



SUMMIT
ONLINE

Move your desktops and applications to AWS end-user computing

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Agenda

- Remote Working & Learning
- Overview of AWS End User Computing
 - Amazon WorkSpaces
 - Amazon AppStream 2.0
 - Amazon WorkDocs
- Next Steps

Remote Working & Learning, Virtual Call Centers



Access your desktop anywhere, anytime, from any device



Provide users with access to the applications they need



Secure content collaboration, simplified



Working together, simplified



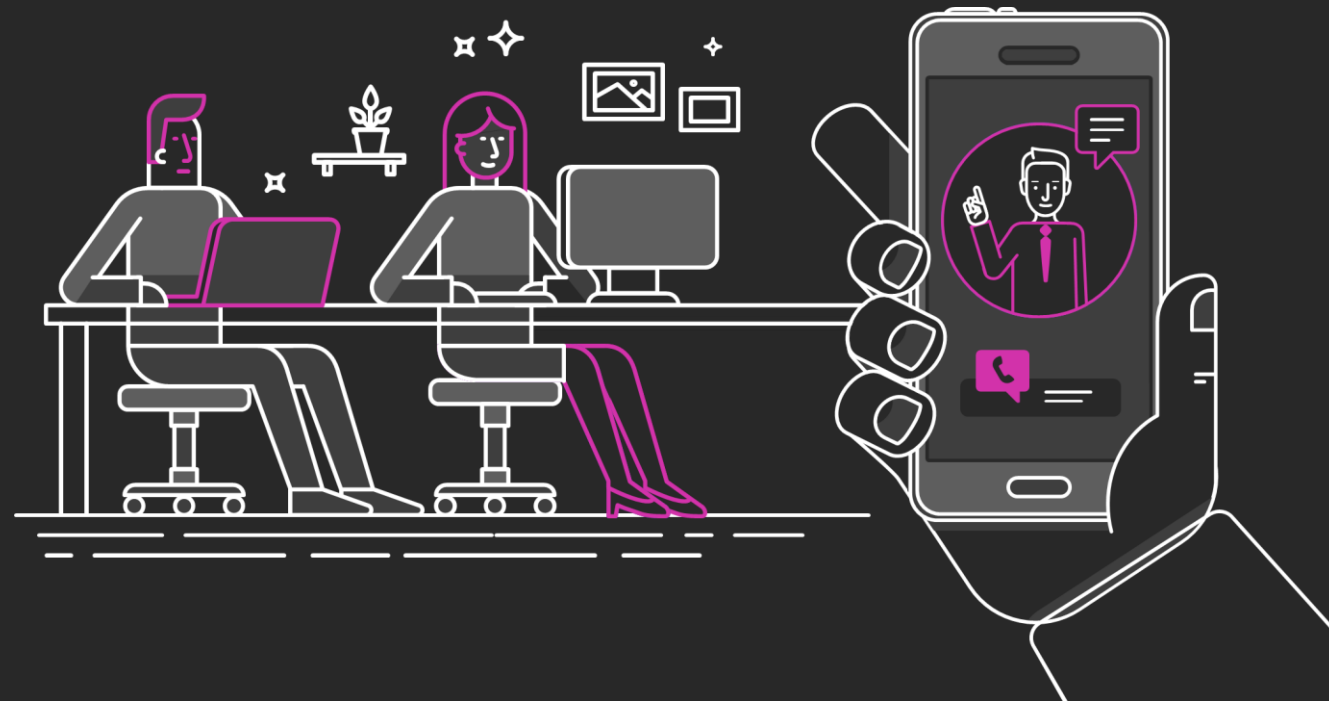
Easy to use omnichannel cloud contact center

AWS End User Computing

amazon
AppStream 2.0
Applications

amazon
WorkSpaces
Desktops

amazon
WorkDocs
Documents



Edge of Enterprise Drives New Requirements

Workforce is increasingly
distributed, mobile and agile

Compliance and security is
increasingly mission critical

1 in 5¹
of jobs
held by contractors

79%²
of organizations
expect an increase in M&A

70%³
of workers
worked remotely

24%⁴
of data breaches
from lost or stolen devices

\$3.8M⁵
Avg. cost per data breach
In 2018

51%⁶
Moving to DaaS
up from 43% in 2017

1. <https://www.npr.org/2018/01/23/579690595/the-mystery-of-contract-work-why-so-many-guys>
2. <https://www2.deloitte.com/us/en/pages/mergers-and-acquisitions/articles/m-a-trends-report.html>
3. <https://www.cnbc.com/2018/05/30/70-percent-of-people-globally-work-remotely-at-least-once-a-week-iwg-study.html>
4. <https://www.trendmicro.com/vinfo/us/security/definition/data-breach>
5. <https://securitytoday.com/articles/2018/07/17/the-average-cost-of-a-data-breach.aspx>
6. <https://reprints.forrester.com/#/assets/2/374/RES135901/reports>

AWS End User Computing

We can help you give your workers anywhere, anytime access to company data and applications on their connected device to enable them to work remotely and/or from home...

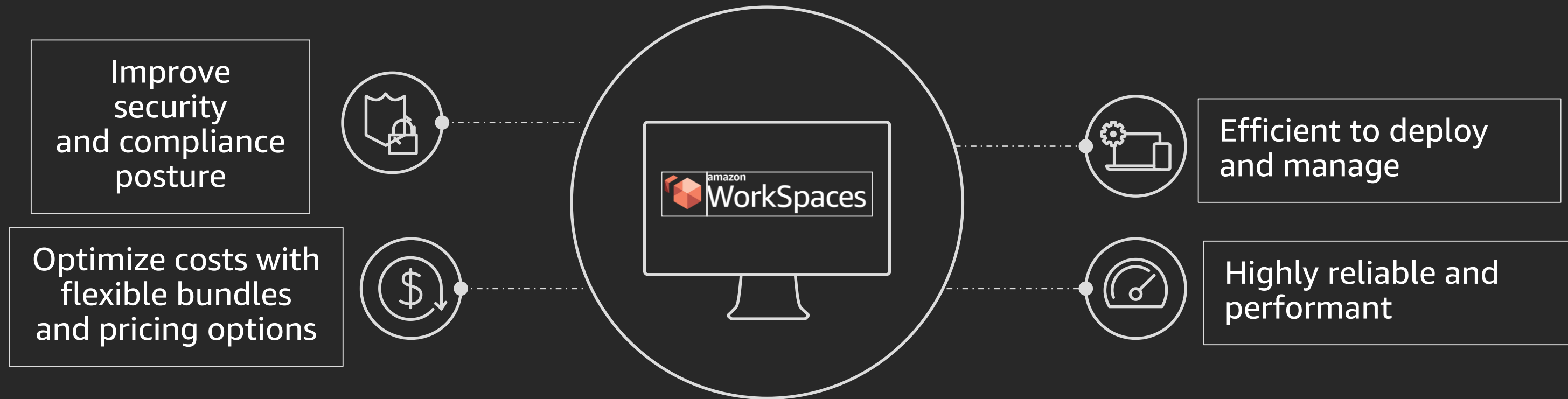
While helping your IT teams maintain data security, deliver rapid deployments, operate in a highly reliable environment, and have the ability to provision and manage these environments.

Customers



Amazon Workspaces

Amazon WorkSpaces



Fully managed, secure Linux or Windows desktops on AWS

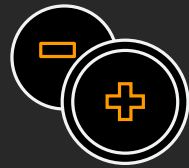
Amazon Workspaces - Use cases



Contractors



Remote
employees



Mergers and
acquisitions

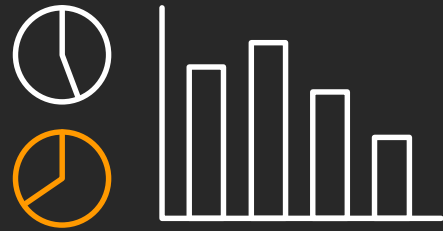


Specialized
applications



VDI replacement

Ways customers use Amazon WorkSpaces



Modern organizations

Support a global or distributed workforce

Enable BYOD & mobile workers

Replace VDI



Project-based work

Fast, secure access for consultants & contractors

Accelerate dev & test



Security and compliance

Secure applications and data

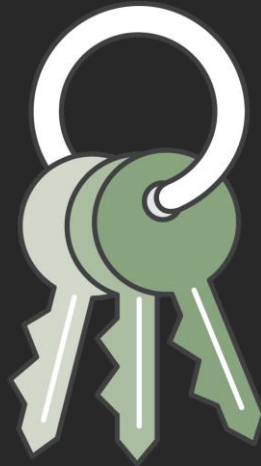
Meet regulatory requirements

(HIPAA, GDPR, PCI)

Supporting Key Security Requirements



WorkSpace data
encrypted at rest



No sensitive
data on end
users' devices



Desktop stream
encrypted in transit

Amazon WorkSpaces encrypts data and streams, and keeps information off devices

Amazon WorkSpaces flexibility



Clients

Desktop,
mobile,
web



Operating system

Windows 10,
Amazon Linux



Bundles

Value, standard,
performance,
power,
PowerPro,
graphics (x2)

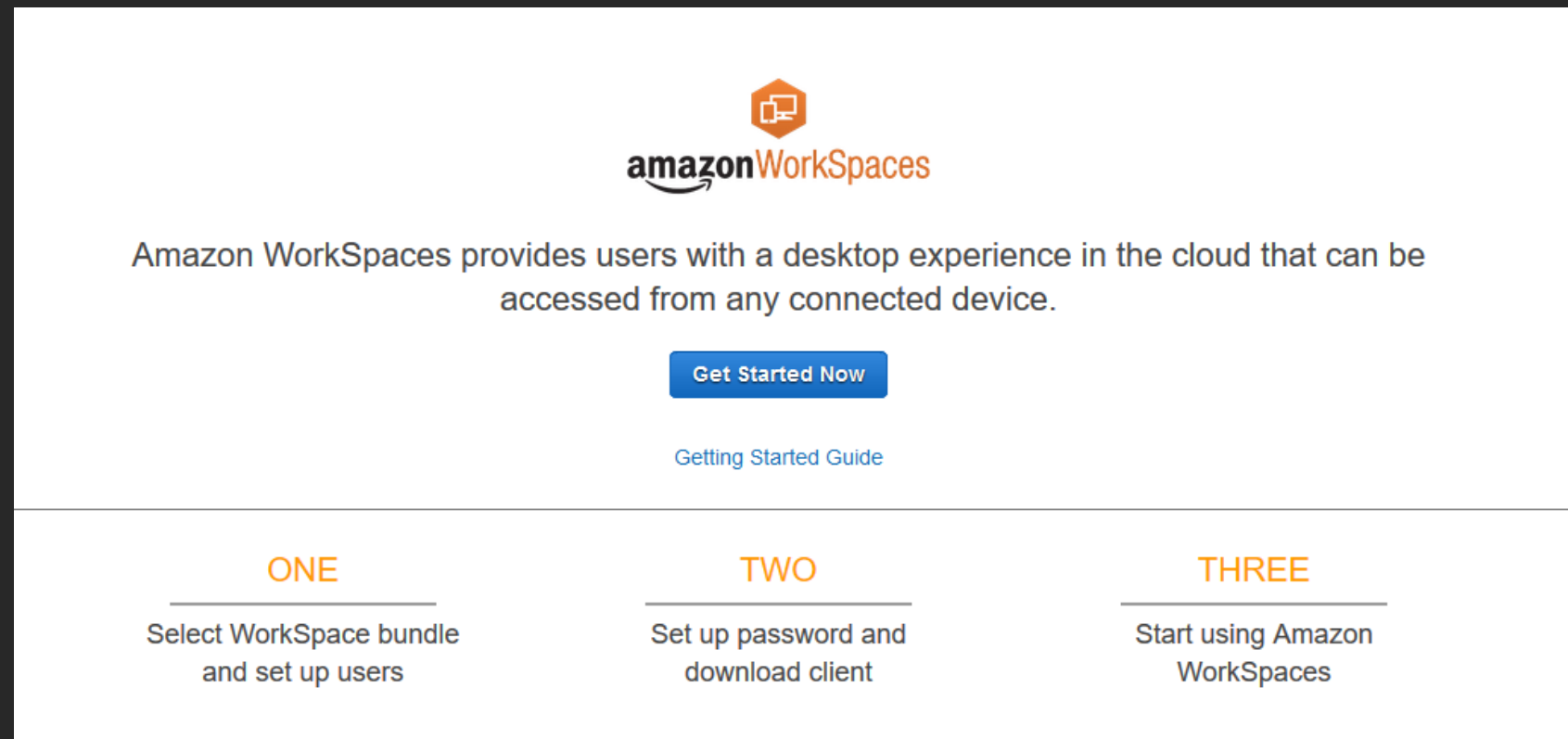


Flexible pricing

Monthly, hourly,
BYOL

Get Started with Amazon WorkSpaces

1. Open the **Amazon Workspaces** console by going to <https://console.aws.amazon.com/workspaces/>
2. Click **"Get Started Now"**




Get Started with Amazon WorkSpaces

3. Choose an option to setup your Workspaces

Get Started with Amazon WorkSpaces

Choose an option below to set up your WorkSpaces.




Quick Setup

Quickly launch WorkSpaces for an individual or small group of cloud-based users in less than 20 minutes.

[Learn More](#)

Launch



Advanced Setup

Launch WorkSpaces using advanced options-including using your on-premises directory and existing Amazon VPC.

[Learn More](#)

Launch

Cancel

Get Started with Amazon WorkSpaces

4. Select a **Bundle** for the user

Bundles

All bundles ▾ All hardware ▾ All software ▾ All Languages ▾

	Bundle ▾	Language ▾	CPU ▾	Memory
<input type="checkbox"/>	Value with Amazon Linux 2	English (US)	1 vCPU	2 GiB
<input type="checkbox"/>	Standard with Amazon Linux 2	English (US)	2 vCPU	4 GiB
<input type="checkbox"/>	Performance with Amazon Linux 2	English (US)	2 vCPU	7.5 GiB
<input type="checkbox"/>	Power with Amazon Linux 2	English (US)	4 vCPU	16 GiB
<input type="checkbox"/>	PowerPro with Amazon Linux 2	English (US)	8 vCPU	32 GiB
<input checked="" type="checkbox"/>	Standard with Windows 10 Free tier eligible	English (US)	2 vCPU	4 GiB
<input type="checkbox"/>	Standard with Windows 10 and Office 2016	English (US)	2 vCPU	4 GiB
<input type="checkbox"/>	Value with Windows 10	English (US)	1 vCPU	2 GiB

5. Provide the **user details**

Enter User Details

Username

First Name

Last Name

Email

johnd

John

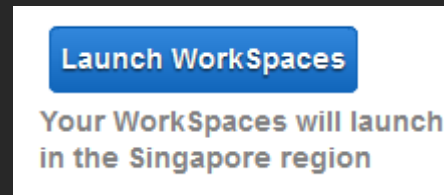
Doe

johnd@mycompany.com

+ Create Additional Users

Get Started with Amazon WorkSpaces

6. Choose **Launch Workspaces**



The initial status of the WorkSpace is **PENDING**. When the launch is complete, the status is **AVAILABLE** and an invitation is sent to the email address that you specified for the user.

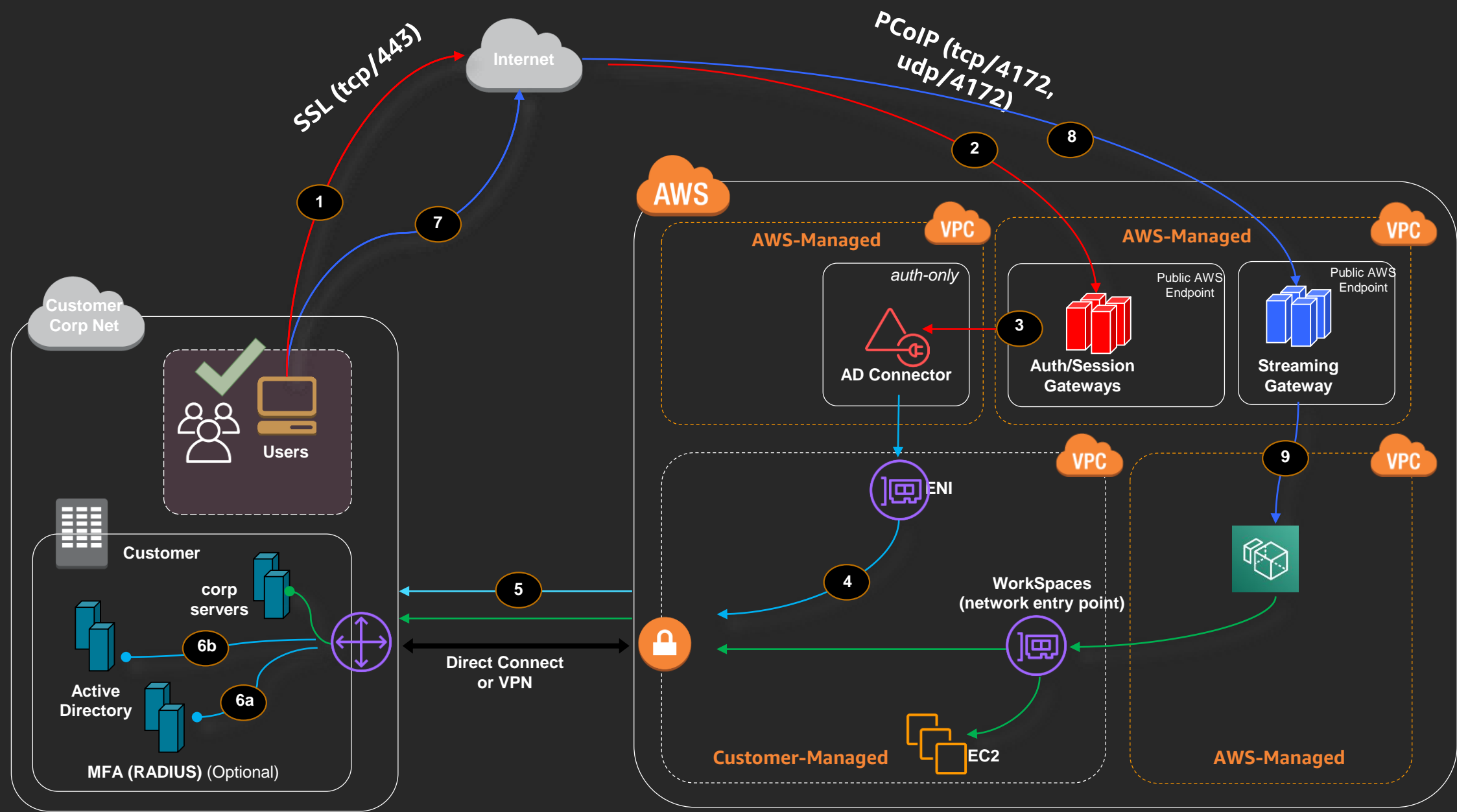
Quick Setup completes the following tasks on your behalf:

- Create an IAM role – `workspaces_DefaultRole`
- Create a VPC
- Create Simple AD for Workspaces Users
- Create Workspaces for users, and send invitation emails

Connect to the WorkSpace

1. Follow the steps in the email and setup the **credentials** for your WorkSpace.
2. Download the **client application** or launch the **Web Access**.
3. Start the client, enter the registration code and choose **Register**.
4. **Sign In** with your credentials to the WorkSpace desktop.

Connecting to Amazon WorkSpaces



Customer Example

Amazon Information Technology

“Amazon IT has rolled out Amazon WorkSpaces to even more remote employees, bringing the total number to more than 25,000 users - all supported by two Amazon engineers...

We save millions of dollars for every subsidiary we onboard, because Amazon WorkSpaces can be deployed in many different regions and the solution circumvents the need for physical logistics like shipping hardware and the buildout of network connections.”

—**Andrew Blackard, Manager, Client Engineering, Amazon**



Customer Example

Melbourne Business School

“Delivering our Masters of Business Analytics content using Amazon WorkSpaces for our students dramatically improved performance. Before, the environment was slow due to an aging infrastructure and incompatible software on devices. Over three years, we’ve had consistent uptime of 99.89%. Now, delivery of SAS within the course is as smooth as smooth can be.”

-Professor Ujwal Kayande, Director of the Centre for Business Analytics & Associate Dean - Melbourne Business School





Special offer

AWS will offer free use of Amazon WorkSpaces for up to 50 WorkSpaces with the Windows Standard bundle from April 1, 2020 to June 30, 2020 for all customers that start using WorkSpaces for the first time during this period from their AWS account.

The offer also includes 1 Windows performance bundle, 1 Windows Value bundle, and 2 Linux Standard bundle WorkSpaces

<https://aws.amazon.com/blogs/desktop-and-application-streaming/work-from-home-offer-for-amazon-workspaces/>

Amazon AppStream 2.0

Amazon AppStream 2.0



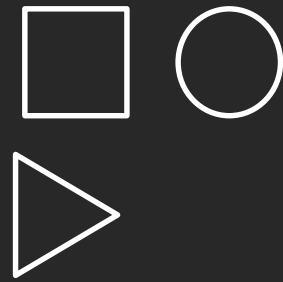
Deliver desktop applications to any computer

Amazon AppStream 2.0 – use cases



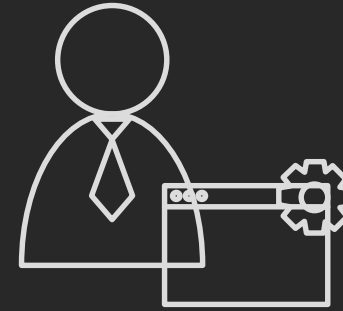
Business applications

Simplify application delivery



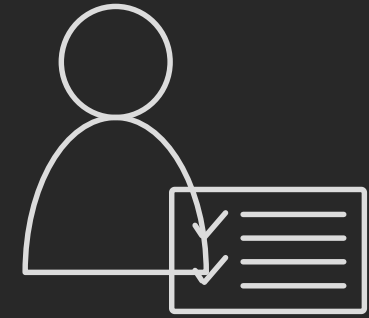
3D design and engineering

Work without workstations



Software vendors

Deliver trials, demos, training. Create SaaS with no re-write



Educational institutions

Replace computer labs. Enable distance learning.

Customer success story

Dassault Systèmes SolidWorks Corporation

"Appstream 2.0 helps our prospects start their SOLIDWORKS trials in seconds through their browser with no downloads or installation on their local computer. Because AppStream 2.0 provides GPU-optimized instances, our users have an experience indistinguishable from their local graphics workstation. This reduces the time it takes for users to complete trials of the latest version of SOLIDWORKS, in some cases from weeks to hours."

Suchit Jain, VP, Strategy & Business Development



Amazon WorkDocs

Amazon WorkDocs

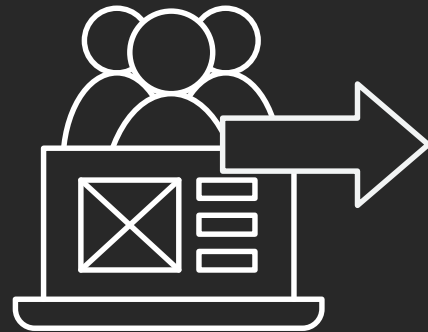


Secure, fully managed, file storage with an extensible SDK

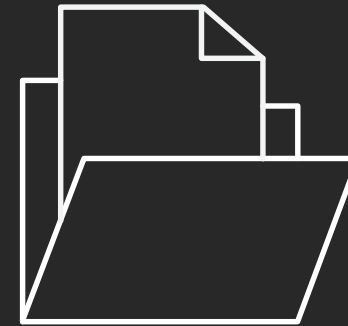
WorkDocs – Use Cases



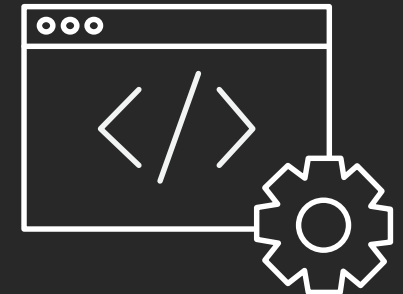
Securely store
content in the cloud



Collaborate, edit,
and share across teams



Replace network
file shares



Build custom
content experiences

Customer success story

Halliburton

"Each member of the [Open Earth] community is provided with private storage to directly access content from their [Amazon] WorkSpaces, laptops, and mobile devices. Community members have found [Amazon] WorkDocs to be a valuable solution and use it regularly to share information and collaborate across domains."

Deepak Gandhi, Manager of PaaS iEnergy and OEC

HALLIBURTON

Next Steps

1. Schedule an AWS EUC deep dive on your use case
2. Connect with an AWS EUC Competency Partner
3. Schedule an AWS EUC immersion day with your team

Resources

- **Amazon WorkSpaces**

- **Work from home offer for Amazon WorkSpaces**
<https://aws.amazon.com/blogs/desktop-and-application-streaming/work-from-home-offer-for-amazon-workspaces/>
- **Whitepaper - Best practices for deploying Amazon WorkSpaces**
https://d1.awsstatic.com/whitepapers/workspaces/Best_Practices_for_Deploying_Amazon_WorkSpaces.pdf

- **Amazon AppStream 2.0**

- **Integrating Amazon AppStream 2.0 with your Learning Management System**
<https://aws.amazon.com/blogs/publicsector/integrating-amazon-appstream-2-0-with-your-learning-management-system/>
- **How to use Amazon AppStream 2.0 to reduce your bastion host attack surface**
<https://aws.amazon.com/blogs/security/how-to-use-amazon-appstream-2-0-to-reduce-your-bastion-host-attack-surface/>
- **Scaling your desktop application streams with Amazon AppStream 2.0**
<https://aws.amazon.com/blogs/compute/scaling-your-desktop-application-streams-with-amazon-appstream-2-0/>

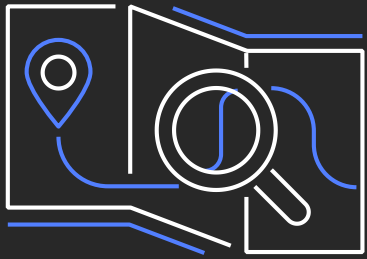
- **Amazon WorkDocs**

- **Business Continuity and Disaster Recovery with Amazon WorkSpaces**
<https://aws.amazon.com/blogs/desktop-and-application-streaming/business-continuity-and-disaster-recovery-with-amazon-workspaces/>
- **Using Amazon WorkDocs with Amazon AppStream 2.0**
<https://aws.amazon.com/blogs/desktop-and-application-streaming/using-amazon-workdocs-with-amazon-appstream-2-0/>

Wrap Up

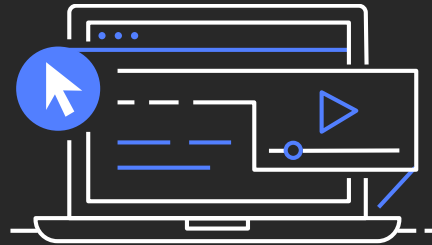
- AWS End User Computing
- ✓ **Amazon WorkSpaces** – Fully managed, secure Desktop-as-a-Service (DaaS) solution
- ✓ **Amazon AppStream 2.0** – Fully managed, application streaming service
- ✓ **Amazon WorkDocs** – Fully managed, secure content creation, storage, and collaboration service

AWS Training and Certification



Training for the Whole Team

Explore tailored learning paths for customers and partners



Flexibility to Learn Your Way

Build cloud skills with 550+ free digital training courses, or dive deep with classroom training



Validate Skills with AWS Certification

Demonstrate expertise with an industry-recognized credential



Education Programs

Find entry-level cloud talent with AWS Academy and AWS re/Start

aws.amazon.com/training

Thank you!

Eshaan Anand