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**RADIUS** is so 90s.

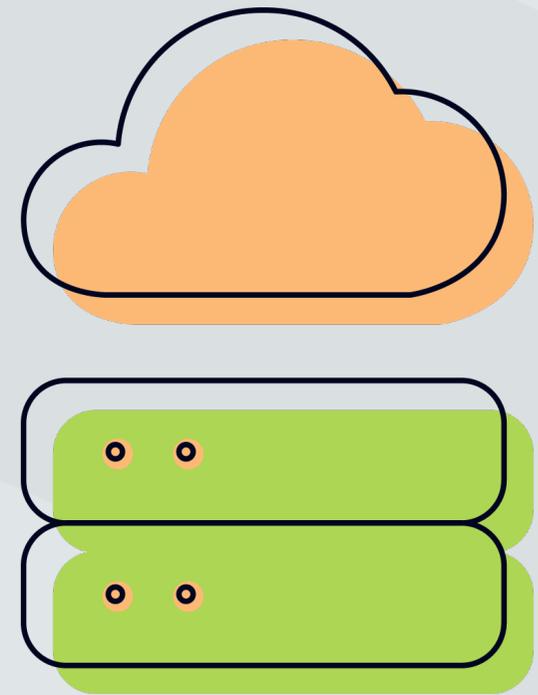
But it **rocks!**

# Why RADIUSaaS?

Accelerate your cloud journey with cloud-based RADIUS

## You are looking...

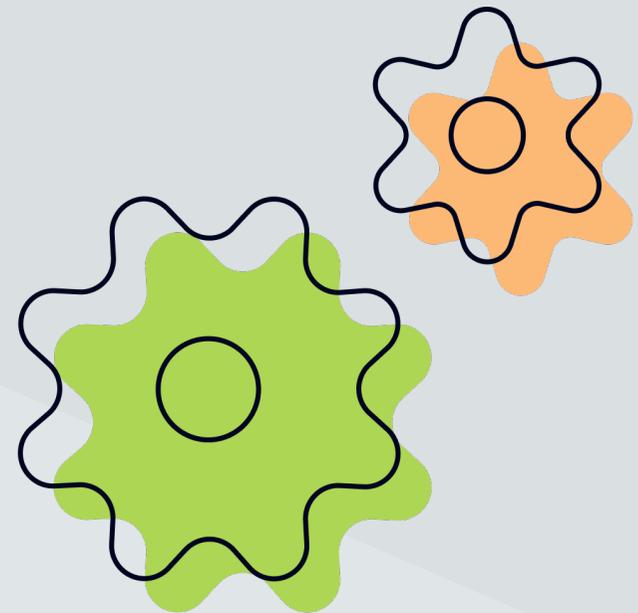
- ✓ for a trusted, secure and highly-available cloud-based RADIUS service
- ✓ to get rid of your on-premise AAA servers
- ✓ for a single service for a multi-vendor network
- ✓ to get rid of pre-shared keys (PSK)
- ✓ to consolidate your AAA infrastructure across different sites
- ✓ for automated patching, updating, and scaling



# Authentication Options



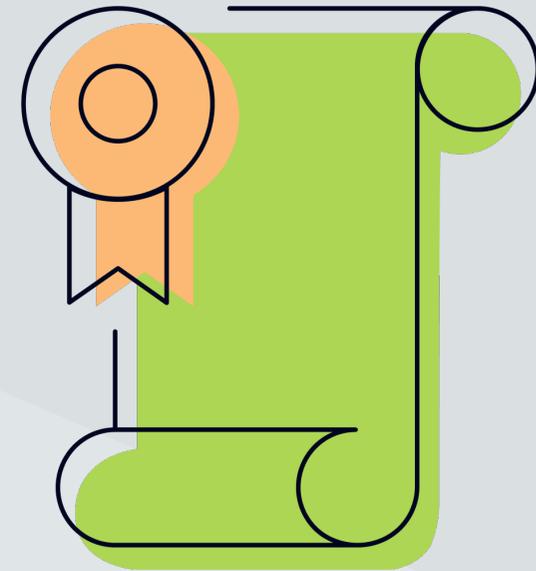
- Main use-case: Certificate based authentication (CBA)
- Special use-cases: Credentials based authentication (username & password)
  - Special devices
  - BYOD
  - Guests



# Certificate-based Authentication (CBA)

Never trust – always verify

- Authenticating with certificates means that **no secret credentials** are ever transmitted - passwords cannot be stolen because they are not used
- X.509 certificates are a well established standard with unparalleled compatibility and adoption
- Managing certificates with popular MDM solutions is easy!  
(Auto-enrollment | Auto-renewal | Auto-revocation)
- Ensure only trusted devices or users receive a certificate
- CBA is phishing-resistant
- Revoke certificates to block access in real-time





# Username-password Authentication

Only use when necessary!

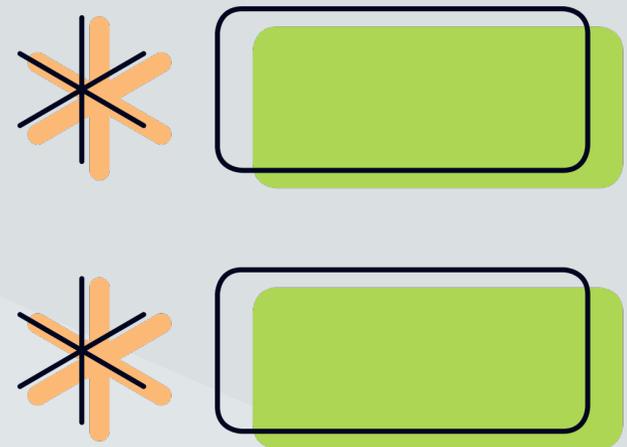
## Compatibility

Manage username/password accounts locally<sup>1</sup> in scenarios where certificates cannot/are impractical to be used for authentication:

- BYOD
- Legacy & IoT devices (printers, room systems, ...)

## Guest Access for your Network

- Empower your employees to manage guests using self service
- Your employees can provide, renew or revoke access



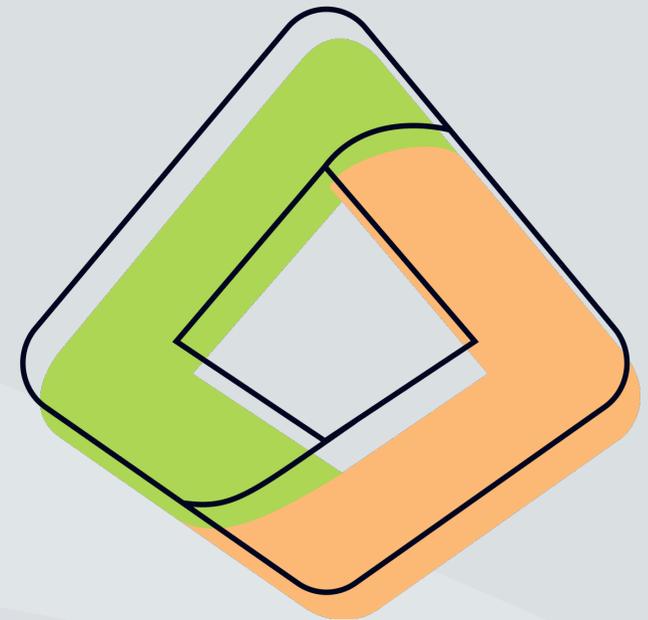
<sup>1</sup>Does not support integration with Cloud Identity Providers such as Entra ID.

# No Entra credentials?

More precise: **Why not using Entra credentials (username & password) for network authentication?**

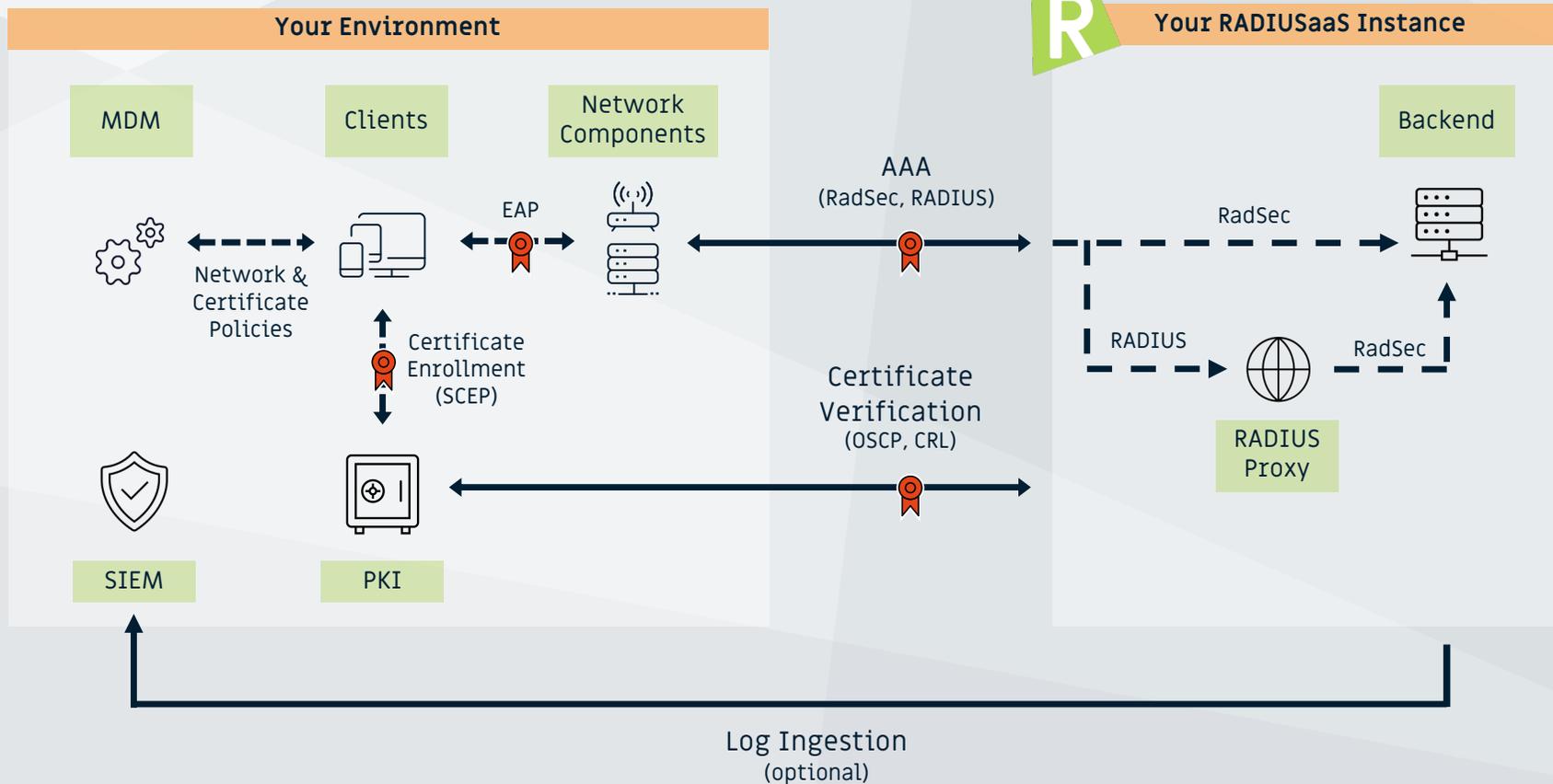
- You want your users to use the Entra credentials as less as possible (Passwordless)
- Inconvenience
- Security
- Credentials would have to be transported within the RADIUS protocol

**P.S.:** We are using Entra for the authentication to the RADIUS web-portal. But from a technology & security perspective, this is a totally different approach!



# Architecture

## Overview



# Architecture & Administration

## Service Design



### High-level Design

- Hyperscaler **independent, highly-available**  
Kubernetes-based **zero-trust** service
- Options for geographic and Hyperscaler  
redundancy  
Active-Active Configuration
- Multiple hosting locations available around  
the world
- Scalability 50 to >100 k users

### Administration

- Admin logon via Entra ID SSO  
Multiple roles available  
Conditional Access policies enforced
- No additional customer tenant  
permissions required
- Automatic patches and updates

# RADIUS vs. RadSec

Protocols at a glance



	RADIUS	RadSec
<b>Transport Protocol</b>	UDP	TCP
<b>Authentication &amp; Encryption</b>	RADIUS Shared Secret (symmetric)	mTLS (asymmetric)
<b>Support for EAP</b>	Yes	Yes
<b>Authenticator Compatibility</b>	Supported by all manufacturers	Supported by major manufacturers (incl. Cisco, Meraki, FortiNet, Aruba)

**We recommend RadSec, when available!**

# Vendor, PKI and MDM Interoperability



## Does RADIUSaaS fit into my environment?

- ✓ All relevant AAA protocols supported  
(RADIUS | RadSec)
- ✓ Works with any WAP + Switch vendor  
... that supports EAP
- ✓ Works with VPN Gateways  
... that support EAP-TLS-based AAA via RADIUS  
(Azure WAN Gateway | Microsoft RRAS | ...)
- ✓ Compatible with popular PKIs  
(SCEPman | Intune Cloud PKI | ADCS/NDES | ...)
- ✓ Seamlessly push Wired or WiFi configurations via MDM  
(Microsoft Intune | Jamf Pro | Kandji | Mosyle | Google Workspaces)
- ✓ ... to various OS platforms  
(Windows | macOS | iOS | iPadOS | Android | ChromeOS)





# Deployment & Configuration

Configure your cloud RADIUS in no time!

## Step 1 – Service Provisioning

- We will deploy your RADIUSaaS instance

## Step 2 – Establish Trust

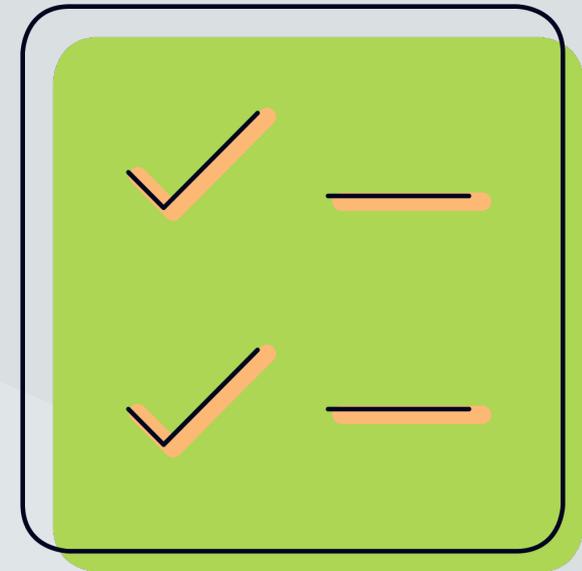
- Define the CA(s) you want to trust for client authentication

## Step 3 – Configure your Network Equipment

- Enable 802.1X on your WAPs and switches and point them to your RADIUSaaS instance for AAA

## Step 4 – Push Networking Profiles to your Endpoints

- Set up policies in your preferred MDM solution to automatically configure WiFi, LAN or VPN connections



# Advanced Features

Unleash the full potential of RADIUSaaS



## Insights

Built-in dashboards provide detailed authentication log analysis.



## Log Exporter

Export logs to your environment:

- Log Analytics
- Webhook (JSON)
- Microsoft Teams Channel



## Rule Engine

Provides you with enhanced controls for access requests:

- Limit access to certain credential types (e.g. certificates) and CAs
- Ensure requests originate from your infrastructure (SSID and MAC filters)
- Implement static or dynamic VLAN steering

# Trials

Test RADIUSaaS without strings attached

**Contact us for a free trial:**

<https://www.radius-as-a-service.com/start-now/#try>

- ✓ Full features / no limitations
- ✓ Up to 50 users and 30 days
- ✓ Easy conversion to production

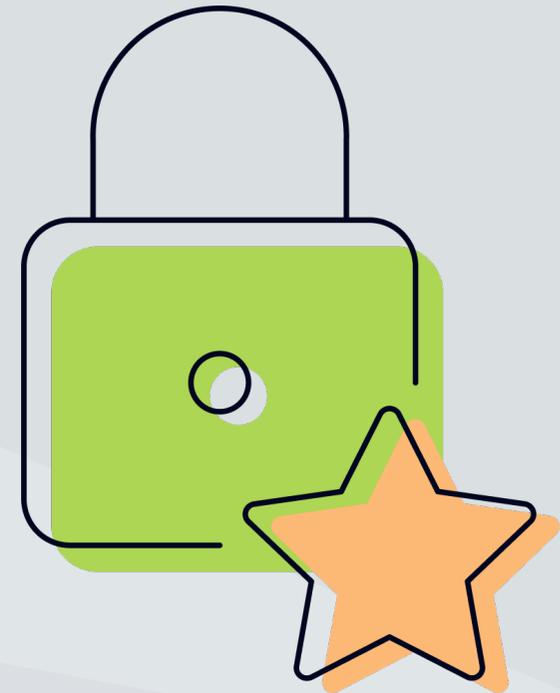


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# Licensing Model

Full flexibility for your scenario

- **Trust-based** licensing model
- User-centric (5 mobile + 5 stationary devices)  
Options: Device-based or hybrid licensing
- Full support and incident response included  
Germany and Australia based
- Discounts for NFPs and charities
- Flexible subscription terms  
1 year | 1 month
- Add-ons  
Additional Service Instances | Additional RADIUS Proxies  
(Geo- and Hyperscaler Redundancy)





# Pricing and where to buy?

Buy on your preferred transaction platform

- ✓ Volume Discounts automatically applied
- ✓ Minimum number of licenses: 50

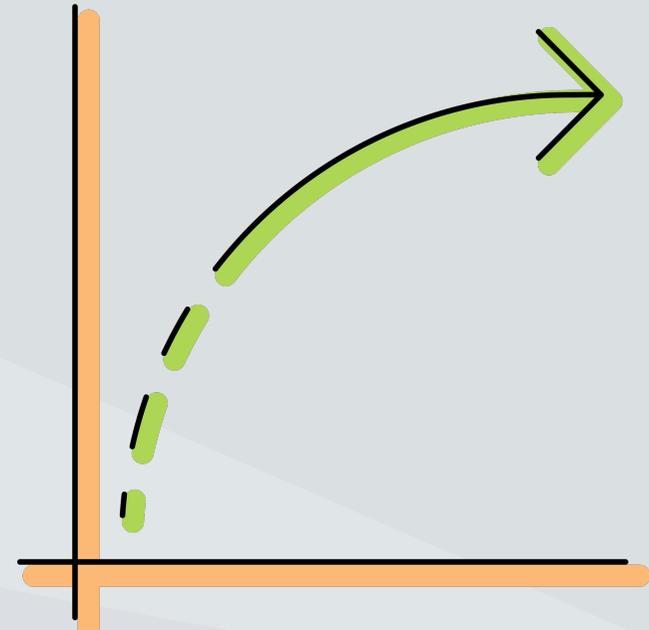
## Buy RADIUSaaS on ...



- ✓ Available in > 50 Countries
- ✓ Billed against your Azure subscription (Pay-as-you-go, EA, ...)
- ✓ Microsoft is likely to be listed in your supplier database



- ✓ Available in 180+ countries
- ✓ Flexible and localized payment methods  
Invoice (30 days net) | Credit Card PayPal |  
ACH Credit | ...



# The RADIUSaaS & SCEPman Bundle

Your cloud-based network authentication dream team

- **Seamless integration** between CA and RADIUS simplifying **deployment** and configuration
- **Real-time** revocation via OCSP leveraging **Object-Binding** Technology  
Optionally: Enforce device compliance for network access
- A service in your realm – **No external tenant permissions** required



Get both – save 25%

 Microsoft  
 Azure Marketplace







# RADIUSaaS

[www.radius-as-a-service.com](http://www.radius-as-a-service.com)



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