

The Benefits of
**Cloud vs. On-Premises
Two-Factor
Authentication**



Duo Security is
now part of Cisco.

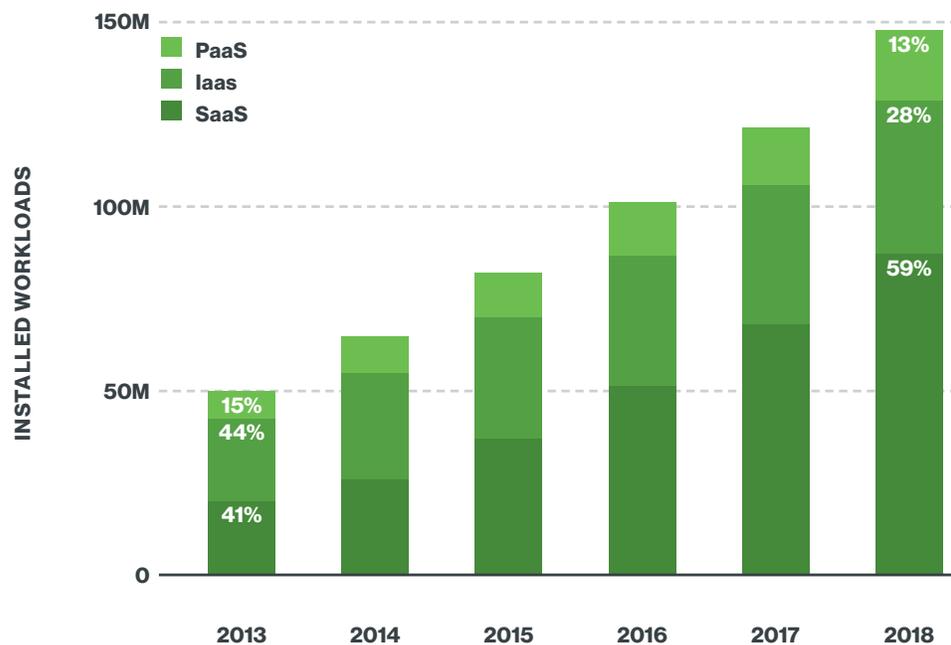


The Rise in Cloud Adoption

Enterprises are rapidly adopting cloud applications, such as Salesforce, Office 365 and Google Apps due to significant cost savings, ease of deployment and employee productivity benefits.

But they also face increased security risks when moving to the cloud — IT can't keep track of who is accessing cloud applications, from where, and using what kind of devices.

PROJECTED CLOUD GROWTH



SOURCE: Cisco Global Cloud Index, 2013–2018

Securing the Cloud

One way to mitigate application access risk is by deploying two-factor authentication (2FA) to protect cloud application logins. Traditional, on-premises solutions have been expensive to deploy, difficult to maintain and a pain for administrators.

However, modern, cloud-based solutions can be deployed within hours, with low-to-no maintenance required. They also offer a frictionless authentication experience - users can log in by simply approving a push notification sent via a mobile application.

Cloud vs. On-Premises Two-Factor Authentication

The benefits of cloud-based two-factor authentication include:

Stronger Security

Cloud-based two-factor is designed to better protect your applications.



Architecture

By keeping your primary authentication on-premises and secondary authentication in the cloud, you can ensure a breach in one system won't affect the other.



Security Patches

Two-factor solutions need timely patch management to protect against the latest security threats. Updates for on-premises solutions are released only a few times a year, and require IT resources to manage. Cloud two-factor rolls out patches automatically, without IT intervention.



Support Everything

On-premise two-factor solutions are built using older software architecture that's hard to integrate with. Cloud two-factor authentication comes with out-of-the-box integration for many on-premises and cloud applications, allowing you to ensure there are no gaps for attackers to exploit.

Lower Total Cost of Ownership

The cost savings of switching to cloud two-factor authentication can be as high as 60 percent.



Setup

Cloud-based two-factor eliminates the need for on-premises appliances and hardware – saving on installation, racking/stacking, cabling and other related costs.



On-going

Cloud two-factor has no on-going maintenance or service costs, eliminating time to patch and update, freeing up IT time and resources.



Data Centers

Cut operational costs, like power, cooling, rack space and IT op costs with cloud solutions. Additionally, cloud solutions have built-in backup and redundancy, while on-premises solutions require hardware and software.

Easier to Deploy & Maintain

Cloud two-factor solutions allow for faster time-to-security via easy deployment, scalability and maintenance.



Deployment

Integrating cloud two-factor authentication with other applications takes hours, not days – securing employees faster so they're secure sooner. On-premises two-factor can take weeks to ship and months to configure, requiring expertise for set up.



Scalability

Cloud two-factor solutions allow you to easily add and remove users, scaling at an unlimited rate. On-premises solutions require additional equipment, appliance configuration and hardware token rollout.



On-going Maintenance

There's no need to schedule downtime for patches and updates – with cloud two-factor, updates are rolled out automatically, saving IT administrators time and resources.



Protect all users, all devices and any application with Duo's **Unified Access Security (UAS).**



Trusted Users

Verify users with advanced two-factor authentication and enforce user access policies to limit access to applications.



Trusted Devices

At login, Duo checks the security health of every device – including employee-owned devices. Customize access policies based on device risk.



Every Application

Protect cloud and on-premises applications, and simplify access with Duo's secure single sign-on (SSO) for both users and admins.



The Most Loved Company in Security

North America

866.760.4247

Europe, Middle East & Africa

+44 8003 585 309

Contact Us

duo.sc/contactduo