

The background features a vibrant, multi-colored gradient. It starts with a dark blue on the left, transitions through purple and magenta, and then into bright orange and yellow towards the right. A diagonal line separates the darker blue on the left from the lighter colors on the right.

AWS
re:Invent

WIN307

Manage Windows instances at scale with Systems Manager

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Agenda

Presentation 10 minutes

Challenges 1–4 ~25 minutes each

Wrap-up 10 minutes

AWS Systems Manager

Cloud management challenges

Managing cloud and hybrid environments using a traditional toolset is complex and costly



Traditional IT toolset not built for cloud-scale infrastructure



Maintaining enterprise-wide visibility is challenging



Deploying multiple products is a significant overhead



Licensing costs and complexity

Customer challenges



Operate safely and securely at scale



Map resources to applications and environments



Diverse set of tools for managing hybrid cloud



Complex licensing and hard to manage the management infrastructure



Ability to build custom solutions to meet specific business needs

Systems Manager capabilities



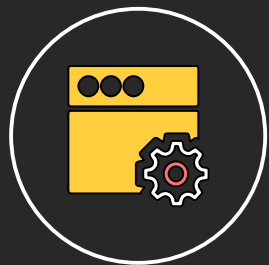
Resource Groups



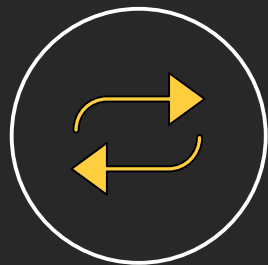
Patch Manager



State Manager



Run Command



Automation



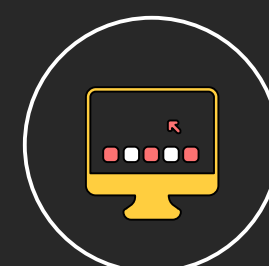
Maintenance Window



Inventory



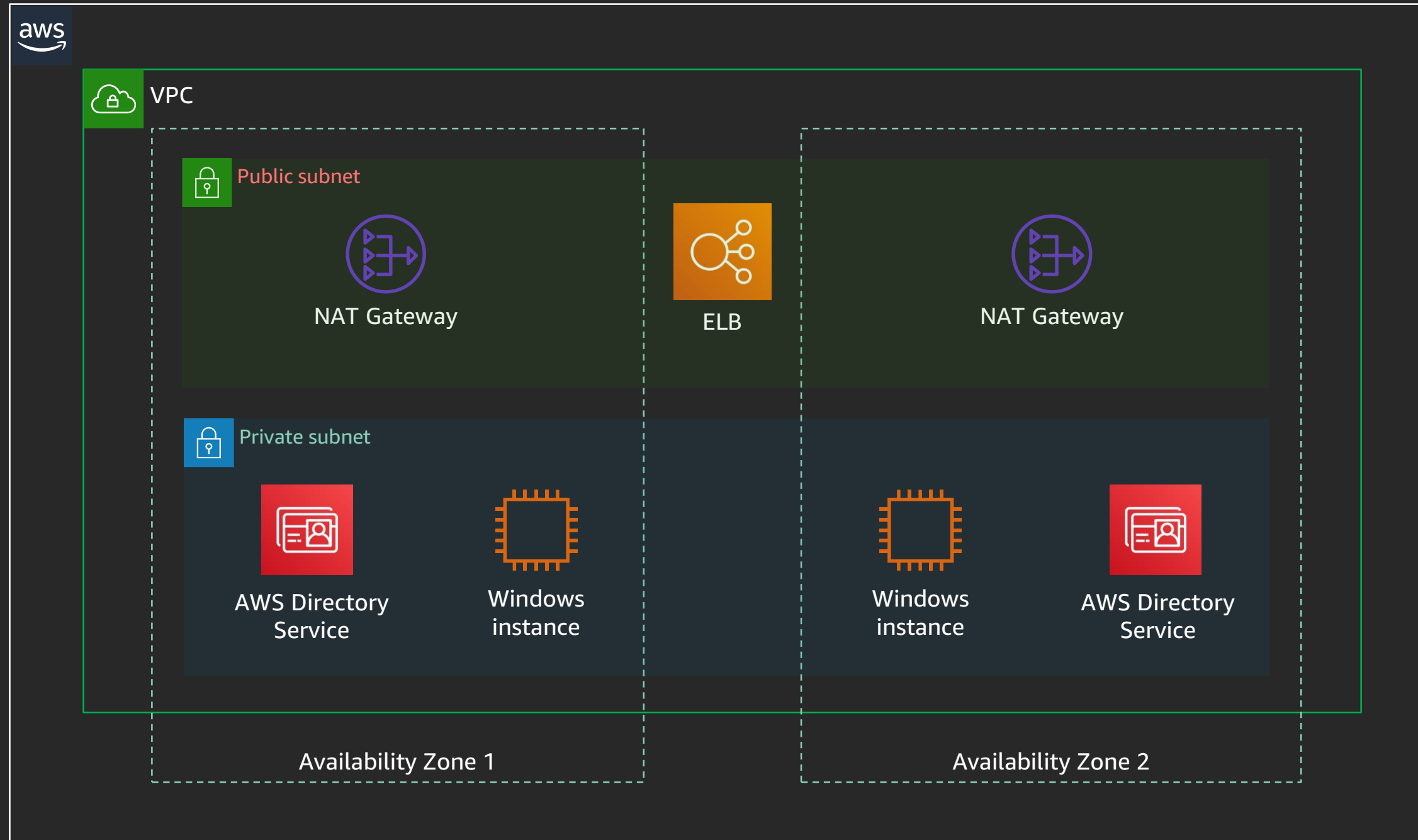
Parameter Store



Session Manager

Challenges

Application architecture



The application

```
<%@ Page Title="" Language="C#" Trace="true"%>
```

Request Details

Session Id:	4q5d2zjxmstsfghdbckxnmyh	Request Type:	GET
Time of Request:	9/29/2019 10:34:18 AM	Status Code:	200
Request Encoding:	Unicode (UTF-8)	Response Encoding:	Unicode (UTF-8)

Trace Information

Category	Message	From First(s)	From Last(s)
aspx.page	Begin PreInit		
aspx.page	End PreInit	0.000012	0.000012
aspx.page	Begin Init	0.000018	0.000007
aspx.page	End Init	0.000024	0.000006
aspx.page	Begin InitComplete	0.000029	0.000005
aspx.page	End InitComplete	0.000034	0.000005
aspx.page	Begin PreLoad	0.000039	0.000005
aspx.page	End PreLoad	0.000044	0.000005
aspx.page	Begin Load	0.000049	0.000005
aspx.page	End Load	0.000056	0.000007
aspx.page	Begin LoadComplete	0.000061	0.000005
aspx.page	End LoadComplete	0.000066	0.000005
aspx.page	Begin PreRender	0.000071	0.000005
aspx.page	End PreRender	0.000077	0.000005
aspx.page	Begin PreRenderComplete	0.000082	0.000006
aspx.page	End PreRenderComplete	0.000088	0.000005
aspx.page	Begin SaveState	0.000105	0.000018
aspx.page	End SaveState	0.000111	0.000005
aspx.page	Begin SaveStateComplete	0.000116	0.000005
aspx.page	End SaveStateComplete	0.000122	0.000007
aspx.page	Begin Render	0.000127	0.000005
aspx.page	End Render	0.000145	0.000018

Challenge #1: Fix the application

- 1) Use **Systems Manager Session Manager** to log in and find the issue
- 2) Use **Systems Manager Run Command** to fix the issue

Challenge #2: Automate inventory and patching

1) Use **Systems Manager Inventory** to configure inventory

2) Use **Systems Manager Patch Manager** to configure patching

Challenge #3: Automate domain join

1) Use **Systems Manager State Manager** to configure domain join

Challenge #4: Create a custom image

- 1) Create an AMI from one of the instances and put the ID of the new AMI in **Systems Manager Parameter Store**
- 2) Use **Systems Manager Automation** to create a new AMI every Saturday with the latest patches installed

Workshop

Wrap-up

Thank you!



Please complete the session survey in the mobile app.