



SUMMIT  
Berlin

# Well Architected WorkSpaces: Enterprise Deployment at Scale

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# Slide for Presenters

- **Audience:**
- **Services covered:** Amazon WorkSpaces
- **Rough level of the content:** [200]

# Agenda

Well Architected Review Presentation

Q&A, Whiteboard and Discussion

# AWS End User Compute

## Business needs

Work from anywhere  
on any device

Instantly access business  
apps and data

Be innovative  
and agile



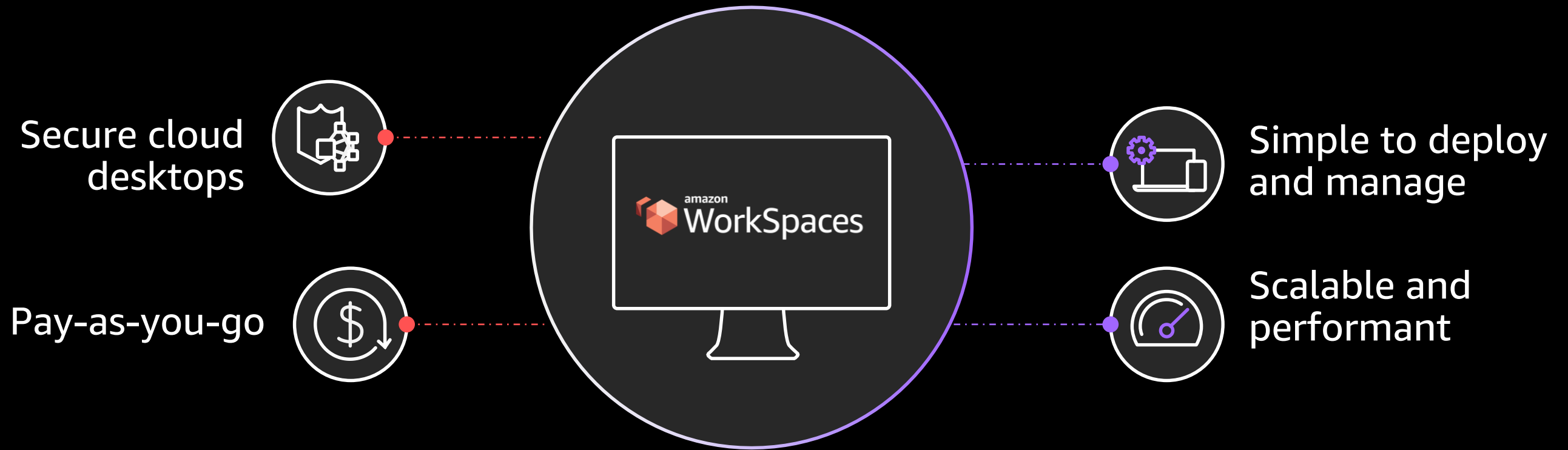
## IT needs

Secure data &  
control access

Enable user  
productivity

Reduce complexity  
and costs

# Amazon WorkSpaces

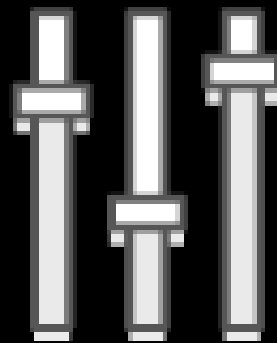


**Highly interactive cloud  
desktops users love**

# Why Would I Want To Apply The AWS Well-Architected Framework?



Build and  
deploy  
faster



Lower or  
mitigate  
risks



Make  
informed  
decisions



Learn AWS  
best  
practices

# WorkSpaces Well Architected Review

An assessment of environment for WorkSpaces deployment across relevant categories

Questions in each category designed to inform the most secure, high-performing, resilient, and efficient DaaS architecture

Rating criteria is a measurement of how you are doing today vs best practices. The grading is a judgment call comparing with other similar customers



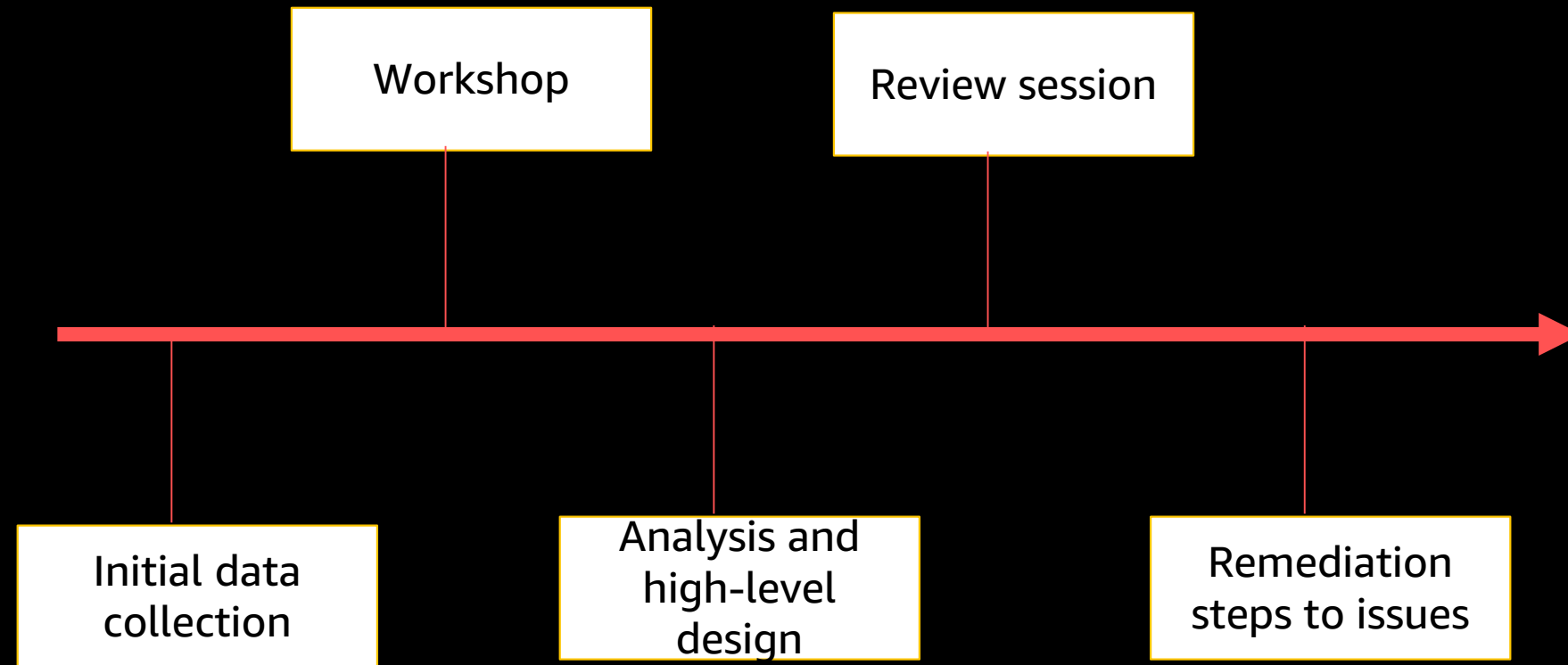


# WorkSpaces Well Architected Review process

## Who participates?

Project Management  
Security  
Client engineering  
Directory services  
Networking  
Helpdesk

Amazon Solution  
Architects



## Benefit

Final document on a design and schedule

Your team is on the same page – people who architect and the people who use it

An optimized WorkSpaces environment

Implement Best Practices

# Q&A – Whiteboard session

# General

Questions	Considerations
What is the business driver for this project?	Understand why the business unit is implementing Amazon WorkSpaces, not from a technical perspective but what is actually the compelling event or business driver
What is your expected adoption rate and growth rate?	Required to understand what limit increases will need to be requested to help meet deployment timelines.

# AWS Account

## Questions

Do you have AWS accounts today?

How do you access and secure AWS console?

## Considerations

Understand the purpose and management of different accounts, and familiarity with AWS accounts

Establish account security

# Security

Questions	Considerations
Are there any other security, audit or compliance requirements to be considered?	What, if any information needs to be captured for audit/compliance? Is periodic reporting required? If so, how often? Do logs need to be retained, and retained in any specific location?
Do you need to restrict access to certain types of users, by location or from Corporate only?	Multi-Factor Authentication, IP Whitelisting, Private end-point. Remember Amazon WorkSpaces uses public end-points.

# Network

Questions	Considerations
Do you allow routing to Internet IP addresses across your corporate network?	Direct routing of Internet IP addresses across the corporate network is required for WorkSpaces client to connect to the streaming gateway
If you have existing network connections (Internet, AWS Direct Connect, VPN) what is the bandwidth available on each of the links?	Need sufficient network bandwidth on the links to support WorkSpaces client access and access from clients to applications

# Directory

Questions	Considerations
<p>What does your AD environment look like, how many forests/domains, types of forest/domain?</p>	<p>Understand the complexity of the environment to determine the most appropriate connectivity strategy: AD Connector or Microsoft AD or both</p>
<p>Do you have any security policies related to creating and delegating access to an OU for an external service?</p>	<p>If using AD Connector, WorkSpaces will require an OU and permissions to create computer objects. User credentials for this service account must be granted to the WorkSpaces service and will be used by the AD Connector.</p>

# Clients

Questions	Considerations
What are the current desktop hardware configurations?	Consider CPU, memory, Storage, GPU, peripherals to try and match to correct WorkSpace bundle. Look out for performance implications
Will you allow users clipboard access between WorkSpaces and client?	Determining policies which need to be adjusted to fit your business case



# Forensics

## Questions

Do you have defined procedures and processes for desktop forensics today?

What is your data retention policy for desktops?

## Considerations

Determine if there is need to lock out users, perform investigations or archive disks. These items will require additional engineering and possibly 3rd party tools.

Plan on how to manage user drives/volumes, backup processes

# Operations

## Questions

How do you plan to license WorkSpaces? Win7 or Win10 or Desktop experience with license included (or is Linux an option you want to consider)?

## Considerations

Plan licensing coverage. Keep in mind Microsoft EA and SA are required with dedicated hosting, minimal commitment of 200 seats must be considered

How will users request a Workspace? Do you have a ticketing system / portal? How will you manage reboots, changes & rebuilds?

Plan on need to have any automation or integration with existing systems (Portal, ServiceNow, etc)

# Applications

## Questions

Do you have a defined portfolio of applications in scope for deployment onto WorkSpaces?

Do you know the application communication protocols?

## Considerations

Business units have different environments to support the application during the SDLC

Firewall rules needed, routes needed, etc.

Reach out to your AM to request Well  
Architected WorkSpaces Review

# Thank you!

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Please complete the  
session survey.