



End User Computing (EUC)

Enable remote work using cloud-native virtual desktops for Government Organizations

MEET YOUR PRESENTERS

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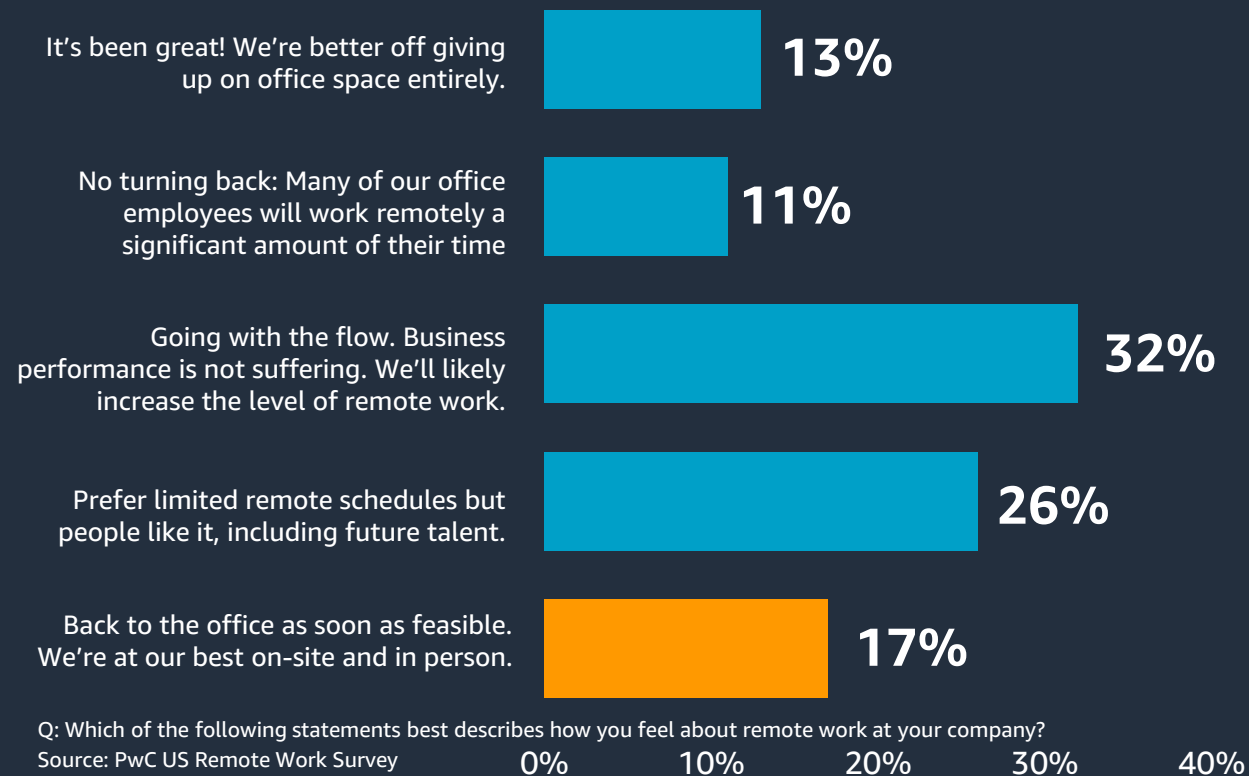
Objective for today

- Learn what AWS End User Computing is
- Understand Amazon WorkSpaces
- See a demonstration of Amazon Workspaces
- Understand high level pricing
- Understand Partner Network
- Next steps

More distributed and flexible workforce

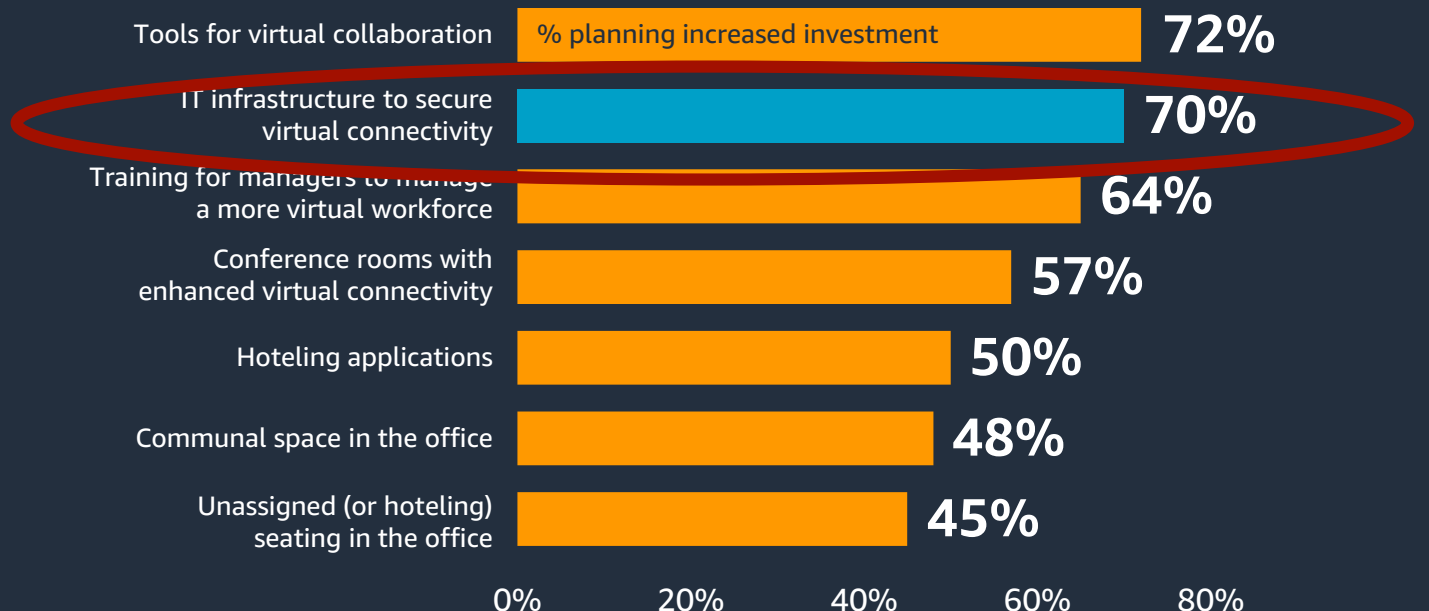
Companies are moving to hybrid

Most US companies are heading toward a hybrid office workweek



And investing to make hybrid secure & productive

US executives planning new investment to support hybrid working



Amazon WorkSpaces

Cloud native persistent desktops

Amazon AppStream 2.0

Cloud native non-persistent apps and desktops

Mission

Deliver the ability to securely get work done
from anywhere, from any device

Amazon WorkSpaces

Cloud native persistent desktops

Amazon AppStream 2.0

Cloud native non-persistent apps and desktops



Fully managed service

On-prem VDI

Image management

Directory services & policies

VDI control plane install & admin

Host admin

Storage admin

Load balancers install & admin

Hypervisor install & admin

Physical security

Power, HVAC

Rack & stack

Customer managed

Other cloud VDI

Image management

Directory services & policies

VDI control plane install & admin

Host admin

Storage admin

Load balancers install & admin

Hypervisor install & admin

Physical security

Power, HVAC

Rack & stack

Service managed



Image management

Directory services & policies

VDI control plane install & admin

Host admin

Storage admin

Load balancers install & admin

Hypervisor install & admin

Physical security

Power, HVAC

Rack & stack

Smart cards for authentication – WorkSpaces

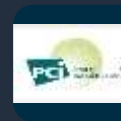
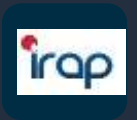
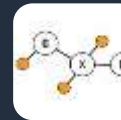
Windows and Linux WorkSpaces on WSP bundles allow the use of [Common Access Card \(CAC\)](#) and [Personal Identity Verification \(PIV\)](#) smart cards for authentication.

Pre-session and *in-session* authentication is supported. *Pre-session* authentication refers to smart card authentication that's performed while users are logging in to their WorkSpaces. *In-session* authentication refers to authentication that's performed after logging in.

Increase security: meet compliance mandates

Key certifications

SOC
PCII
ISO
FedRAMP
DoD SRG
HIPAA BAA
IRAP
MTCS
C5
ENS High
OSPAR
HITRUST CSF



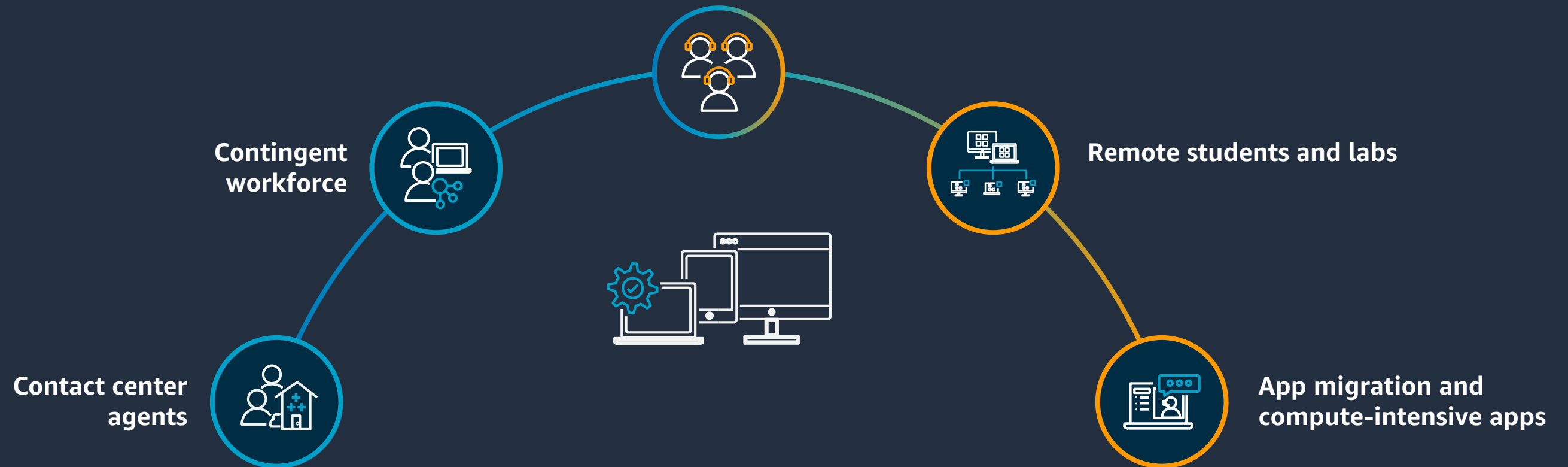
Amazon WorkSpaces

Cloud native persistent desktops

Amazon AppStream 2.0

Cloud native non-persistent apps and desktops

Remote workforce and work-from-home



Seven years of secure access

MAXIMUS

AUTODESK

HANKOOK
Corporation

GRUBHUB

LUNAR[®]

EMPLOYERS[®]
America's small business insurance specialist.*

Fertelgas

VEOLIA

Fairstone[™]

firstmac

gbs
International, Inc.



geneia[®]

amazon

itegria[®]

JFR J. FRONT RETAILING

KYOWA KIRIN

enova

MRS
AWAY FROM SOLUTIONS THAT RESULT

SAMSUNG
SAMSUNG
ENGINEERING

SIEMENS

SOLIDWORKS

The Software Experts
Crayon

UNIVERSITY
of VIRGINIA | McINTIRE SCHOOL
of COMMERCE

esri Australia

ENDEMOL
SHINE
NEDERLAND

WORLDWIDE
EXPRESS[®]

COMUNE DI CAGLIARI

T
TIDEWATER

MathWorks[®]

ZINUS

Customer success for secure access



From

Costly and restrictive remote access solutions that increase time to science.

To

Centralized desktop and application management and secure data access available for any user in the world.



We moved to WorkSpaces because we were looking for a secure way for users to access our AWS Data Lake Environment while providing them with a high-quality user experience. We use Amazon WorkSpaces as a gateway to utilize BI applications querying and reporting against our data lake and other AWS environments. With WorkSpaces our users can securely access various data sources and we can control who we give access to and what tools and level of access each user gets.



Customer success story

MAXIMUS

By utilizing WorkSpaces and support from SynchroNet we are going to see significant infrastructure cost savings (storage and servers) in addition to the support and maintenance costs for the underlying VDI infrastructure. Additionally, we are implementing a BYOD policy at MAXIMUS; where WorkSpaces users no longer require a company-owned PC. Users can utilize their own PC, laptop, or tablet to access their Workspace anytime, anywhere. This will save MAXIMUS close to \$4,000 per user and will improve our security and efficiency.”

Jason Winters, Principal Architect, MAXIMUS, IT.

The MAXIMUS logo is displayed in white, serif, all-caps font on a dark blue rectangular background.

Amazon Desktops as a Service

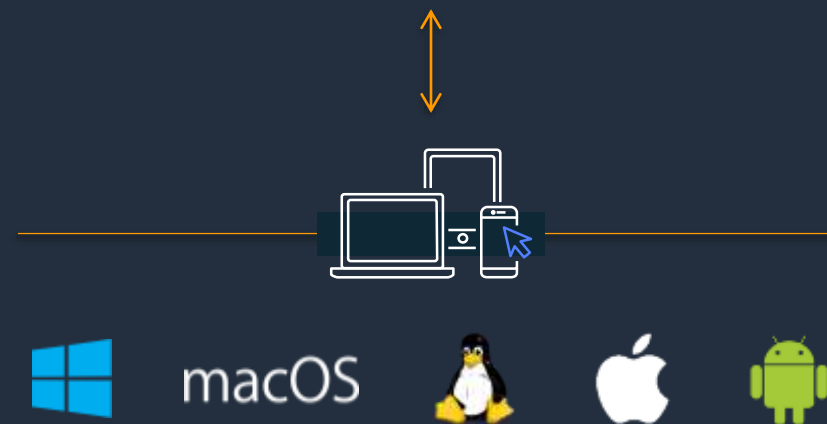


Fully-managed cloud services

Delivery at scale

High reliability

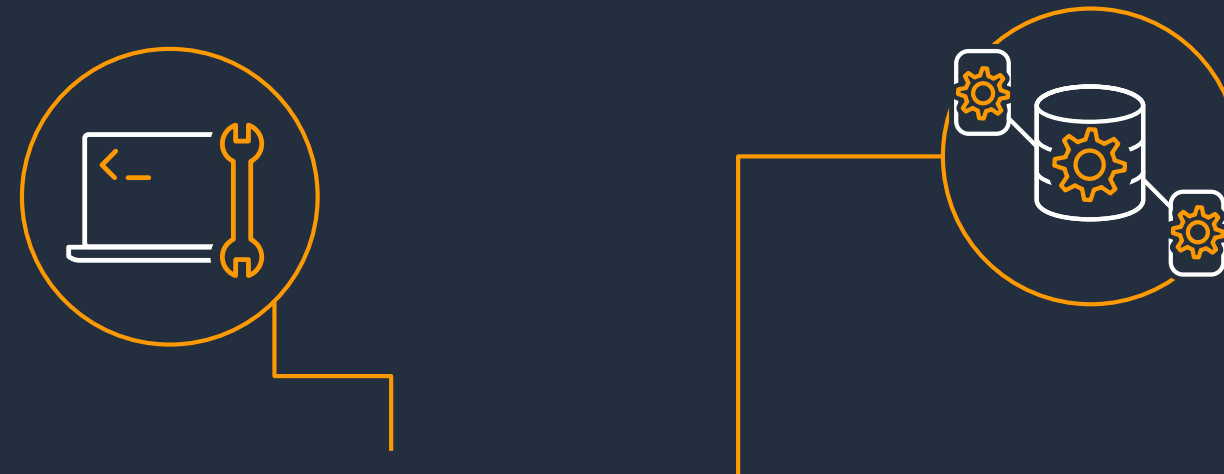
High security & control



Amazon Desktop as a Service

End user experience

- Access persistent desktop
- Provide dedicated instance
- Access from any device, BYOD



amazon
WorkSpaces

Architecture

- Persistent by design
- Integrates existing IT, app deployment, Active Directory
- No noisy neighbors

Admin curated

- Centrally manage desktops
- Admin defined end user experience
- Enable self-service for end-users
- Adopt on-prem policies



Approach

- Fully managed service
- Deploy at scale globally
- Pay as you go pricing



Benefits for key stakeholders



**AGENCY
LEADERS**



IT



SECURITY



END USERS

Benefits for business & IT Leaders



AGENCY LEADERS

Optimize business operations

Deliver workforce continuity



IT

Simplify deployment and management

Improve reliability and performance

Control IT costs



SECURITY

Meet compliance mandates

Protect company data



END USERS

Provide rich remote experience

Enable device choice

Benefits for IT



BUSINESS LEADERS

Optimize business operations

Reduce operational complexity



IT

Simplify deployment and management

Improve reliability and performance

Control IT costs



SECURITY

Meet compliance mandates

Protect company data



END USERS

Provide rich remote experiences

Improve user adoption

Improve reliability & performance

Regions

Northern Virginia

Oregon

Go Cloud

Montreal

London

Ireland

Frankfurt

Singapore

Tokyo

Sydney

Seoul

Sao Paulo

China (Ningxia)

Service uptime monthly SLA 99.9%

Multiple availability zones per region

Auto scale load balancing

Global footprint for disaster recovery

Benefits for security



BUSINESS LEADERS

Optimize business operations

Reduce downtime and costs



IT

Simplify deployment and management

Improve reliability and performance

Control IT costs



SECURITY

Meet compliance mandates

Protect company data



END USERS

Provide rich remote experiences

Enable secure device access

Benefits for end users



BUSINESS LEADERS

Optimize business operations

Reduce workforce costs



IT

Simplify deployment and management

Improve reliability and performance

Control IT costs



SECURITY

Meet compliance mandates

Protect company data



END USERS

Provide rich remote experience

Enable device choice

Benefits for end users

Provide rich remote experience & enable device choice



Multi-display

HD/4K resolution,
Up to 4 monitors



Multi-touch optimizations

Mobile device gestures
on Windows apps



Flexible Printing

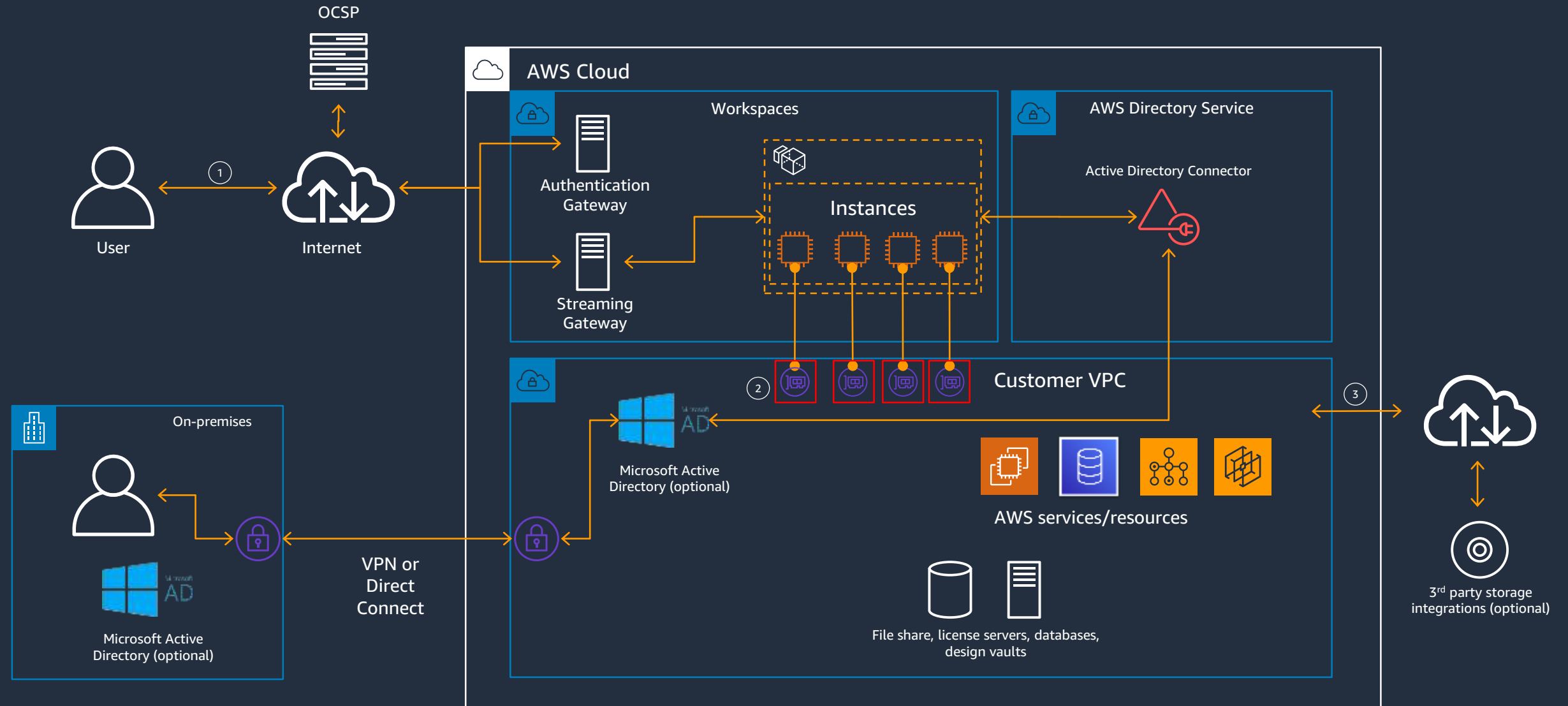
Network printing & local
printer redirection



Device Choice

Windows, Mac & Linux PC,
iOS & Android tablets,
thin & zero clients

Network flow



1. Connectivity to WSP Workspaces uses TCP/UDP 4172 over the internet
2. Security groups are used to control network access to the customer VPC
3. Workspaces instance access to the internet is through the customer VPC

WorkSpaces Demonstration

Flexible pricing options to meet customer needs



- 22 Pre-configured Windows and 20 AWS Linux server bundles*
- BYOL (Windows & Office) on dedicated hardware**
- Always-on or auto-stop
- Billing monthly and hourly

* Microsoft Office Pro Plus add-on available with Windows bundles for additional fee.

** Bring Your Own License (BYOL) minimum 200 WorkSpaces required, Windows VDA license required.

*** RDS SAL can be BYOL or purchased monthly by AWS.

AWS end-user computing competency partners



[Learn more about AWS End User Computing Competency Partners](#)

Additional Information

- 1 Overview: <https://aws.amazon.com/workspaces/?workspaces-blogs.sort-by=item.additionalFields.createdDate&workspaces-blogs.sort-order=desc>
- 2 Getting Started Guide: <https://aws.amazon.com/workspaces/getting-started/?nc=sn&loc=7>
- 3 Pricing: <https://aws.amazon.com/workspaces/pricing/?nc=sn&loc=3>
- 4 Workspaces resources: <https://aws.amazon.com/workspaces/resources/?nc=sn&loc=6&workspaces-blogs.sort-by=item.additionalFields.createdDate&workspaces-blogs.sort-order=desc&workspaces-whats-new.sort-by=item.additionalFields.postDateTime&workspaces-whats-new.sort-order=desc>

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

Q&A

Thank You!