

How to Manage and Optimize your Amazon WorkSpaces and Amazon AppStream 2.0 Implementations

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AWS End User Computing

amazon
 AppStream 2.0
Applications

amazon
 WorkSpaces
Desktops

amazon
 WorkDocs
Documents

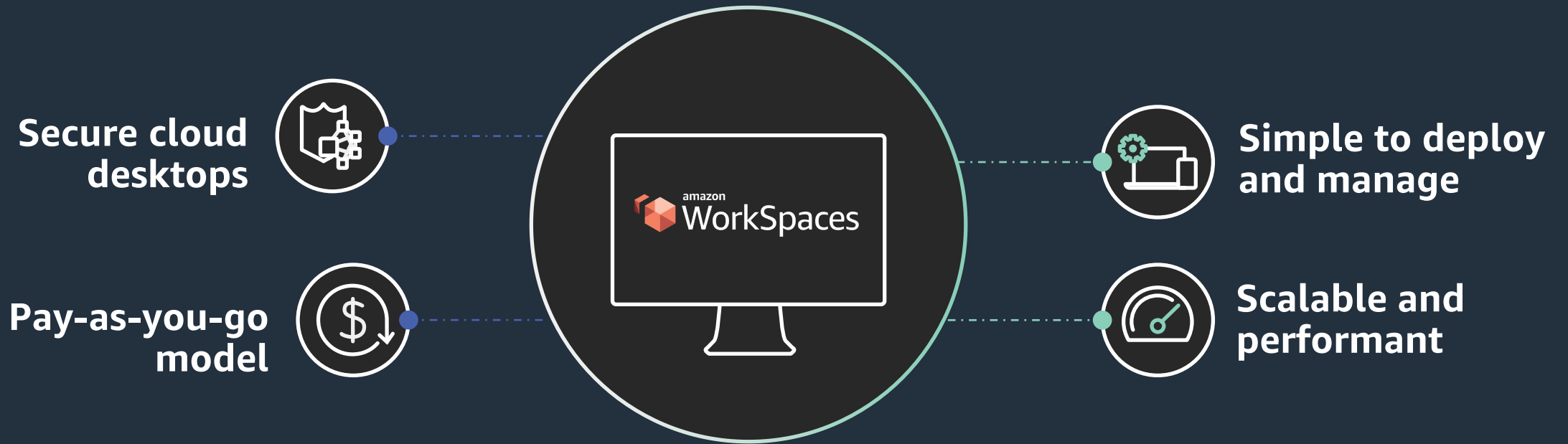


Learning Objectives

- Learn to Manage Your Bundles & Instance Types
- Learn how to Scale and Manage Your Fleet
- Understand Mode Management and Usage Reporting



Amazon WorkSpaces



**Highly interactive cloud
desktops**

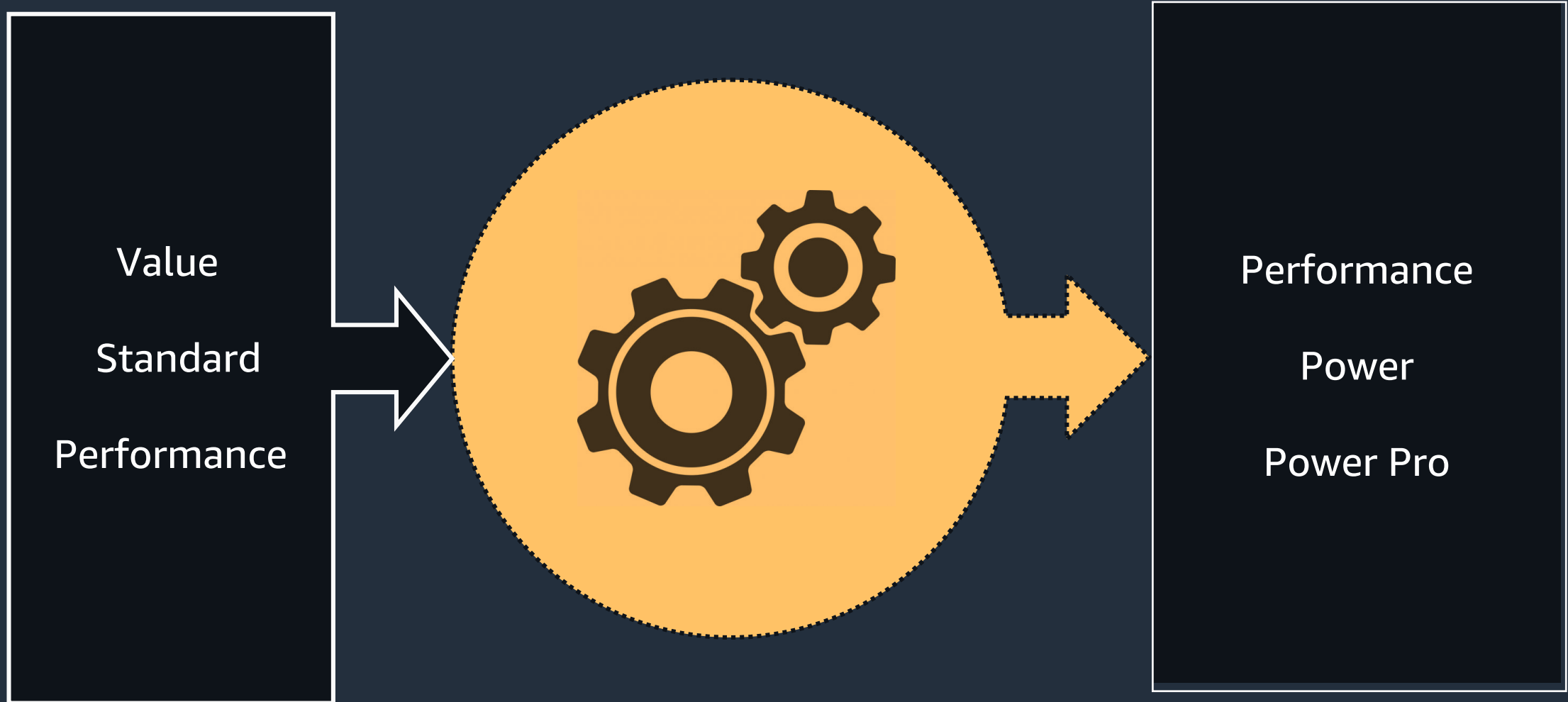
Amazon WorkSpaces – Bundle Management

- Verify deployed bundles are right-sized for the line of business apps
- Align bundle options to business needs and departments
- Create a Service Portal workflow for bundle increase requests instead of self-service options.

Standard	Root Volume	User Volume	Monthly Pricing
2 vCPU, 4 GiB Memory	80 GB	10 GB	\$29
2 vCPU, 4 GiB Memory	80 GB	50 GB	\$31
2 vCPU, 4 GiB Memory	80 GB	100 GB	\$34
2 vCPU, 4 GiB Memory	175 GB	100 GB	\$40
Performance	Root Volume	User Volume	Monthly Pricing
2 vCPU, 7.5 GiB Memory	80 GB	10 GB	\$41
2 vCPU, 7.5 GiB Memory	80 GB	50 GB	\$43
2 vCPU, 7.5 GiB Memory	80 GB	100 GB	\$46
2 vCPU, 7.5 GiB Memory	175 GB	100 GB	\$52
Power	Root Volume	User Volume	Monthly Pricing
4 vCPU, 16 GiB Memory	80 GB	10 GB	\$66
4 vCPU, 16 GiB Memory	80 GB	50 GB	\$68
4 vCPU, 16 GiB Memory	80 GB	100 GB	\$70



Amazon WorkSpaces – Bundle Management



Amazon WorkSpaces – Directory Sizing

AWS Directory Services offers 3 directory options that can be used with Amazon WorkSpaces

1. AD Connector = Free*
2. Simple AD = Free*
3. Managed Microsoft Active Directory (MAD)
 - Standard
 - Enterprise

<https://aws.amazon.com/directoryservice/other-directories-pricing/>



Amazon WorkSpaces – Running Mode Management

1. Verify the desired running mode is being used:

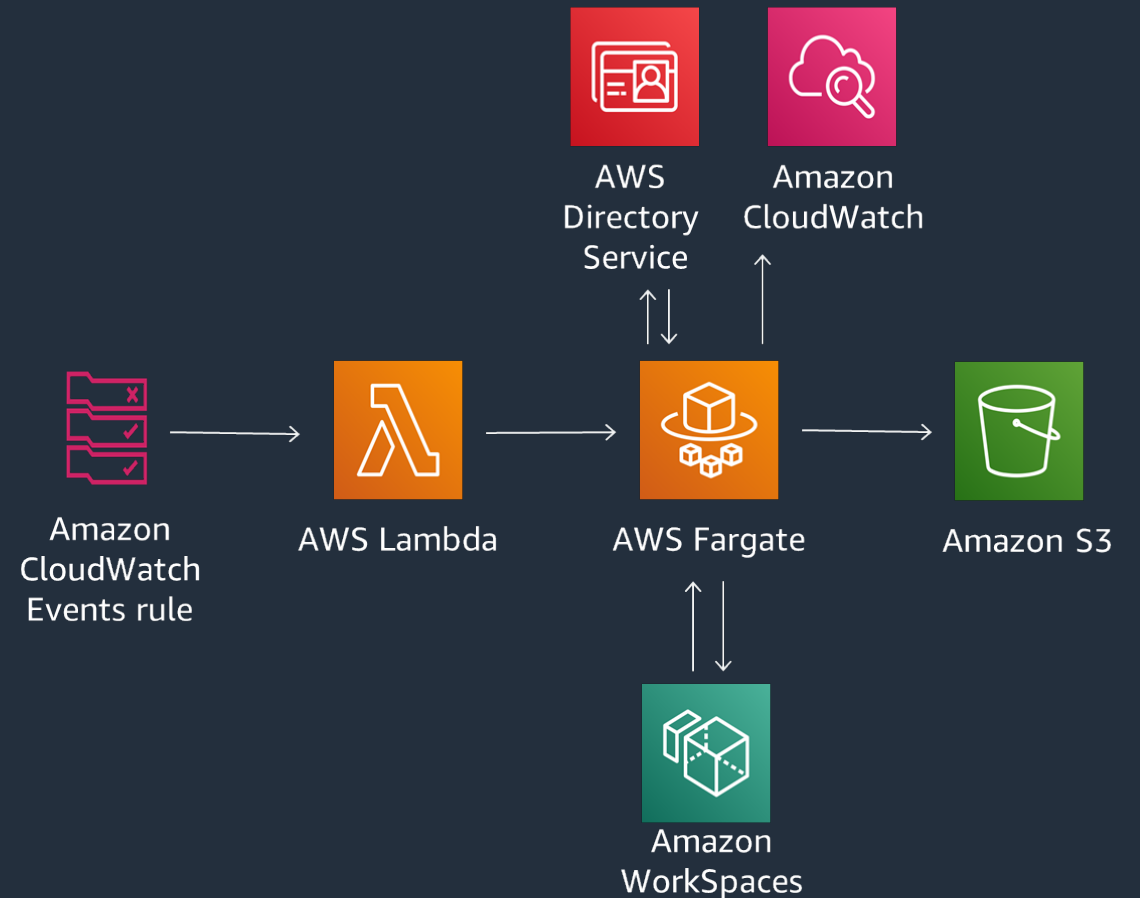
AlwaysOn

AutoStop

2. Leverage the WorkSpaces Cost Optimizer

Amazon WorkSpaces Cost Optimizer

AWS offers the **Amazon WorkSpaces Cost Optimizer**, a solution that analyzes all of your WorkSpace usage data and automatically converts the WorkSpace to the most cost-effective billing option (hourly or monthly), depending on your individual usage



<https://aws.amazon.com/solutions/amazon-workspaces-cost-optimizer>

AppStream 2.0



Deliver desktop applications to any computer

Amazon AppStream 2.0 – Running Mode Management

Amazon AppStream 2.0 Running Modes:

AlwaysOn Fleet

On Demand Fleet

Tip: Use On-Demand fleets to lower instance costs

Amazon AppStream 2.0 – Instance Types

Instance Family Types
General Purpose
Compute Optimized
Memory Optimized
Graphics Desktop
Graphics Pro
Graphics Design
Graphics G4

- Tip: Verify the correct instance family is used for the workload.
- Tip: Create multiple fleets of differing family types to support users and line of business apps

Amazon AppStream 2.0 – Scaling Policies

1. Scale-Out Policies
2. Scale-In Policies
3. Scheduled Policies
4. Target Tracking Policies

Tip: Scaling policies should be monitored and reviewed periodically for optimization. As a starter, set the scaling policy minimum capacity value to the lowest possible value for your use case and scale-out based on fleet utilization.



Amazon AppStream 2.0 – Usage Reports

Usage Reports provide detailed information on the AppStream 2.0 session. Some of the (33) captured fields include:

UserID	Session Duration	Stack Name	User IP Address
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References

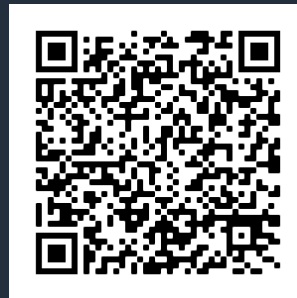
Amazon WorkSpaces
Work From Home Offer



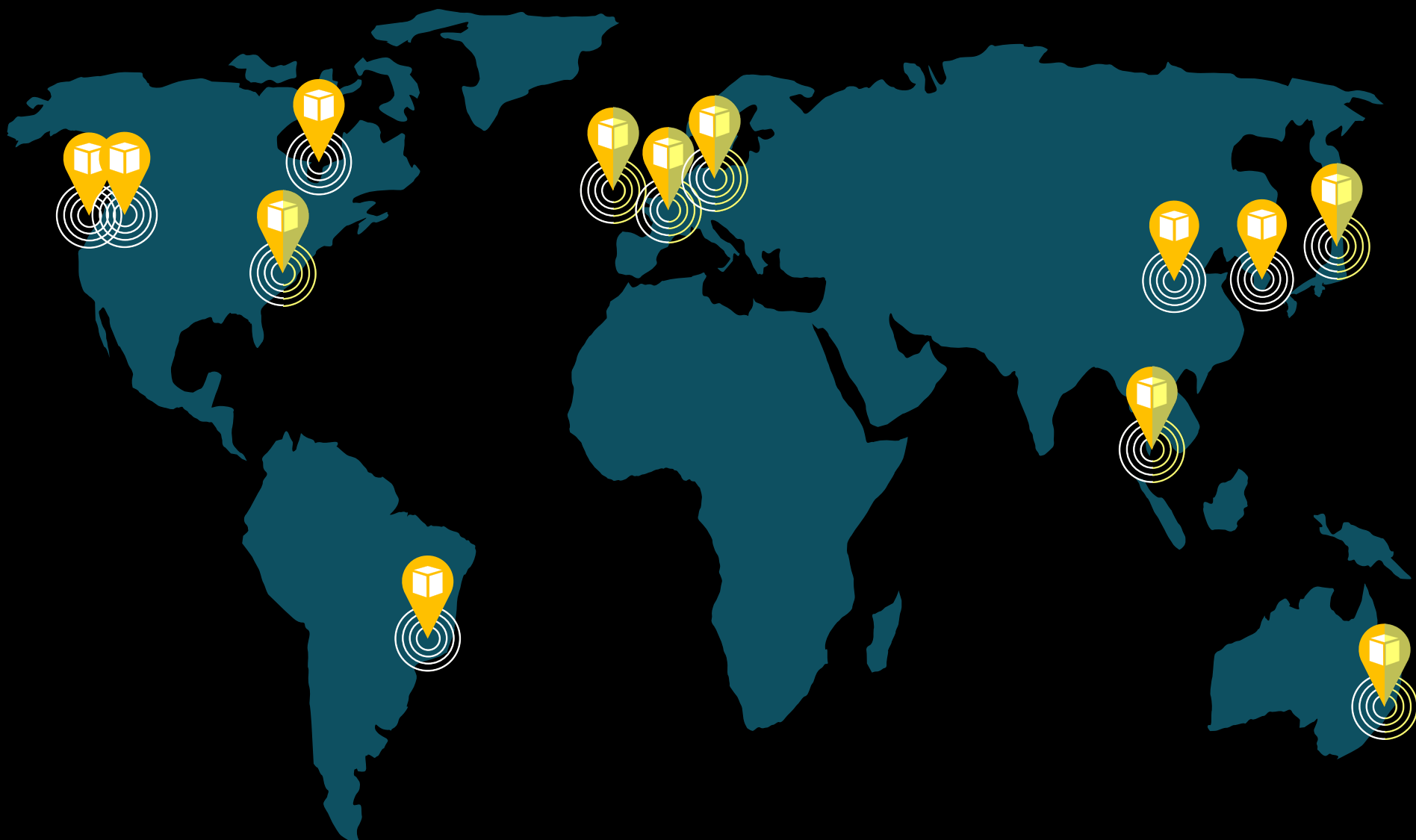
Amazon WorkSpaces
Cost Optimizer



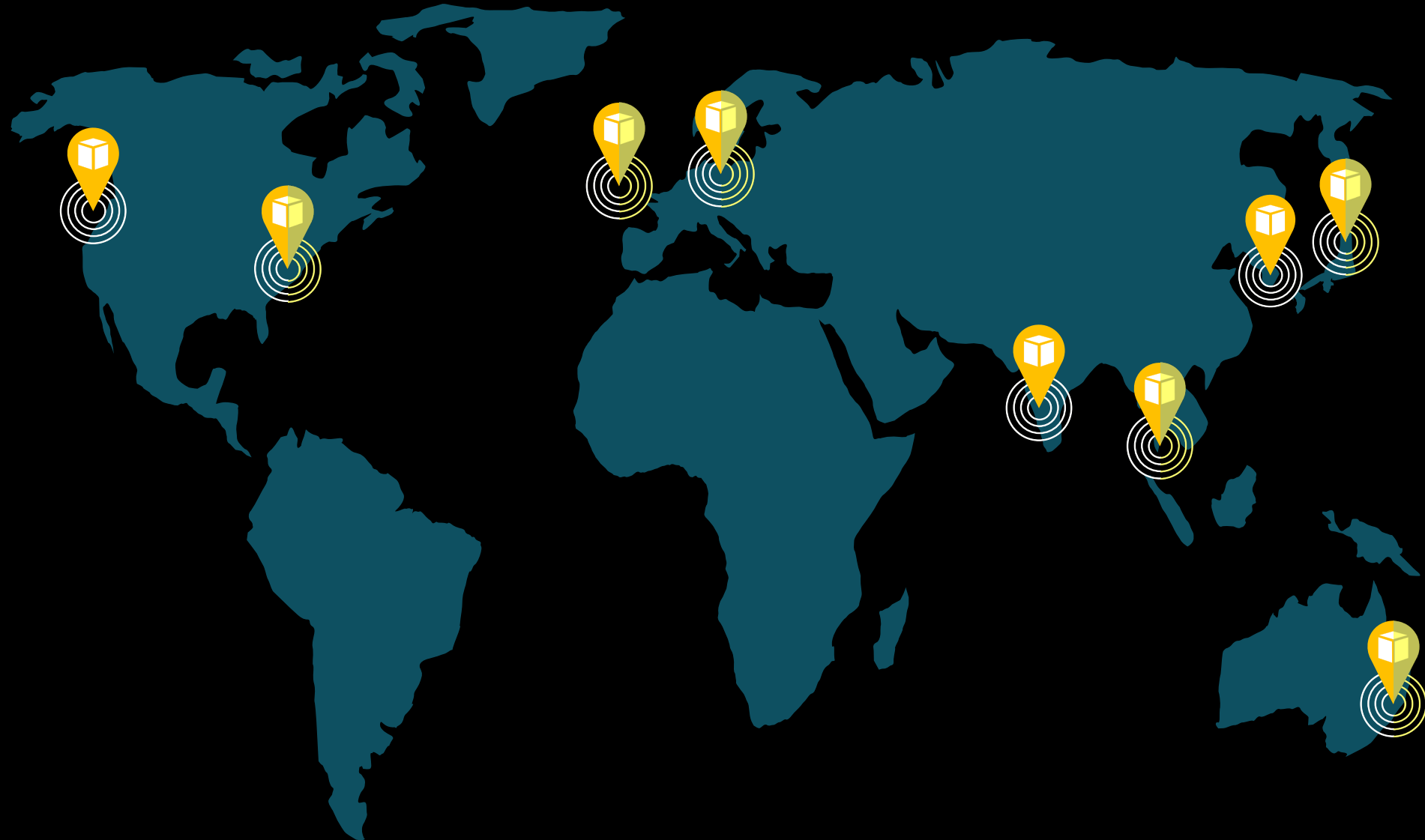
Amazon AppStream 2.0 Usage Reports



Global Availability – Amazon WorkSpaces



Global Availability – Amazon AppStream 2.0



Q&A

Questions?



Thank You!



Let's build.