

AWS End User Computing

Cost-effective, secure, and reliable virtual desktop and application streaming services

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Our core tenets











"There is no compression algorithm for experience."

MOST EXPERIENCE

16

years running Microsoft workloads in the cloud

PACE OF INNOVATION

90

percent of what AWS builds is driven by customers

GLOBAL REACH

105

Availability Zones in 33 geographic regions

MOST FUNCTIONALITY

200+

fully featured services

MOST SECURE

143

security standards and compliance certifications

CLOUD LEADER

13

consecutive years in Gartner 2023 Magic Quadrant



Year over year, AWS has less downtime hours across services

DOWNTIME HOURS = DOWNTIME HOURS PUBLISHED * REGIONS IMPACTED * SERVICES IMPACTED

of downtime hours by cloud provider in 2023



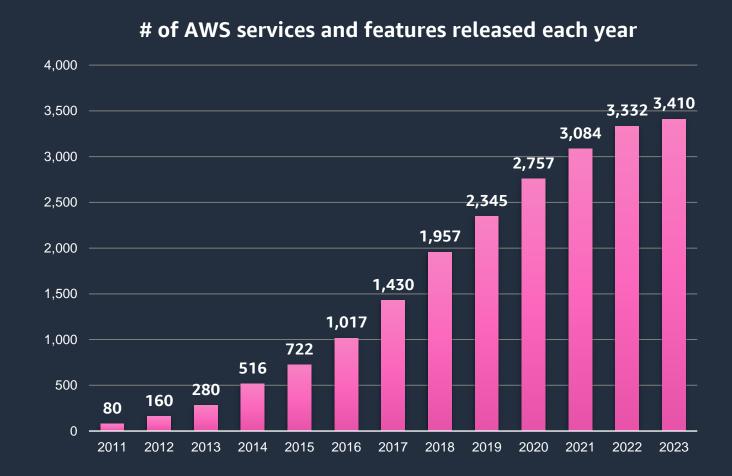


Customers drive our fast pace of innovation

LEVERAGE THE LATEST TECHNOLOGIES TO EXPERIMENT AND INNOVATE MORE QUICKLY

"At AWS, 90% of what we build is driven by what customers tell us matter to them. The other 10% comes from things that may not be directly articulated, but where a deep knowledge of customer needs and pain points allows us to invent new features and services that will surprise and delight them."

Daniel Slater Worldwide Lead, Culture of Innovation AWS





AWS end-user computing services

Virtual desktops

Application streaming



Amazon WorkSpaces Core

Infrastructure for third-party virtual desktop software



Amazon WorkSpaces

Persistent virtual desktops



Amazon
AppStream 2.0

Non-persistent virtual desktops



Amazon WorkSpaces Web

Low-cost, secure web browser



Amazon
AppStream 2.0

SaaS conversion, application streaming



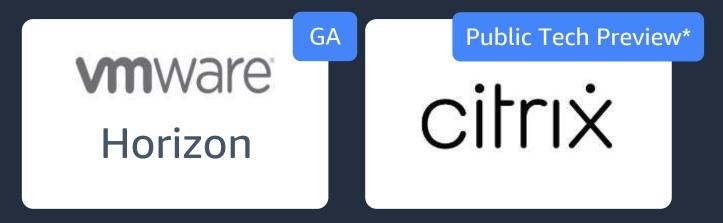
Amazon WorkSpaces Thin Client

Cost-effective, secure, simple access to virtual desktops



Run third-party VDI software of your choice

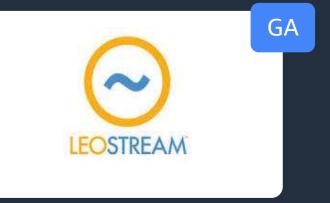
WORKSPACES CORE PARTNERS



Rapid deployment Simple provisioning

Consistent user experience No need to update client

Workspot.
Cloud PC



Easy management
Existing console, no retraining



*Citrix public tech preview allows customers to leverage new features and capabilities in a non-production or limited-production environment to test and provide feedback based on their experience. See Citrix documentation for more information.

Global customer base











































































Genomics England

Challenge

While the company's on-premises VDI solution provided researchers access to the data and tools needed to do their jobs,
ongoing management of the solution was resource intensive and often prevented the Genomics England IT team from working
on other projects. The company needed to focus limited IT staff on improving service offerings and user experience, rather than
managing infrastructure.

Solution

- Genomics looked to the AWS End User Computing team to provide a fully managed solution to address challenges with its onpremises VDI solution. Not only did WorkSpaces allow the UK-based company to comply with data-residency requirements, it
 helped optimize end-user experience for researchers leveraging Genomics applications already running at AWS. Genomic
 sequencing data, security was also an important factor. Moving to a managed service ensured that Genomics England benefited
 from AWS's shared responsibility model and offloaded ownership of underlying VDI security administration to AWS.
- "User feedback collected during beta testing showed <u>WorkSpaces was easy to use and delivered great performance</u>. In fact, users who participated in the beta program were quite vocal about not wanting to go back to the old VDI solution."

 Sarah Egan, IT Manager, Genomics England
- "After migrating to WorkSpaces, we no longer need to manually adjust infrastructure allocation when someone wants to run a
 resource-intensive workload. Having a fully managed solution allows us to focus our small IT team on developing new
 services and improving our applications."
 - Graham Binns, Head of IT Strategy and Architecture, Genomics England



Lucid Motors

Challenge

The need to move their global users to more remote but still controlled environments. Protecting intellectual property and also having minimal upfront costs.

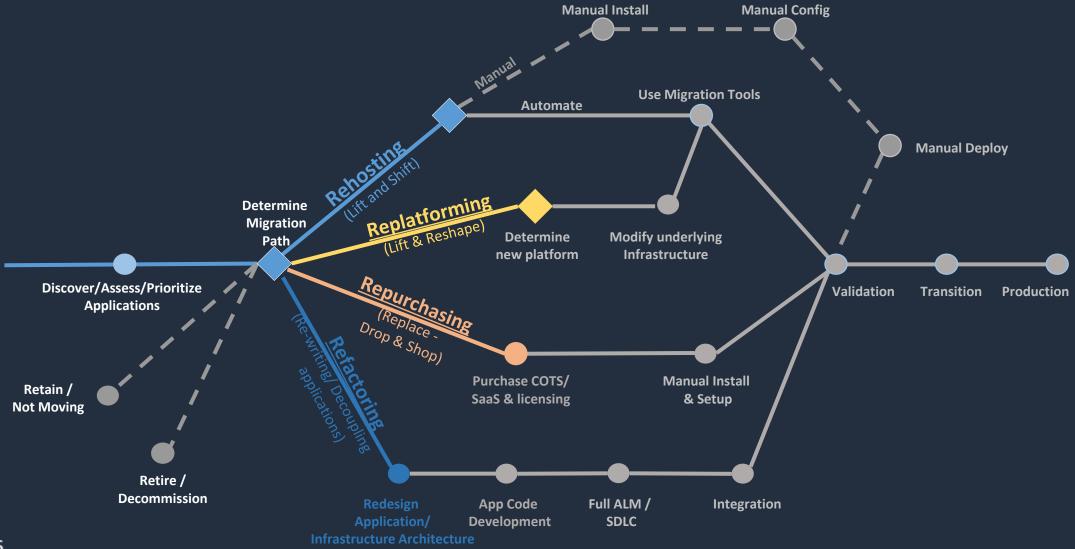
Solution

- After looking at many solutions they found that Amazon WorkSpaces Core with Horizon 8 provided the best flexibility and the
 ability to protect some of their existing investments. Licensing, the technical skillset of our staff and the existing on prem.
 hardware given that this is a hybrid deployment.
- 900 desktops within 30 days, users can request new desktops in minutes vs hours
- Blast protocol helped them reduce the size of the instance needed for their desktops
- Support for Microsoft Office 365





Journey & Migration Strategy





12

Endpoints

•Examples of Purpose-built services from Amazon includes:

<u>Amazon WorkSpaces Thin Client</u> - Reduce costs, simplify logistics, and accelerate deployment using virtual desktops

- •<u>AWS Systems Manager</u> Manage your resources on AWS and in multi cloud and hybrid environments
- •<u>AWS Device Farm</u> Improve the quality of your web and mobile applications by testing across desktop browsers and real mobile devices hosted in the AWS Cloud

Examples of Partner solutions include:

Solutions that have achieved acceptance into the <u>Digital Workplace Competency program for Endpoint Management</u>

Okta, SOTI, PrinterLogic

Explore the AWS Marketplace with search examples like **Endpoint Management** or **Endpoint Protection**



Applications

Examples of Purpose-built services from Amazon includes:

<u>Amazon WorkSpaces Family</u> - Fully managed, secure, reliable virtual desktop solutions for every workload.

- Workspaces All-inclusive fully persistent, virtual desktops for all worker types.
- WorkSpaces Core Managed virtual desktop infrastructure designed to work with third-party VDI solutions
 - VMware Horizon 8 powered by Amazon WorkSpaces Core Unified, hybrid VDI solution simplifies management, enhances security, and reduces costs
 - Workspot Cloud PCs powered by Amazon WorkSpaces Core Advanced user-base observability with the security and scalability of the AWS Cloud.
 - Leostream powered by Amazon WorkSpaces Core Improve user visibility and cost management, while leveraging the security and scalability of the AWS Cloud
- <u>WorkSpaces Web</u> Secure browser access to internal websites and SaaS apps starting at \$7 per month

Amazon AppStream 2.0 - Secure, reliable, and scalable access to applications and non-persistent desktops from any location

AWS Systems Manager - Manage your resources on AWS and in multicloud and hybrid environments

AWS Identity Center - AWS Access Portal -use application assignments to provide single sign-on access to many SAML 2.0 business applications, including Salesforce, Box, and Microsoft 365.

Examples of Partner solutions include:

Solutions that have achieved acceptance into the <u>Digital Workplace Competency program for Application Management</u>

CloudSoftwareGroup (Citrix), Horizon*, OneIdentity, eG innovations, Nutanix, Okta,

Explore the AWS Marketplace with search examples like <u>VDI (Virtual Desktop infrastructure)</u> or <u>Workforce Identity</u>



Collaboration

Examples of Purpose-built services from Amazon includes:

Amazon WorkDocs - Secure document sharing and content collaboration—connecting teams everywhere

Amazon Connect - AWS's AI-powered contact center. Accelerate CX innovation at a lower cost Transform your customer experience (CX) at scale.

Amazon Chime - Meet, chat, and place business phone calls with a single, secure application.

Examples of Partner solutions include:

Solutions that have achieved acceptance into the <u>Digital Workplace Competency program for Collaboration</u>.

Nasumi, Druva, SmartSheet, Kaltura, Whispr, Bluescape, Monday.com

Explore the AWS Marketplace for categories like <u>Business Application</u> or <u>Collaboration</u> & <u>Productivity</u>



Action

Visit us at our booth and check out these great demos

- Amazon ThinClient
- Amazon WorkSpaces Core and Horizon 8
- Improved observability
- Ubuntu desktops with Amazon WorkSpaces

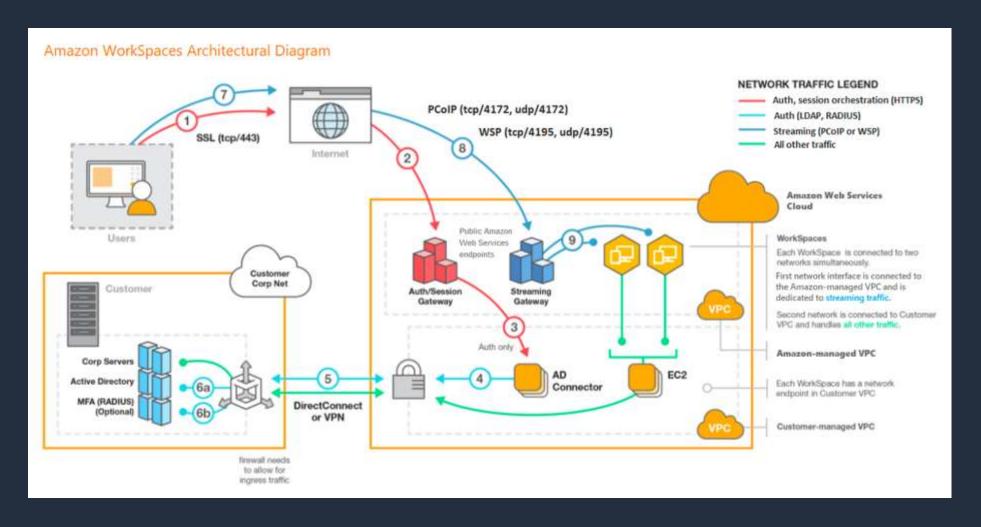
Contact your AWS rep to learn more about Migration Acceleration Programs





Thank you!

WorkSpaces architecture and network traffic flow







Freedom to bring previously purchased software to the cloud

Freedom to run on-premises software on the cloud of your choice

Freedom from retaliation for cloud choices

Equal treatment for software licensing fees in the cloud

Directory software should be interoperable



Amazon WorkSpaces Thin Client

REDUCE COSTS, SIMPLIFY LOGISTICS, AND ACCELERATE DEPLOYMENT



Reduce end-user computing cost

Low-cost device starts at \$195 USD

Ships directly from Amazon to end users Simplifies logistics

Set up in minutes

Pre-configured for simple end-user deployment

Built for AWS virtual desktop services

Works seamlessly with WorkSpaces, WorkSpace Web, and AppStream 2.0



WorkSpaces Thin Client



OCTA-CORE, ARM CPU, 2GB RAM, HDMI 2.1 OUT

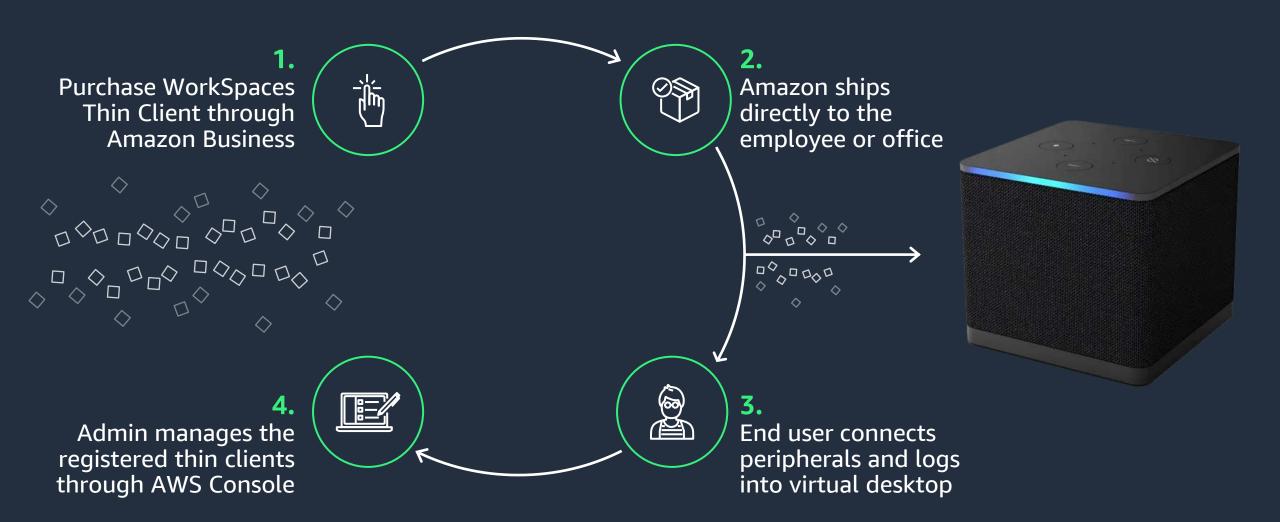
HUB: HDMI OUT, 4 USB-A PORTS

DUAL-MONITOR SUPPORT

WIRED OR WIRELESS KEYBOARD AND MOUSE

WIRED WEBCAM AND HEADSET

WorkSpaces Thin Client



Example use cases

Contact centers

- Simplified hoteling in corporate offices
- Secure remote work
- Empower customer service agents with low-cost workstations

Administration / back office

- Enable HR, payroll, accounting, and finance employees
- Protect sensitive corporate, employee, and customer data

Front desk / kiosk

- Simple front-desk infrastructure
- Hospitality customer check-in
- Corporate office badge-in



