Moving Your Desktop to the Cloud with Amazon WorkSpaces

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End-User Computing in AWS

WorkSpaces

Virtual desktops



Secure access from anywhere Monthly pricing

March 2014

WorkSpaces Application Manager

Virtual applications



Centralized application deployment Monthly subscription options

April 2015

WorkDocs

Secure enterprise document collaboration



Central sync, document feedback Secure access from anywhere

September 2014

WorkMail

Secure email and calendaring



Strong security controls

Existing desktop, mobile support

January 2015



Directory Service

Managed directories

Simple AD, AD Connector, Managed AD October 2014





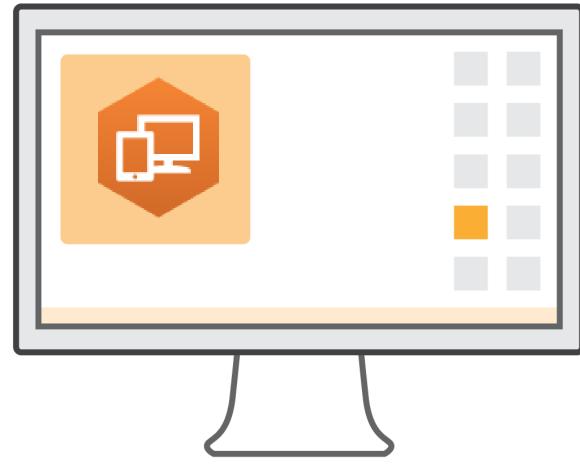
What is WorkSpaces?



Managed Cloud Desktops













Desktop as a Service



Microsoft Windows desktops on AWS

realizing the "virtual desktop dream"

The cloud replacement for traditional VDI

- no-hassle infrastructure, capacity, perf
- anywhere-access, industry-standard security

Decentralization meets consumerization

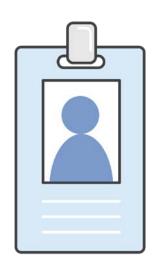
- "Corporate IT embraces Consumer IT"
- device *and* location independence



Why WorkSpaces?

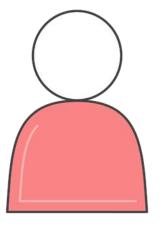


Why Desktops as a Service?



Admins want to

- Secure resources
- Lower cost structure
- Deliver high quality user experience
- Simplify administration
- Scale on-demand



Users want to

- Get instant access to apps and data
- Go between devices
- Get work done from anywhere



Popular Use Cases



BYOD



Mergers and acquisitions



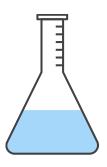
Mobile workers



Temporary workers



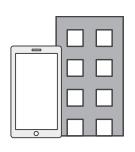
Securing data



Dev/Test



Compliance requirements



Call centers



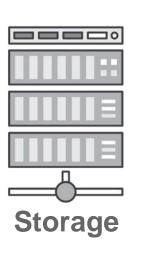
Training and labs

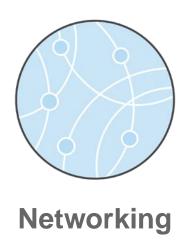


Demos

Simplify Desktop Deployments









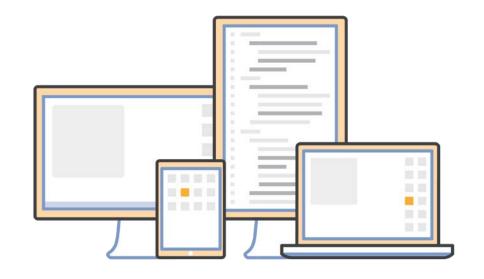




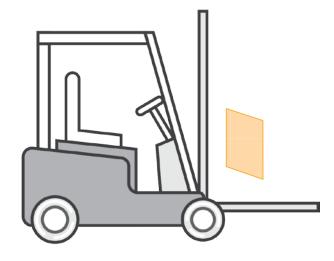
Amazon WorkSpaces simplifies physical and virtual desktop deployments



Feels Familiar



Launch the number of WorkSpaces needed



Heavy lifting taken care of by AWS

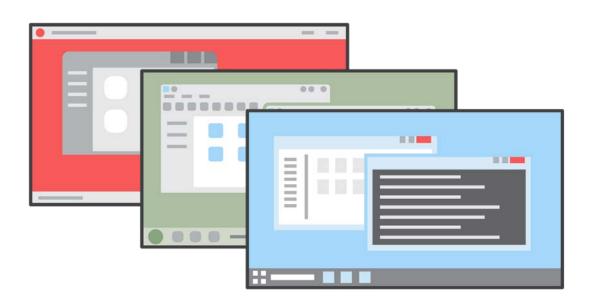


On-demand, pay-as-you-go



Standard Windows Management

- Treat like any other Microsoft Windows desktop environment
- Auth and Policy: Active Directory, GPOs
- Patching: WSUS, SCCM, 3rd-party
- Distribution: SCCM, App Layering, App Virt
- Profile Management: 3rd-party
- Automation: Powershell, .NET, and more



Use the technologies you know.



Simple to Provision

- custom-image the way you want
 - install-all or inject
- map to desired hardware configuration
 - 1 vCPU, 2GB RAM
 - 2 vCPU, 4GB RAM
 - 2 vCPU, 8GB RAM
 - NEW! 8vCPU, 16GB RAM, nVIDIA K520 GPU

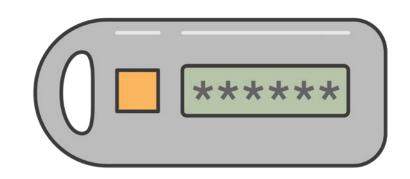


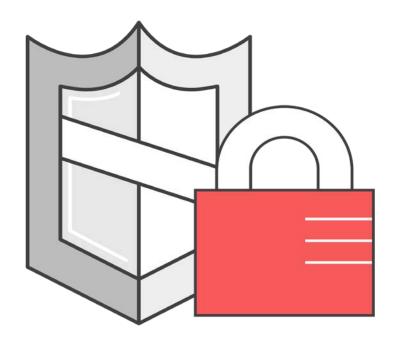
Zero to desktop in ~30 minutes.



Keep Data Highly Secure

- Enforce MFA with RADIUS-based solutions
- Gemalto, Entrust, RSA, Duo Security ... just to name a few

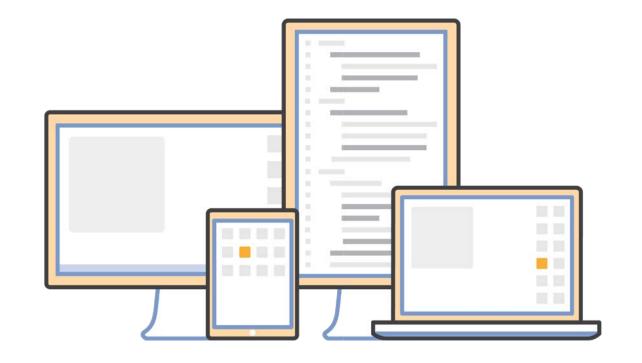




- no data stored locally on end-user device
- utilizes Teradici PCoIP for streaming protocol
- supports storage volume encryption with customer-owned keys



Supports Multiple Devices

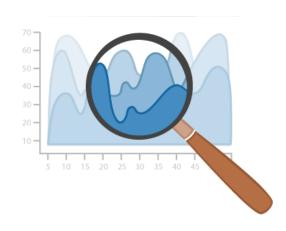


Reuse your existing devices, or acquire to fit your needs.

- Desktop, Laptop: PC, Mac
- Tablets: iOS, Android, Kindle,Surface
- Zero Clients
- Thin Clients
- Chrome OS



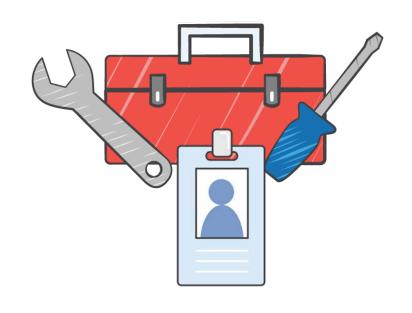
Monitoring Support



- Consume custom metrics and events
- Take action on key conditions as they occur
- Become more proactive, not reactive

Tie in with other AWS services to ...

- open trouble tickets if something happens
- archive data for reporting and analysis
- process large file sets in the cloud





General Availability

7 Regions

- Americas
 - Oregon
 - Northern Virginia
- EMEA
 - Ireland
 - Frankfurt
- APAC
 - Tokyo
 - Singapore
 - Sydney



http://aws.amazon.com/about-aws/global-infrastructure/
(as of November 2016)





Why are Multiple Regions Important?



Keep your desktops close to your users ...

or ...

Keep your desktops close to your apps.

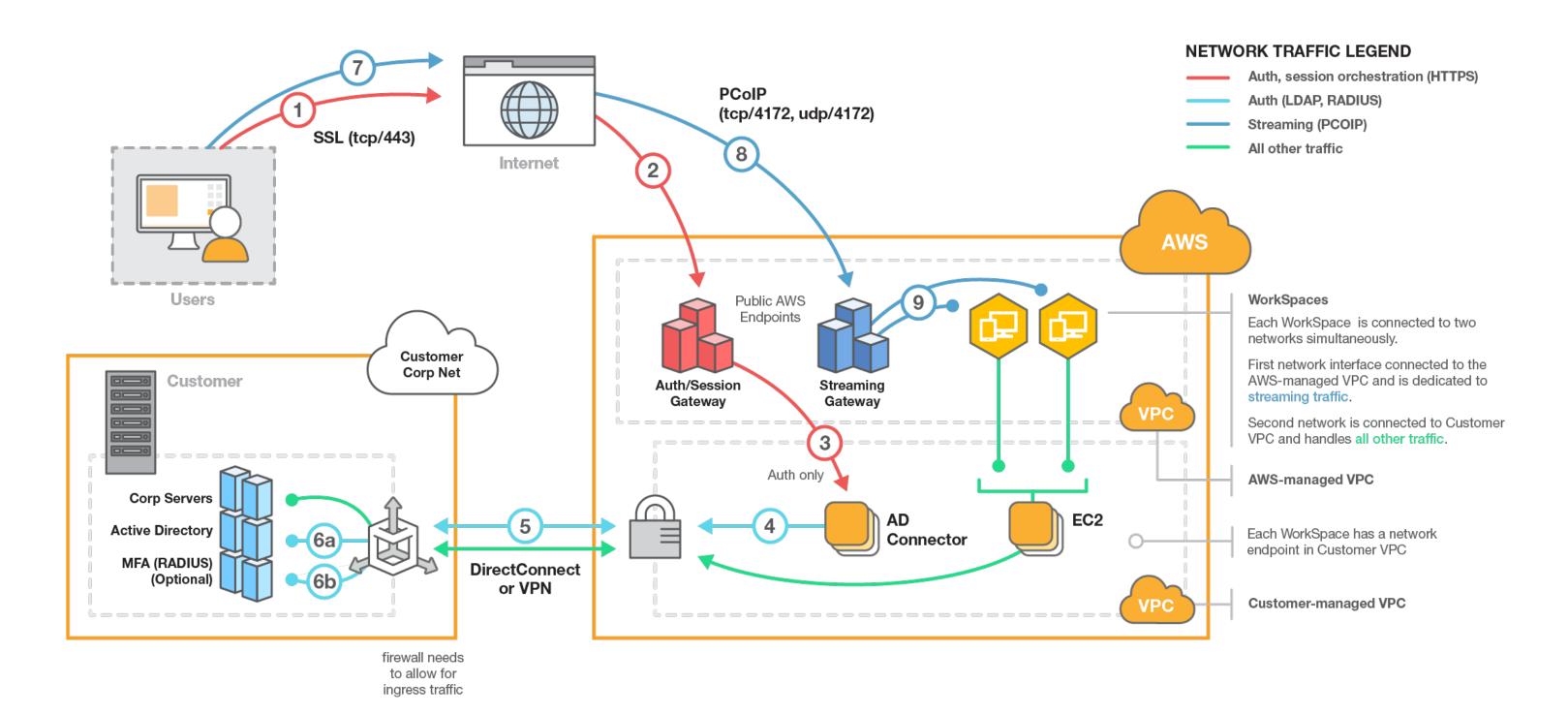


You decide.





Putting It All Together

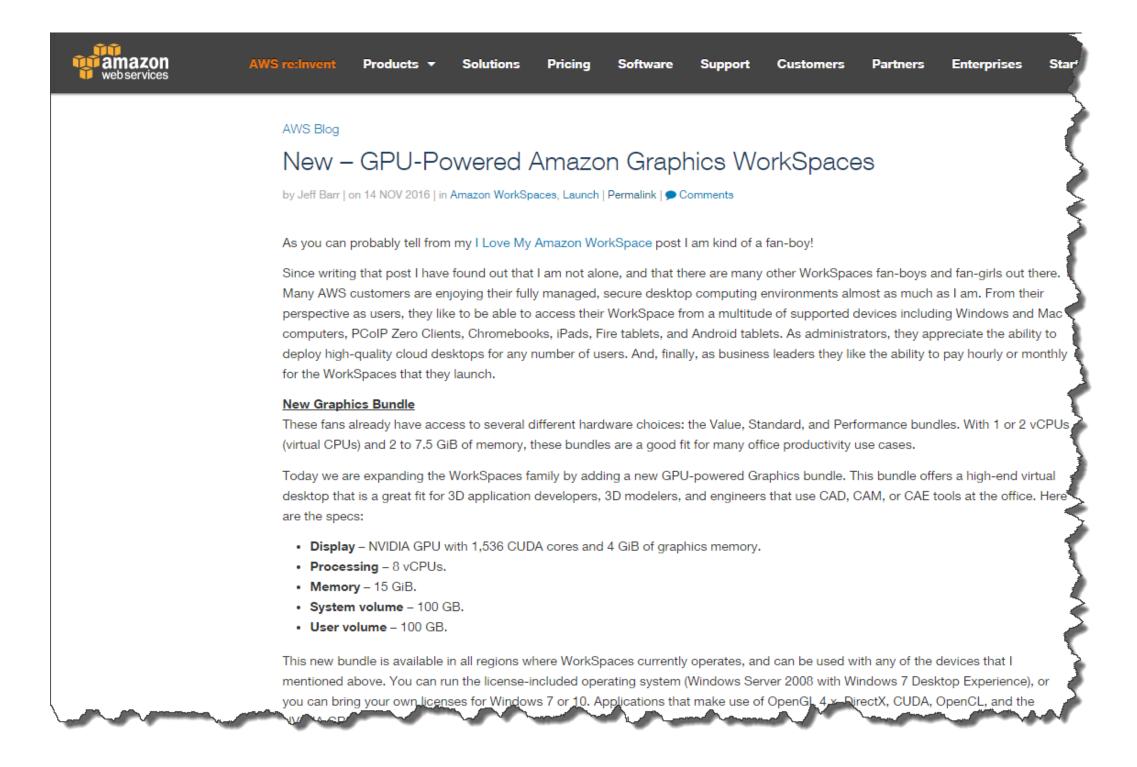




Graphics WorkSpaces



Just Announced!



Graphics WorkSpaces and AU2016

Quick Stats

- ~500 Graphics WorkSpaces for user desktop
- centralized file servers for lab datasets (~150GB data)
 - 16 NVIDIA K80 GPUs, 64 vCPUs, 732 GiB, 20Gbps network I/O
- zero clients for true stateless conditions
 - HP t310, Dell Wyse 5030

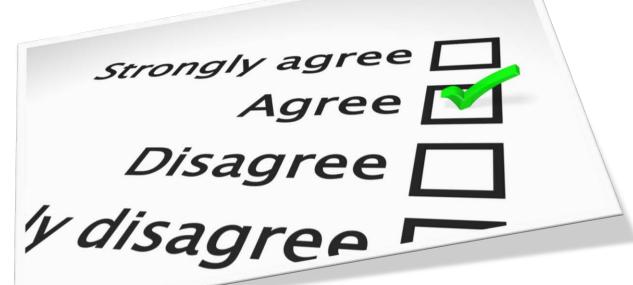


Demo



How did I do?

- Your class feedback is critical. Fill out a class survey now.
- Use the AU mobile app or fill out a class survey online.
- Give feedback after each session.
- AU speakers will get feedback in real-time.
- Your feedback results in better classes and a better AU experience.







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