Secure Hosting in the Jamf Cloud Powered by AWS

Put your company and user data in reliable hands

Companies used to store their data in physical servers, before the arrival of cloud hosting services transformed how we look at managing and securing devices.

Today's technology and device management plans routinely consider storing data in Infrastructure as a Service (IaaS) solutions, migrating onpremises servers to the cloud — and for good reason.

Despite initial skepticism regarding its security and compliance, the cloud has proven to be a necessary tool for digital transformation, company growth and innovation. The cloud is flexible, scalable, time- and cost-efficient and above all, secure.

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powered by aws

Jamf Cloud, powered by Amazon Web Services (AWS)
More time for innovation and progression

The benefits of Jamf's AWS-powered cloud infrastructure go beyond the technical aspects. Eliminating the need for manual checks, Jamf takes care of everything behind the scenes and allows for more freedom and progressiveness in your IT department. But how exactly does Jamf Cloud save time?

Ongoing security and update management is a repetitive, manual task, required to be carried out over and over again by an IT admin. While this has long been part of an IT admin's job, the opportunity of switching to Jamf Cloud now means admins can focus their work on more forward-thinking and innovative ideas and tasks. Similarly, the administration costs of database administration, ongoing security checks — such as server monitoring and updates — as well as backup administration and testing are highly time-consuming. Particularly in the beginning, significant effort must be invested in finding an alternative location for disaster recovering and establishing a response team for this purpose.

These are time-saving factors which most organizations and IT teams will benefit from. Depending on specific requirements, the list could be significantly longer for your daily operations without you even realizing it. Eliminating such tasks improves your daily work routine and more importantly allows you to place a larger focus on future-focused efficiencies to your operations.

The best part? Automations also ensure human mistakes, often made in repetitive, manual tasks, cannot be made in the first place. This not only gives you and IT peace of mind when stakes are high, but also ensures responsibility and accountability for data storage, infrastructure and security.

It is no exaggeration to state that migrating from an on-premises server to Jamf Cloud changes how admins work on a fundamental level by allowing its users to take the initiative to modernize workflows and meet the progressing tech needs of the organization.

Jamf Cloud Technical Advantages

Before we get carried away with the benefits of Jamf Cloud for you and your organization, let's take a step back and look at the differences between the two deployment methods in more detail. This overview illustrates how Jamf Cloud saves on employee resources, works across all skill sets and largely automated functions.

	CLOUD	**ON-PREMISES**
Software Distribution Point	Built-in cloud distribution service for global package distribution	Customer provides servers for distribution points
Server Uptime	Jamf guarantees 99.9% uptime with 24/7 availability	Uptime dependent on server hardware and environment
Regional Cloud Locations	United States (East & West), London, Germany, Tokyo and Sydney	Customer provides servers
Jamf Pro Upgrades	Automatically updated with every release	Manual upgrade process required for each udate (6-10 times per year)
Disaster Recovery	Daily backups stored for 30 days	Customer responsible for configuring, testing, maintaining backups
Service Monitoring	All cloud services are monitored 24/7/365 with robust, proven, industry standard tools by Jamf Cloud experts	Customer responsible for monitoring
Security	SOC2 Type 2 certified industry standard controls ensuring service availability, security and confidentiality are manintained at highest levels	Customer responsible for securing and maintaining servers

An introduction to AWS

Similar to how Jamf is a leader in managing and securing Apple in the enterprise, AWS is the standard for public cloud infrastructure platforms. But what exactly are Amazon's services and how are their cloud-hosting services adapted?

AWS has a data center with fully managed, technically advanced services. Available in 33 geographical regions and 105 availability zones, AWS is a comprehensive cloud platform, adopted by millions of customers in all types of organizations around the globe. AWS Cloud is adaptable and used for organizations of all sizes — from small startups with no space for a physical server to large government organizations such as the military dealing with masses of highly sensitive information. AWS services can be tailored and adjusted to meet all company needs.

Benefits of AWS Cloud Hosting

Easy to use
AWS allows application providers, ISVs and vendors to quickly and securely host your applications - whether an existing application or a new SaaS-based application. Use the AWS Management Console or well-documented web services APIs to access AWS's application hosting platform.

Reliable
Take advantage of a scalable, reliable, and secure global computing infrastructure.

Flexible
Select the operating system, programming language, web application platform, database, and other services you need. The virtual environment lets you load the software and services your application requires. This eases the migration process for existing applications while preserving options for building new solutions.

Scalable and high-performance
Using AWS tools, Auto Scaling, and Elastic Load Balancing, your application can scale up or down based on demand. Backed by Amazon's massive infrastructure you have access to compute and storage resources when you need them.

Cost-effective
Pay only for the compute power, storage, and other resources you use, with no long-term contracts or upfront commitments.

Secure
AWS utilizes an end-to-end approach to secure and harden our infrastructure, including physical, operational, and software measures.

Benefits of Cloud Computing

Agility

Get easy access to a broad range of technologies to innovate faster and build nearly anything that you can imagine. Quickly spin up resources as you need them—from infrastructure services, such as compute, storage, and databases, to Internet of Things, machine learning, data lakes and analytics, and much more. Deploy technology services in a matter of minutes, and get from idea to implementation several orders of magnitude faster than before. This gives you the freedom to experiment, test new ideas to differentiate customer experiences, and transform your business.

Elasticity

You don't have to over-provision resources up front to handle peak levels of business activity in the future, provision the amount of resources that you actually need. Scale resources up or down to instantly grow and shrink capacity as your business needs change.

Cost savings

Trade fixed expenses (such as data centers and physical servers) for variable expenses, and only pay for IT as you consume it. Plus, the variable expenses are much lower than what you would pay to do it yourself because of the economies of scale.

Deploy globally in minutes

Expand to new geographic regions and deploy globally in minutes. Because AWS has infrastructure all over the world, you can deploy your application in multiple physical locations with just a few clicks. Putting applications in closer proximity to end users reduces latency and improves their experience.

Cloud security

All companies need effective data security. Through advanced infrastructure and data protection functionalities such as ongoing logging and monitoring, security threats to organizational data can be detected. Once detected, automated incident response and instant recovery features allow quick responses to remediate threats and hence prevention of their impact. Such automations, in addition to human action, further allows for a full remediation.

It is not only the security capabilities and their compliancy, AWS conducts consistent monitoring, auditing and adjusting of how data is secured. This is particularly important as Jamf Cloud is scalable, meaning security is never compromised by your organization's growing data volume and complexity.

The numerous security features include advanced compliance-enabling features, such that AWS has gained over 143 national and regional security certifications around the globe, supporting and going beyond its requirements.

The most notable certificates which AWS complies with are the **EU-US Privacy Shield,** the EU's **GDPR** (General Data Protection Regulation) and the benchmark set by the **Center for Internet Security** (CIS). **AWS's compliance programs** are specific to the legal requirements of the geographical region and additionally incorporate security best practices for optimal security. For an overview of hundreds of security features, AWS-own security benchmarks and compliancy, visit the **AWS security page**.

The Shared Responsibility Model for Jamf Cloud security
AWS, Jamf and you.

Data security is about more than just the sum of its parts, meaning it's more than just a secure cloud infrastructure used in combination with a customer's data.

It's possible for a model or service that is secure to be non-compliant because it is not set up or utilized correctly, making the service itself no longer compliant.

This principle can be explained by the **Shared Responsibility Model**. Cloud security is made up of numerous aspects one can easily get lost in. While AWS is entirely responsible for the security of the cloud itself (i.e., its infrastructure), Jamf is responsible for the security of the content in the cloud, and it's the responsibility of the customer to follow the rules of usage to ensure compliance.

AWS is responsible for security of the cloud:	**Jamf is responsible for security in the cloud:**	**The customer is responsible for content in the cloud:**
▶ Regions, availability zones, and edge locations ▶ Physical server level ▶ Storage device decommissioning according to industry standards ▶ Personnel security ▶ Network device security	▶ Database Infrastructure ▶ Caching Servers ▶ Application Servers ▶ Load Balancers ▶ Cloud Storage ▶ Cloud Delivery Network	▶ Sites, software and licensing ▶ On-premise firewalls ▶ Maintaining IP whitelists

Jamf provides the following cloud-operations security measures:

Monthly patching ensures the infrastructure is up-to-date, stable and safe from security threats

Internal security scanning identifies vulnerabilities and assures customer resources are not exposed to the internet

Security incident management monitors, identifies, responds to and contains security threats

Continuous checks whether the Jamf Cloud is available and running as it should, at all times

Our existing Jamf Cloud customers who have migrated from an on-premises solution, can testify to the outlined benefits of Jamf Cloud.

For a full explanation on how bol.com migrated to the Jamf Cloud, check out their **customer story.**

"Together with Jamf, we checked in devices, ensured the policies worked properly and took a look at the performance enrollments. Everything worked, and we celebrated the success that we migrated to Jamf Cloud within three hours! What a great service from the migration services team! Now we're managing 600 Macs in Jamf Cloud and have full remote control over our devices, no matter where they are in the world. What a win!

– Thijs Xhaflaire,
System Administrator at bol.com

Would you too like to benefit from hosting Jamf Pro with Jamf Cloud and take advantage of our Migration Services?

Your Jamf Cloud subscription includes:

- ▶ Hosted Jamf Pro server with immense scalability
- ▶ Daily backups retained for 30 days
- ▶ Service monitoring with status dashboard

- ▶ Managed updates for Jamf Pro and underlying services
- ▶ 99.9% uptime and 24/7 availability
- ▶ SCCM Plug-in

- ▶ Cloud distribution service for global package distribution
- ▶ Disaster Recovery alternate location
- ▶ BYOD supported

Your one-off Migration Services includes:

All upgrades to the Jamf Pro Server

Exporting all of your data and bringing it into the new Jamf Pro Server environment

Migration project management

Expectations meeting

If you are an existing customer using Jamf Pro, contact your delegated Jamf expert to discover how you can migrate to the Jamf Cloud. **Contact us >**

You can use your AWS committed spend toward all Jamf products, now available in AWS Marketplace.

If you are not yet a customer and are interested in Jamf and the Jamf Cloud, request a free 30-day trial to get started today.

Request Trial

Ready to get started?

To learn more about how Jamf Cloud can make an impact on your Apple device management and security visit **jamf.com/products/jamf-cloud >**