
AWS
re:Invent
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EUC308

Best practices for migrating on-premises VDI workloads to the cloud

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What is your top migration challenge?

Pace of execution?

Latency?

User data?

What's missing?



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Understand your end users

- Use case and usage patterns
- Locations
- Physical endpoint devices
- Unique hardware requirements
- Applications and workflows



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Design considerations

BUSINESS

1. Understand and get buy-in from your key stakeholders

2. Pick the technology solution to match end-user requirements

3. Resiliency (SLA, RTO, and RPO)

Any other ideas?



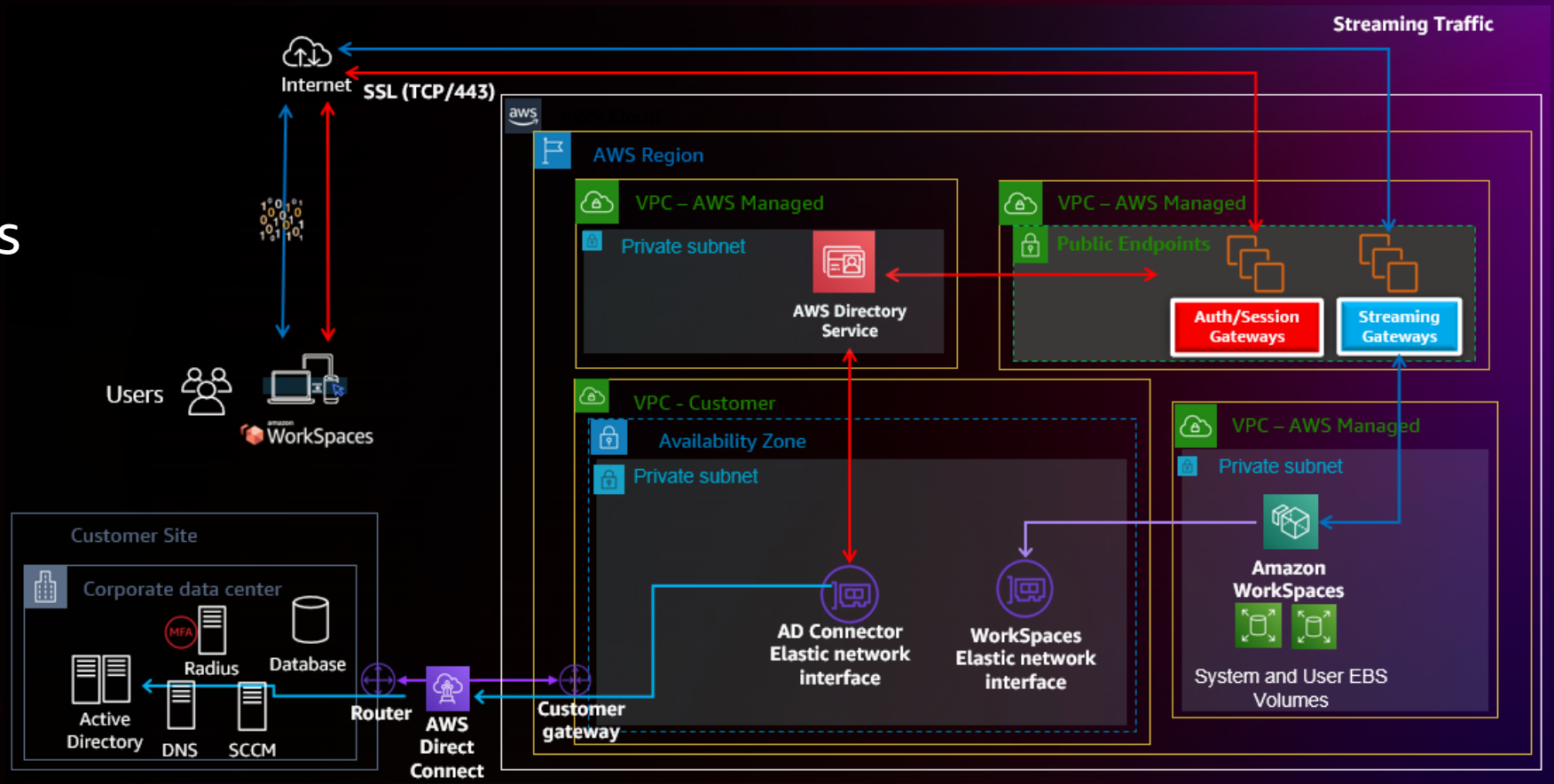
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Design considerations

TECHNICAL

- AWS Regions
- AWS Landing Zone – AWS Control Tower? Automated?
- AWS VPC and subnets
- End-user operating system requirements



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Design considerations

TECHNICAL

Deploy supporting infrastructure in AWS across multiple availability zones:

- Active Directory domain controllers and DNS servers
- RADIUS servers for MFA
- File shares
- Ancillary supporting servers
- Application servers or services

Redundant network pathing options for on-premises connectivity

Follow the AWS Well-Architected Framework



AWS Well-Architected

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Implementation

Automation of AWS Landing Zone (AWS account, AWS Control Tower, AWS CloudTrail, IAM, and policies)

Automation of AWS VPC, subnets, NACLs, and routing tables

Connectivity to additional services on premises (Direct Connect v VPN)

Baking a custom image

```
Get-WKSWorkspace | foreach {
    $connectionStatus = Get-WKSWorkspacesConnectionStatus -WorkspaceId
$_.WorkspaceId;
    $info= [pscustomobject]@{
        WorkspaceId = $_.WorkspaceId
        LastStateCheck=$connectionStatus.ConnectionStateCheckTimestamp
        UserLastActive=$connectionStatus.LastKnownUserConnectionTimestamp
        Directory= $_.DirectoryId
        Compute=$_.WorkspaceProperties.ComputeTypeName
        Runningmode= $_.WorkspaceProperties.RunningMode
        State= $_.State
    }
    $output.Add($info) | Out-Null
}

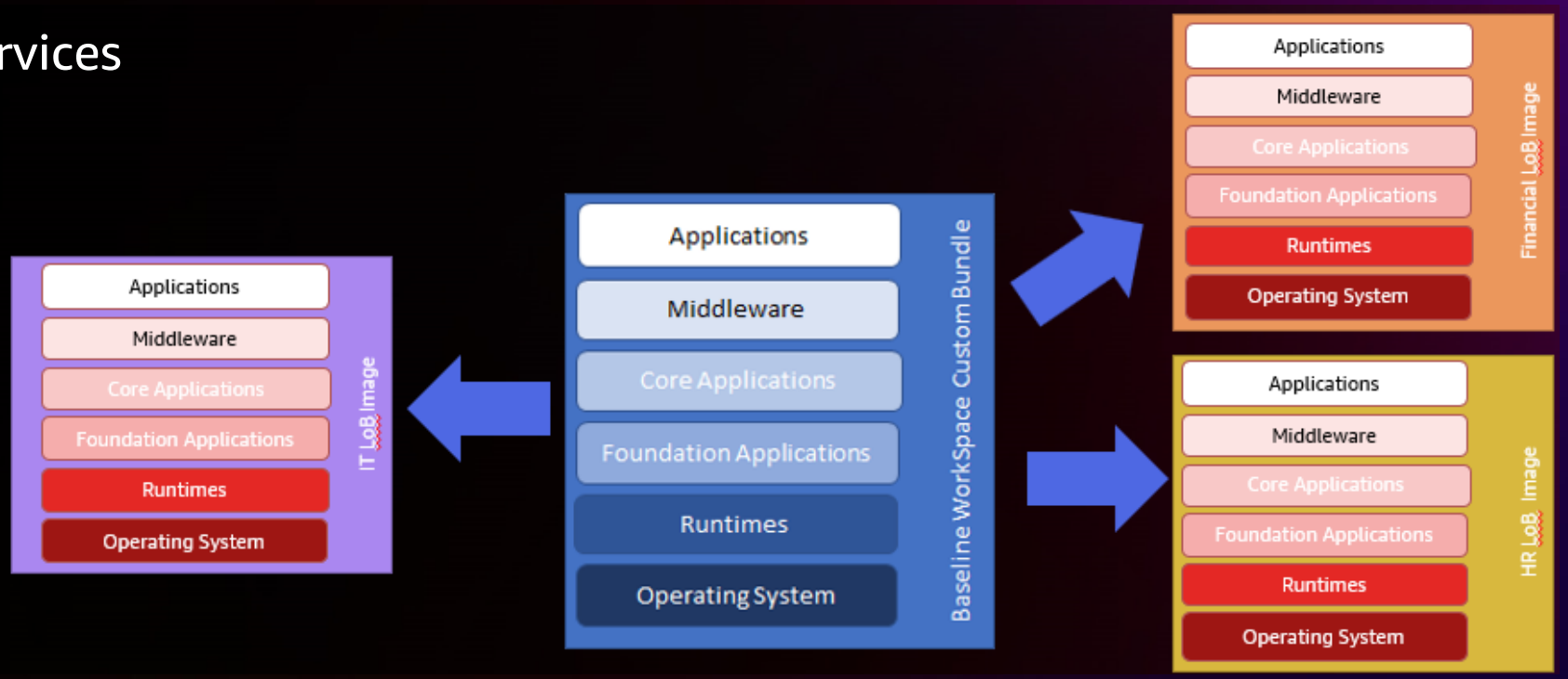
$output | Export-Csv -NoType workspaceinfo.csv
```

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How do you manage user profiles?

Roaming profile or profile synchronization solutions

- Out-of-the box Active Directory roaming profiles
- Third-party profile sync solutions
- Sync to file shares on Amazon EC2 or Amazon FSx for Windows File Server
- Amazon FSx File Gateway services



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How do you do file sharing?

Traditional Windows SMB file share on Amazon EC2?

File share on FSx for Windows File Server

File sharing and collaboration solution, such as Amazon WorkDocs

- Mounts a local drive, synchronizes the contents to the AWS Cloud
- Access your files from anywhere on any device



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Pilot to production

TIPS FOR SUCCESS

- Friendly power user from the business
- Repeatable user acceptance test (UAT) plan
- Real-world users
- Production pilot group
- Scale based on your needs
- Any other ideas?



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Operations

Automation of asset management

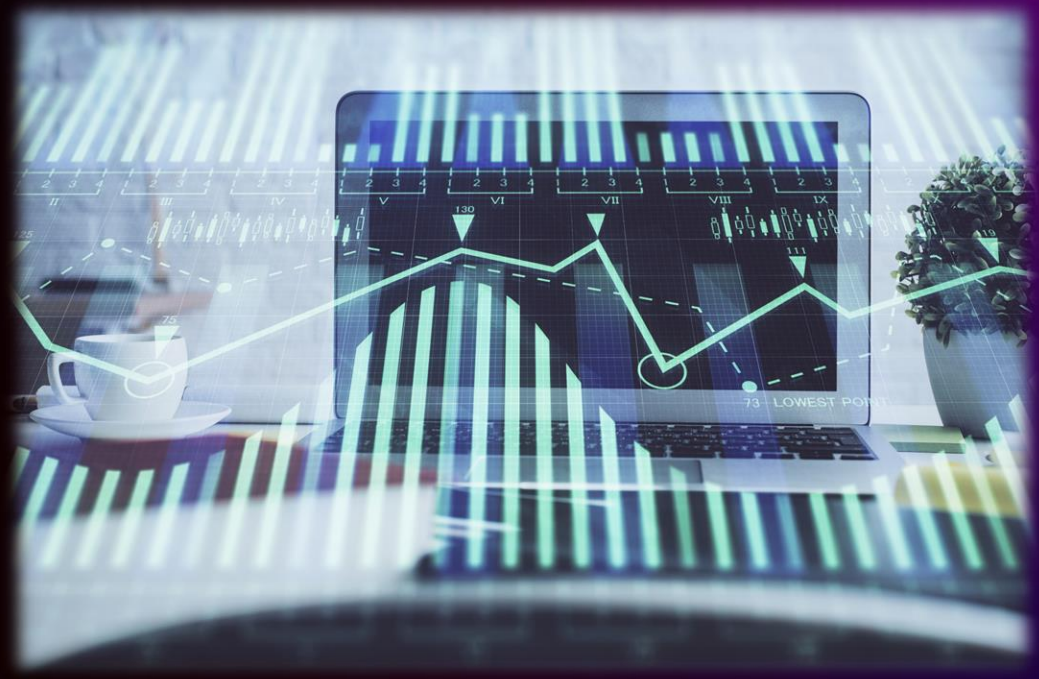
Tooling – Self-service portal

Maintaining OS patching and app versions

Help desking

AWS account service quotas

Any other ideas?



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Cost optimization

Right sizing instances

Cost Optimizer for Amazon WorkSpaces

Amazon AppStream 2.0 fleet scaling review



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Next steps and resources

Talk to your AWS account team or AWS Partner

AWS Well-Architected
https://tinyurl.com/3968dxwa

Best practices for deploying
Amazon WorkSpaces
https://tinyurl.com/bd66hyvf

Best practices for deploying
Amazon AppStream
https://tinyurl.com/ypw8uzme

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Learn more about AWS End User Computing

Type	Code	Level	Day / Time	Title	Speakers
Chalk talks	EUC 301 – R1	300	12/01, 11:45a – 12:45p	Securely stream AWS workloads to your remote workers	Andrew Morgan, Ariel Fu

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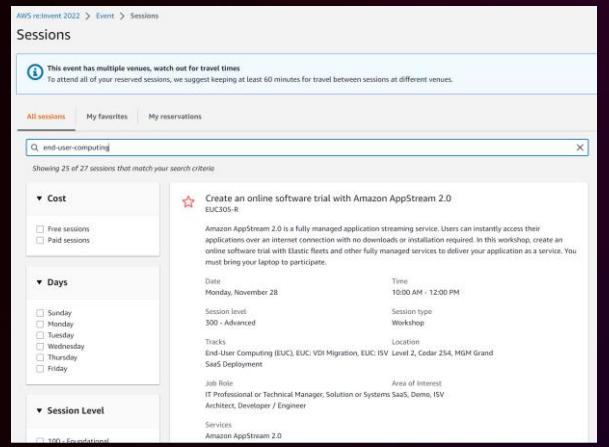
AWS End User Computing Reception

November 30, 2022 | 6:00PM - 9:00PM PST

Electra Cocktail Club, 3325 South Las Vegas Boulevard, Las Vegas, NV 89109

bit.ly/3hMzcVB

Visit the EUC re:Invent session catalog



bit.ly/3TGUGAi

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Thank you!

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