Amazon WorkSpaces: Advanced Topics and Application Delivery

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Start with a customer: Example Co.

Manufacturing Company that uses AWS for Business Applications
Example Co. Hiring 100 Contractors in two Weeks
Example Co. Desktops for 100 Users

- Login with Example Co. AD Credentials
- Access on-premises network resources
- Access Line-of-Biz Desktop Apps
- Access popular desktop Apps
- Require remote access
- Bring your own Device
Example Co. Moving New Projects to AWS
Example Co. To Provide Contractors Amazon WorkSpaces
Let’s Get Example Co. Set Up On Amazon WorkSpaces
Deploying WorkSpaces - Essentials

- Build Network for WorkSpaces
- Launch WorkSpaces
- Deploy Applications to WorkSpaces
Build Network for WorkSpaces
Example Co. Network

Active Directory

VPN Connection

VPC 172.16.0.0/16

WorkSpace

AD Connector

ENI

Example Co Corp Network 10.31.0.0/16
Example Co. Network

eth0 serves WorkSpace pixels back to the client device
- PConIP
tcp and udp 4172

eth0

eth1 serves traffic to:
- Internet
- resources in VPC
- resources on-prem

eth1

eth1 is in Example Co. VPC

Internet Gateway

VPC

eni 172.16.0.10

VPC 172.16.0.0/16

Amazon WorkSpaces are dual-homed
Windows Server 2008 R2 instances
with Windows 7 experience
There is a “WorkSpaces Gateway” between your device and your WorkSpace

Let’s put it all in context...
WorkSpaces Demo
Amazon WorkSpaces Application Manager
Managed App Delivery to WorkSpaces
Managing Applications for your Users

Amazon WorkSpaces
Application Manager
(Amazon WAM)

Deploy and Manage Applications

Package your own applications

Upload applications where you own the license

Subscribe from the AWS Marketplace for Desktop Apps
Amazon WAM Benefits

Easily manage applications at scale
Amazon WAM Benefits

Virtualized App Containers
Amazon WAM Benefits

Empower your users
Amazon WAM Benefits

Curate a wide range of applications
Amazon WAM Benefits

Gain visibility and control over app usage
Amazon WAM Benefits

Low cost
Amazon WorkSpaces Application Manager (Amazon WAM)

Amazon WorkSpaces Application Manager (Amazon WAM) for Desktop Apps

- Applications where you already own the license
- Line of business applications

Amazon WAM Catalog

Deploy Apps

WorkSpaces
Build Your Application Catalog - AWS Marketplace for Desktop Apps

- Simplified software procurement
- Monthly consumption model
- Selection of more than 100 apps across 11 categories
- Search, select and buy in minutes
- One AWS invoice
Build Your Application Catalog - AWS Marketplace for Desktop Apps

**Application & Web Development**
- VSCode
- Python

**Productivity & Collaboration**
- Outlook
- Slack

**Security, Storage & Archiving**
- Zscaler
- McAfee

**Utilities**
- PDF
- 7-Zip

**Media & Encoding**
- Music
- Video
Build Your Application Catalog – Upload Applications

Your Application

Package using Amazon WAM Admin Studio

Validate using Amazon WAM Player

Upload to Application Catalog using WorkSpaces Console
Assign Applications from Catalog to Users

Your application catalog on Amazon WAM Console

Select applications

Search for Users in your directory and assign applications

Use Amazon WAM desktop app on WorkSpace to access applications
Packaging – Supports Wide Range of Applications

- Microsoft Windows 7, Microsoft Windows 8
- 32-bit & 64-bit apps
- User-mode and kernel-mode apps
- Apps with drivers, services, background processes, frameworks
Packaging – Customize with Configurable App Events

Configure business logic with app container
Packaging - Configurable Virtualization

Four Available Application Virtualization Layers

1. Installed
   Permanent

2.

3. Virtual
   Isolated

4.
Amazon WAM Demo
Example Co. On Amazon WorkSpaces - Recap

- Example Co.
- Build Network for WorkSpaces
- Launch WorkSpaces
- Deploy Applications to WorkSpaces (Amazon WAM)
- Buy software from AWS Marketplace for Desktop Apps
Features…

- API Support (create, describe, and remove WorkSpaces)
- Amazon WorkSpaces Application Manager
- AWS Marketplace for Desktop Apps
- Bulk Actions and Search on the AWS Management Console
- Client network health checks
- Reconnect and Resume sessions
- Single Sign On for WorkDocs from WorkSpaces
- Enabling public IPs via AWS Management Console
- Full File Client Installer
Thank You
LONDON