the performance needs of hyperscale and hybrid IT architectures, enabling organizations to deliver optimal user experience and manage security risks for better business continuity. The FortiGate NGFW delivers integrated software-defined wide-area networking (SD-WAN) and security capabilities in a single device.

Joint Solution Integration

Figure 1 shows the Cloudi-Fi integration with Fortinet. First the guest user connects to the internet through an open service set identifier (SSID) configured on the Fortinet FortiGate. A splash page or captive portal pops up immediately on the user's device, and the user is redirected to the Cloudi-Fi portal while she/he is authenticated. Cloudi-Fi hosts the captive portal, handles guest authentication, and manages the access logs. The guest is invited to authenticate with her/his preferred method. Once authenticated, the user is allowed to browse the internet.

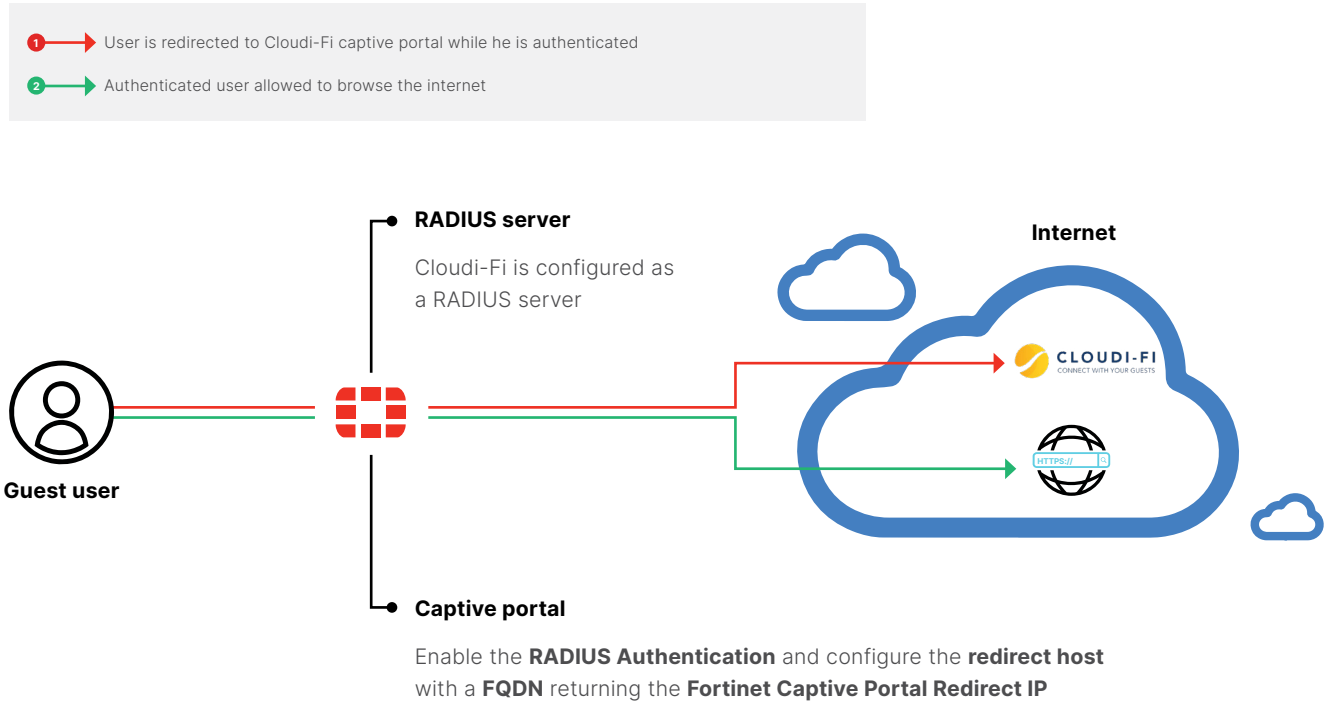

Figure 1: Cloudi-Fi integration with Fortinet.

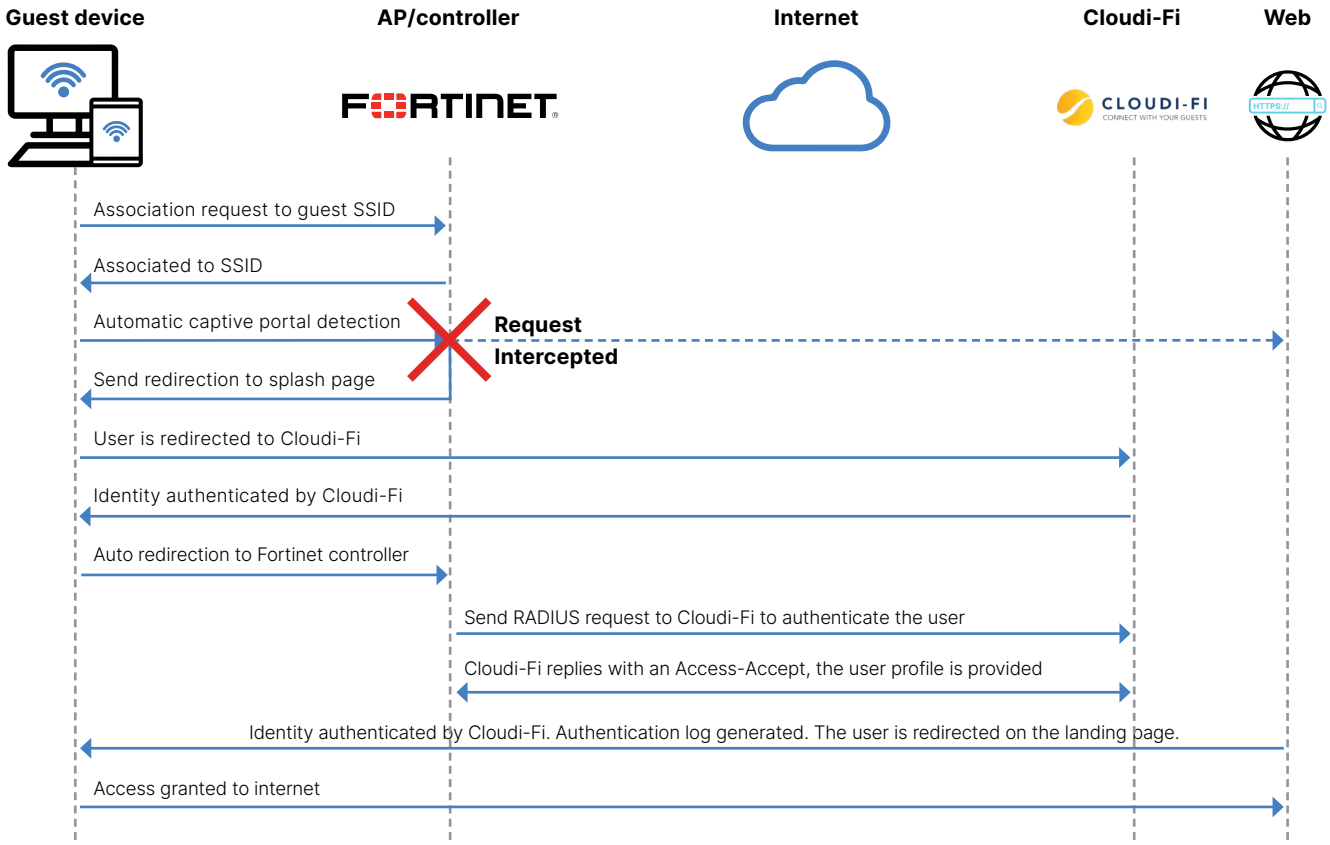

Figure 2: Authentication workflow.

Joint Use Cases

Use Case 1: Guest Wi-Fi for new corporate network users

Cloudi-Fi integration with Fortinet allows enterprises to provide secure and compliant Wi-Fi access to employees, partners, and visitors with either corporate devices or BYOD. The solution addresses compliance with local regulations and laws via Cloudi-Fi's offering, and Fortinet provides security protection. The solution provides the same homogeneous user experience across sites worldwide, with personalized captive portal management. The solution natively supports software-defined wide-area network (SD-WAN) migration when the move from several regional internet breakouts to a distributed network of internet breakouts results in increased corporate network use though Wi-Fi connectivity.

Use Case 2: Hotspots guest Wi-Fi as a marketing channel

Cloudi-Fi integration with Fortinet allows hotspots to provide secure and compliant Wi-Fi access to its guests and visitors. The solution addresses the compliance with local regulations and laws via Cloudi-Fi's offering, with Fortinet providing security protection. The customers' data collected by Cloudi-Fi also develops direct-to-consumer strategy by targeting customers in hotspots and retail with personalized marketing communications through personal endpoint devices. Wi-Fi is transformed into a marketing and monetization channel for special events and promotions to attract more customers.

About Cloudi-Fi

Founded in France in 2015, Cloudi-Fi reinvents Wi-Fi services to define the connectivity standards of tomorrow: transparency, security, compliance, and full customization.

The Wi-Fi platform is easy-to-use and completely independent of the hardware suppliers. The cloud-based technology provides a single, scalable interface to securely and flexibly manage a large number of diverse and simultaneous connections. It already covers more than 75 countries and has millions of unique digital identities registered.

By strengthening compliance and security through easy installation, the Cloudi-Fi solution pushes the boundaries of creativity and delivers unique insights and analytics to brands and customers. Learn more at https://www.cloudi-fi.com/.

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