

# Secure Cloud-Based Authentication Built for Modernized Mist Network



Seamlessly create RADIUS-based authentication in the cloud leveraging the JumpCloud® Directory-as-a-Service®, allowing end users to use one password across systems, applications, and Mist networks.

## CHALLENGE

RADIUS authentication is a standard protocol for ensuring employees, contractors, and guests can all securely access the organization's network. Building and maintaining individual RADIUS servers to authenticate different users across different offices is burdensome, and hidden work yet is highly visible when not implemented correctly. This becomes increasingly challenging in growing BYOD environments.

## SOLUTION

Mist and JumpCloud have partnered to deliver an integrated solution that enables administrators to seamlessly create cloud-based Radius-as-a-Service to authenticate users across your organization using their same secure credentials from JumpCloud or Active Directory.

## BENEFITS

When users enter the networking coverage, they can authenticate dynamically across access points using their directory password through the RADIUS protocol. This reduces friction for users who travel between multiple sites, either with their own devices or those issued from the company, while increasing security for IT administrators who can apply policies across groups of users. Granting, revoking, and modernizing all through the browser.

## Secure cloud-based authentication built for modernized Mist wireless infrastructure

### THE CHALLENGE

Enterprise IT teams are shifting from on-premises, domain-bound identities to the needs of a modern cloud workforce. Requiring dynamic access to systems, applications, and, most importantly, the networks to access them. As employees become more remote and flexible, the ability to quickly enable and disable network access through groups of identities becomes key to productivity. Yet the implementation of the RADIUS protocol for authentication remains burdensome, forcing IT teams to hold on to local server closets.

### THE MIST-JUMPCLOUD SOLUTION

Mist, a leader in artificial intelligence (AI)-driven networking, and JumpCloud have partnered to deliver an integrated solution to reduce access friction of end-users and accelerate implementation for administrators. The combined Mist-JumpCloud solution provides secure authentication and access, all from the cloud.

### Features and Benefits

The joint solution from Mist and JumpCloud delivers:

- Reduce user experience friction of joining secure networks
- Drastically reduce time spent to create, bind and maintain user access to networks
- Minimize or eliminate business impact through dynamic Mist policies



**SOLUTION COMPONENTS**

**The Mist Solution Components**

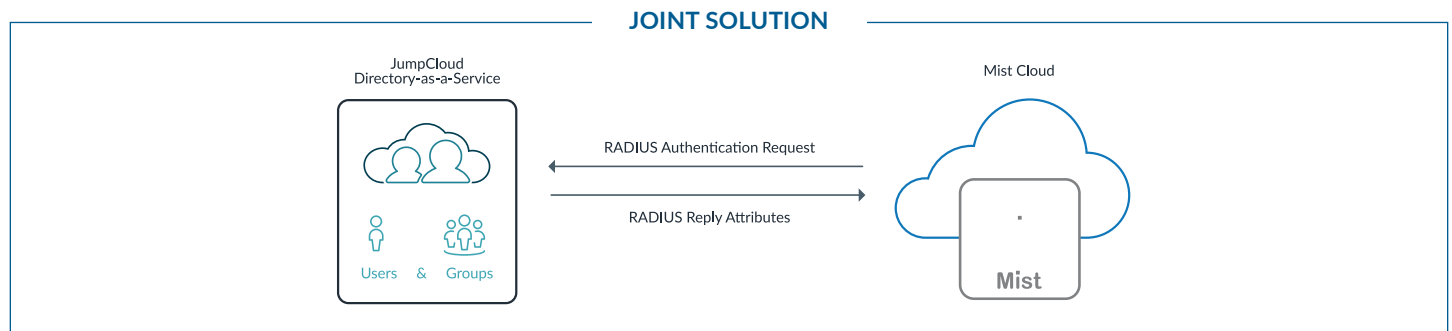
Mist cloud: All wireless deployment, operational, and management functions are handled via the Mist cloud, which delivers the following Wi-Fi and virtual Bluetooth LE services:

- Wi-Fi Assurance: Includes user service levels, anomaly detection, automated event correlation for troubleshooting, dynamic packet capture, policy configuration, guest WLAN access, and more
- Marvis Virtual Network Assistant: Provides natural language queries with integrated help desk functionality for rapid and simple root cause determination and problem resolution while realizing the self-driving network with its Marvis Actions framework
- Mobile user engagement: Pushes location-based information to mobile users, such as turn-by-turn directions and proximity notifications
- Asset location: Find high-value resources such as shipping pallets, wheelchairs, security personnel, etc.
- Mist Access Points are deployed on premises for Wi-Fi, BLE, and/or IoT access.

**The JumpCloud Solution Components**

Directory-as-a-Service: A cloud-based directory that securely manages and connects users to the Mist cloud, which delivers the following network security

- Radius-as-a-Service: Instantly creates a new cloud-based RADIUS server in the JumpCloud administration portal
- JumpCloud System Agent: Bind users and their credentials across Mac, Windows, and Linux to join Mist WiFi networks.



## Combine AI-Driven Wireless from Mist with Secure Network Authentication from JumpCloud to Elevate User Experience

Enterprises are relying on the network for nearly every aspect of their business. Maintaining secure access to the right people in the right location becomes vital not only for the security of the organization but also for frictionless user experience. As networks upgrade to AI-Driven Mist, fluid and secure authentication become a must. Leveraging the JumpCloud Directory-as-a-Service, IT can easily create, bind, and authenticate users to give the right people the right access and ensure your network is protected.

**Next Steps**

Mist, a leader in artificial intelligence (AI)-driven networking, and JumpCloud have partnered to deliver an integrated solution to reduce access friction of end-users and accelerate implementation for administrators. The combined Mist-JumpCloud solution provides secure authentication and access, all from the cloud.

**About Mist**

Mist built the first AI-driven, microservices cloud-based Wireless LAN (WLAN), which makes Wi-Fi predictable, reliable, and measurable and enables scalable indoor location services like wayfinding, proximity messaging and asset visibility. In addition, Mist’s AI technology plays a key role in bringing automation and insight across the full IT stack, delivering seamless end-to-end user experiences and substantial IT cost savings. In 2019, Mist was acquired by Juniper Networks and operates as a business unit focused on the AI-Driven Enterprise which combines Mist’s next-generation wireless platform with Juniper’s best-in-class switching, routing, security and SD-WAN solutions to deliver unsurpassed end-to-end user and IT experiences.

**About JumpCloud**

JumpCloud Directory-as-a-Service is Active Directory and LDAP reimaged. JumpCloud securely manages and connects users to their systems, applications, files, and networks. Try JumpCloud for free up to 10 users at [www.jumpcloud.com](http://www.jumpcloud.com).

