AWS re:Invent

EUC303

Scaling and optimizing Amazon WorkSpaces

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AWS re:Invent

Learning objectives

Effectively manage large Amazon WorkSpaces deployments

Amazon WorkSpaces self-service portal + AWS Service Catalog

Help users self-enable, or centralize administration

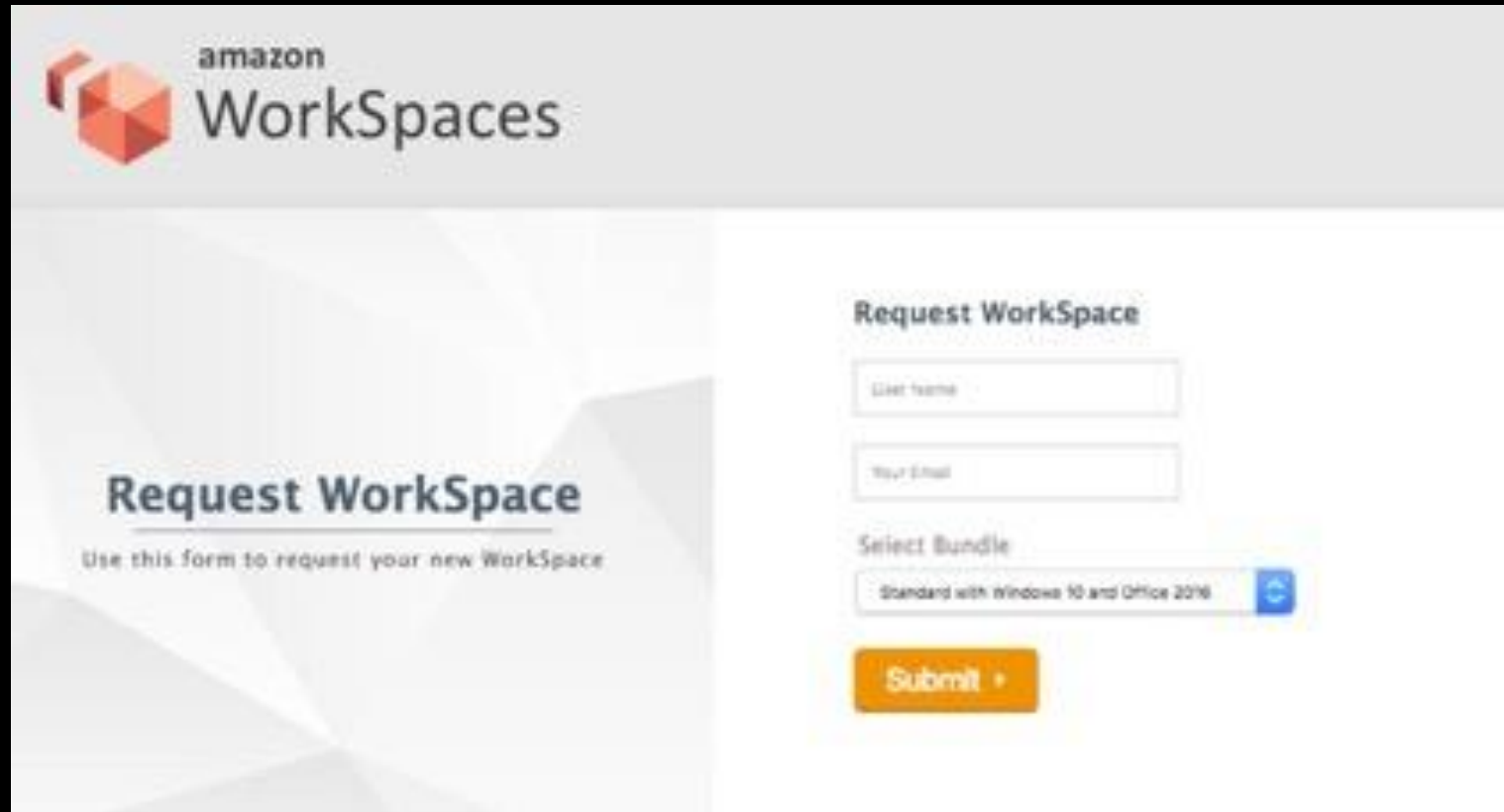AWS Service Catalog + AWS OpsWorks

Integrate Amazon WorkSpaces with existing solutions

Active Directory (AD) Connector + AWS Direct Connect

Reduce costs with bundles and running modes

Amazon WorkSpaces Cost Optimizer

Amazon WorkSpaces self-service portal

Creating a self-service portal for Amazon WorkSpaces end users

https://amzn.to/34TBJ7t

Process:

- Using Amazon S3, Amazon DynamoDB, and AWS Step Functions, provision an approval workflow
- User requests initiate email chain
- If approved, Step Functions triggers AWS Lambda to provision Amazon WorkSpaces
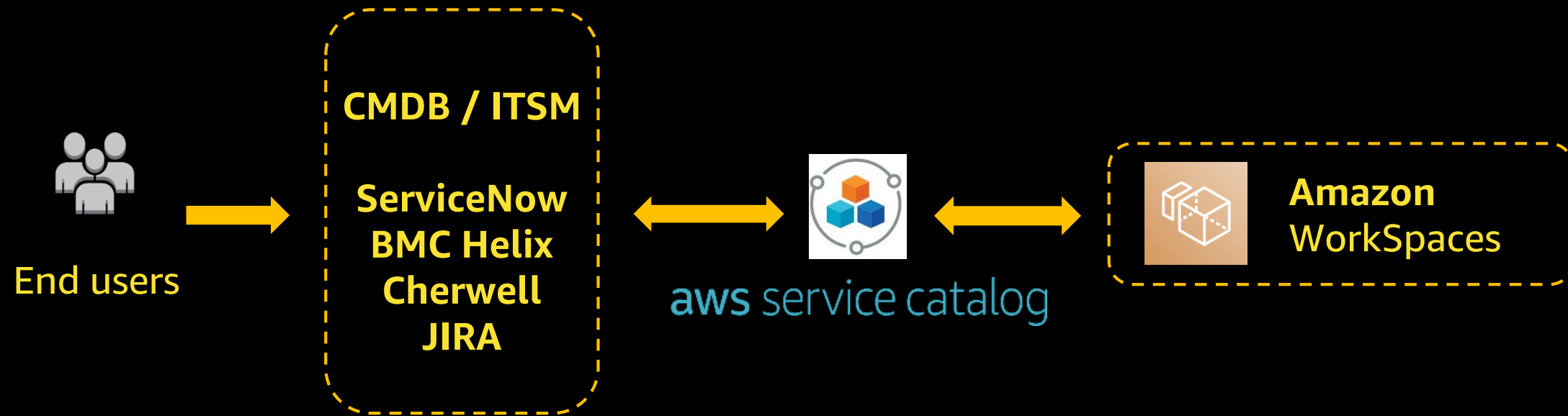
Benefits:

- Employees can self-enable
- Lower operational cost and complexity
- Improve audit trail and management

Amazon WorkSpaces + AWS Service Catalog

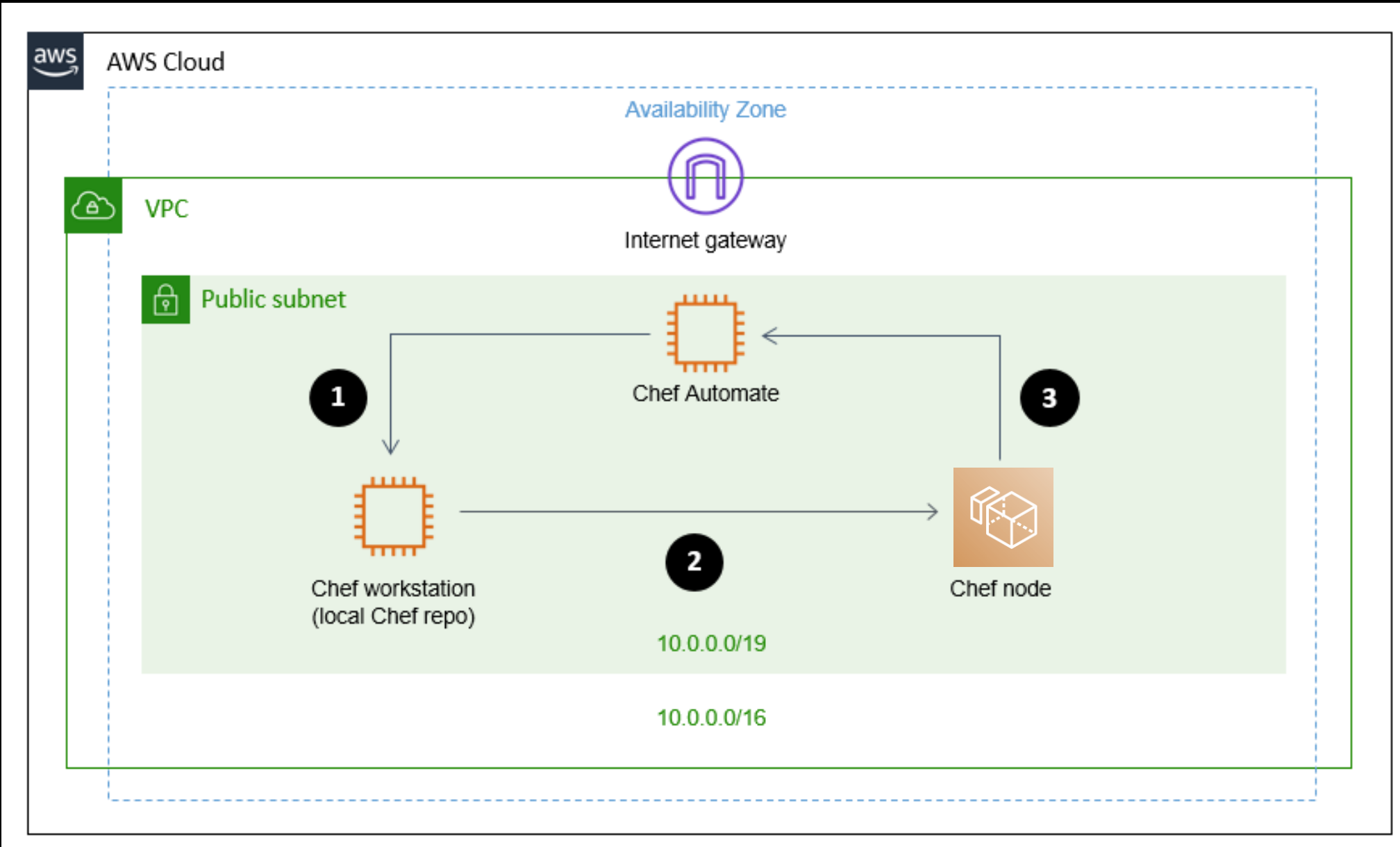## Managing Amazon WorkSpaces by integrating AWS Service Catalog with ServiceNow

https://amzn.to/2GpwMdf

CMDB / ITSM

ServiceNow
BMC Helix
Cherwell
JIRA

End users

aws service catalog

Amazon WorkSpaces

Enterprises:

- Reduce time to onboard and scale

- Build new or leverage existing workflows, improving audit for CMDB

End users:

- Simple self-service interface

- Request a new or upgraded Amazon WorkSpace

- Start, stop, reboot, or rebuild

AWS OpsWorks for Chef Automate

AWS Cloud

Availability Zone

Internet gateway

VPC

Public subnet

1 → Chef Automate

2 → Chef workstation (local Chef repo) → Chef node

3

10.0.0.0/19

10.0.0.0/16

Provision managed **Chef Automate** server without the need for a full Chef server

AWS OpsWorks maintains and patches the Chef Automate server

Develop **Ruby cookbooks** and **recipes** to handle package enforcement, access controls, and compliance

Managing Amazon Linux WorkSpaces at Scale Using AWS OpsWorks for Chef Automate
https://bit.ly/34RQd7O

Case study: GrubHub

Using Amazon WorkSpaces APIs, GrubHub was able to scale from a handful of Amazon WorkSpaces to over 1,200 in two days

With Amazon WorkSpaces and the AWS Service Catalog, GrubHub has the ability to scale up or down quickly, based on new information and changing work patterns

GRUBHUB

Case study: Kyowa Kirin

With Amazon WorkSpaces, Kyowa Kirin no longer has to guess size and scale – the number of Amazon WorkSpaces customers can provision is limitless
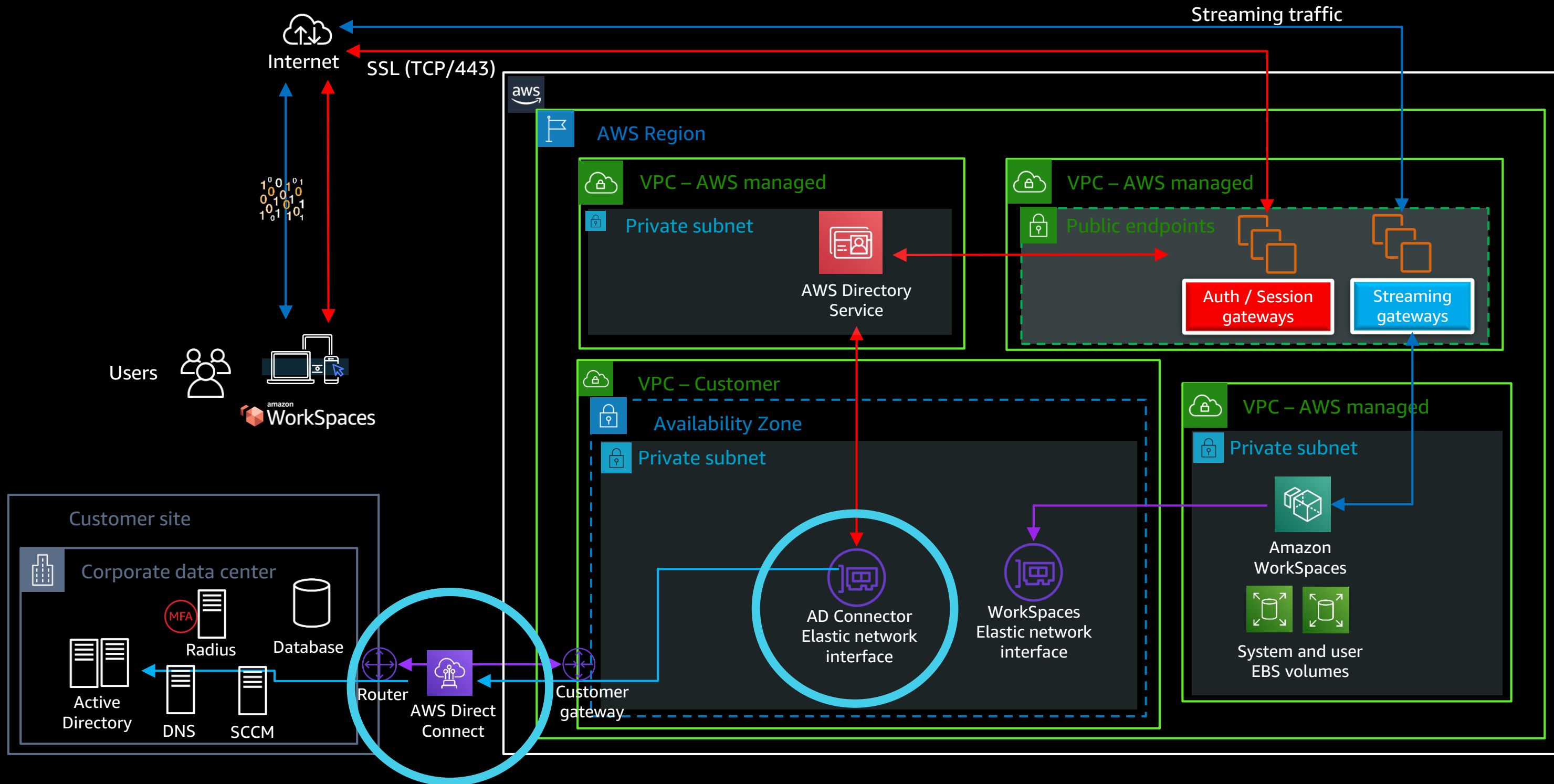
Kyowa Kirin reduced costs by 30% over its self-hosted VDI solution

Amazon WorkSpaces integrates with your environment

Amazon WorkSpaces + AD Connector

Amazon WorkSpaces reduces costs

Consider the Performance bundle

**Amazon WorkSpaces announces price reduction
of up to 20% on the Performance bundle**

https://amzn.to/34VZ2h7

2vCPUs + 8 GB RAM for both Windows and Linux WorkSpaces

80 GB and 175 GB root (C:) volumes available

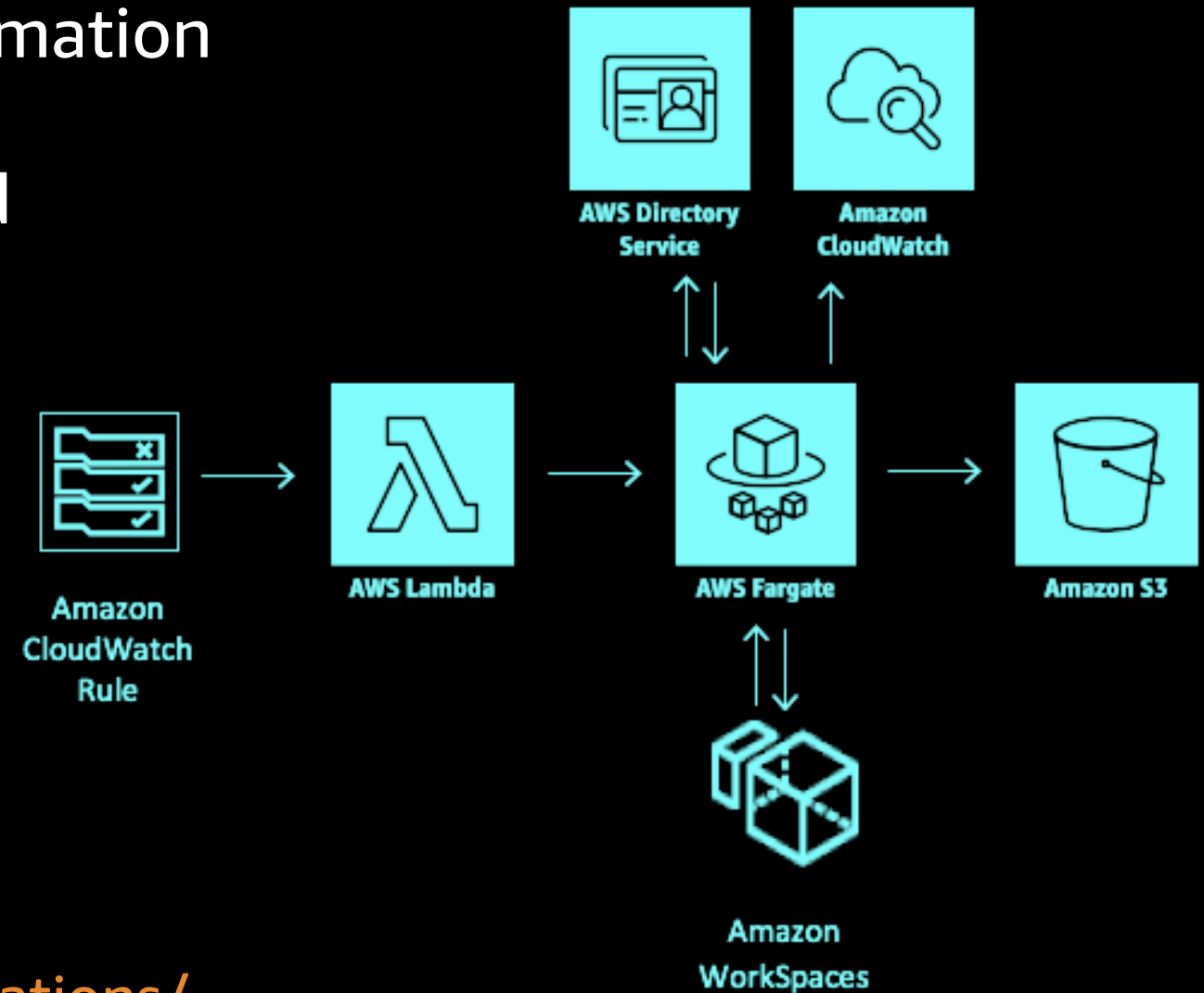50 GB and 100 GB user (D:) volumes available

Amazon WorkSpaces Cost Optimizer

Automatically deployed via AWS CloudFormation

Leverages AWS Lambda, AWS Fargate, and Amazon CloudWatch to identify savings

Change running mode via API

Provides customer vision of fleet utilization

Amazon WorkSpaces Cost Optimizer

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

Leverage your staff and processes

Extend the **same workflows** you use today

Networking, infrastructure, and support use **central AWS console**

Federate your **existing security model** via Group Policy and IAM

Provision instances using the **console** or our **API** catalog

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