
AWS
re:Invent

WIN302

Managing and governing Windows workloads on AWS

Aaron Lima

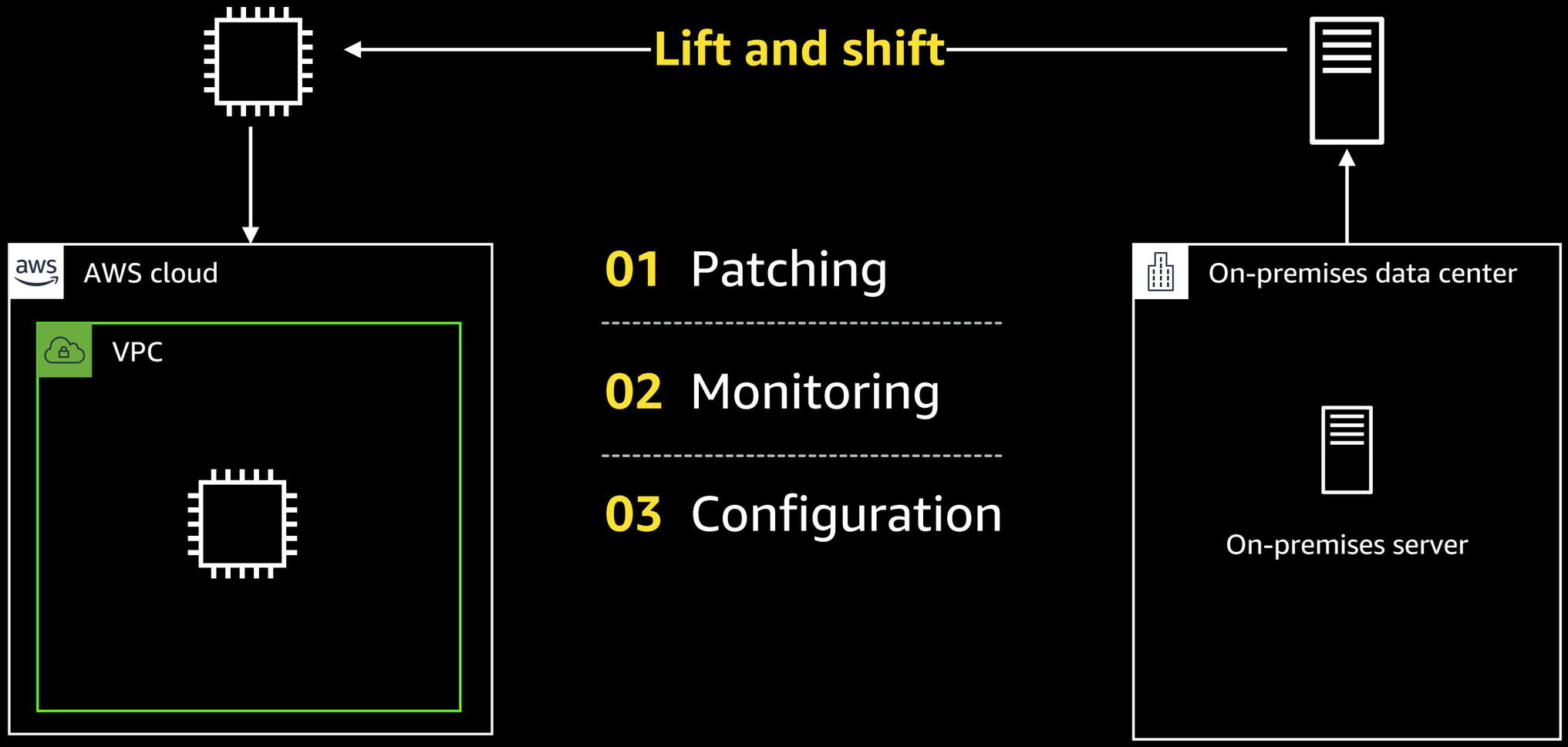
Principal Microsoft Tech Solutions Architect

AWS

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What’s next?



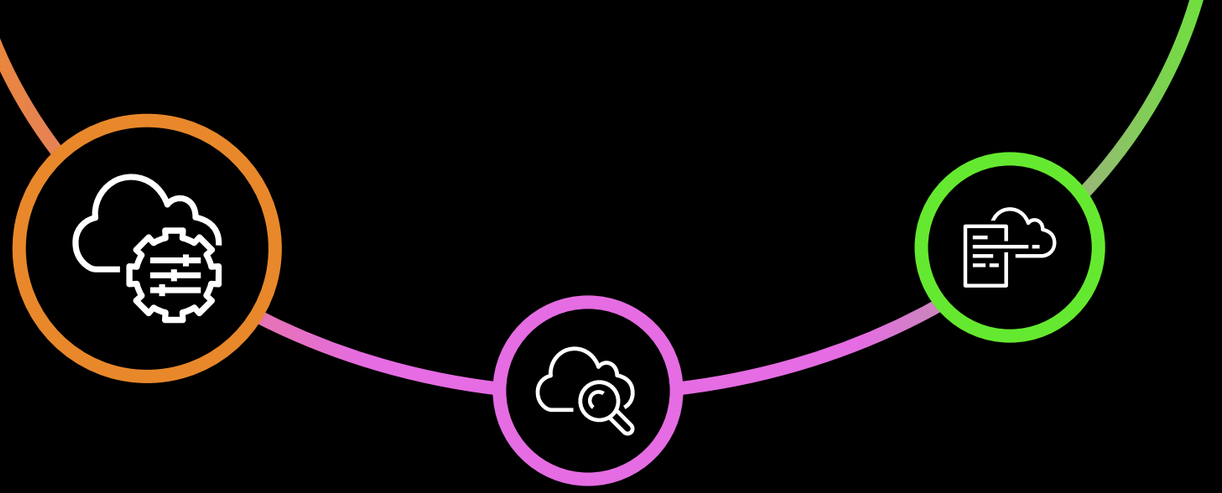
01 Patching

02 Monitoring

03 Configuration

Services covered





Systems Manager

Systems Manager capabilities



Systems Manager

Gives you visibility and control of your infrastructure on AWS



Run command

Remotely and securely manage the configuration of your managed instances at scale



Session manager

Manage Amazon EC2 Windows instances through interactive one-click browser-based shell or through the AWS CLI



Parameter store

Provides secure, hierarchical storage of configuration data and secrets management



Documents

Defines the actions SSM performs with command and automation documents



Patch manager

Automate the process of patching your managed instances



Maintenance window



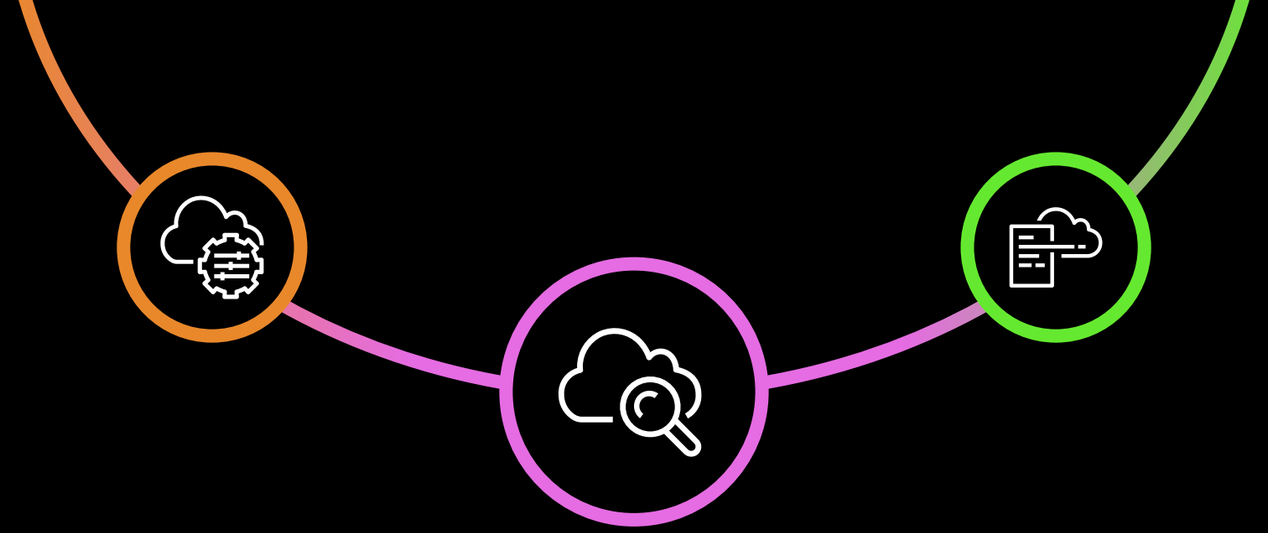
Automation



Inventory

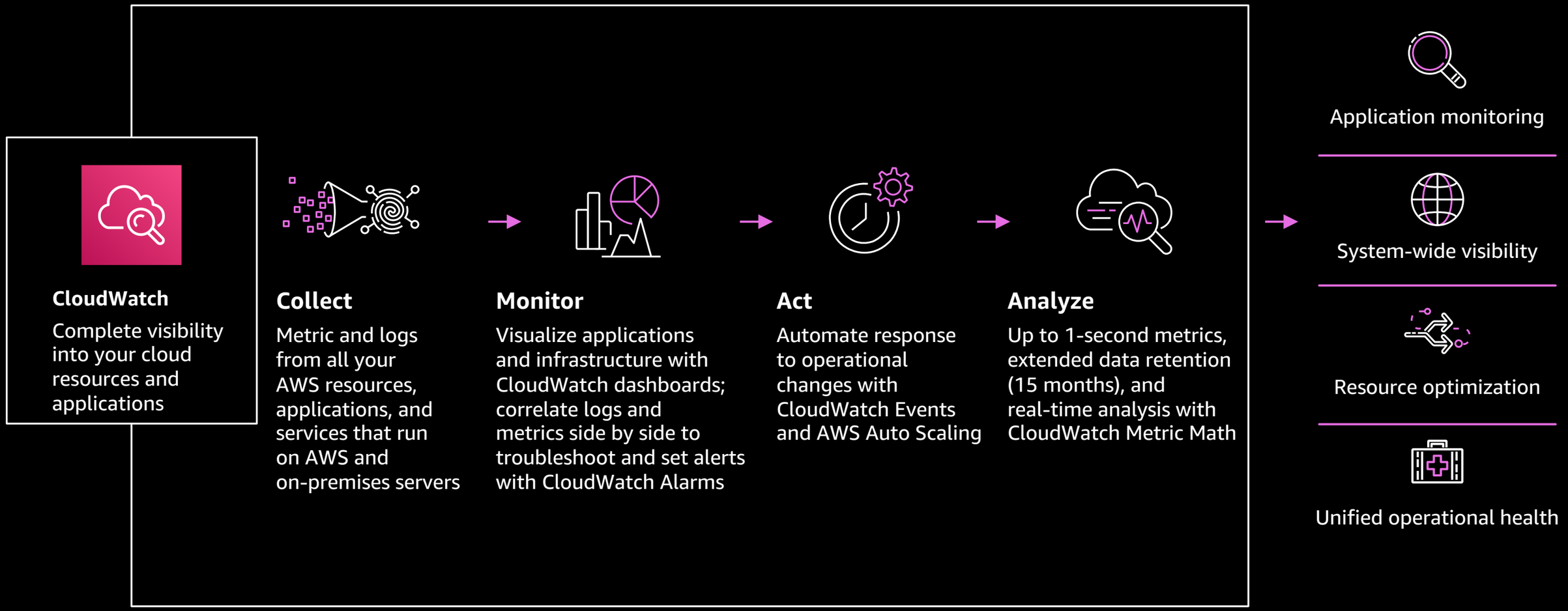


State manager

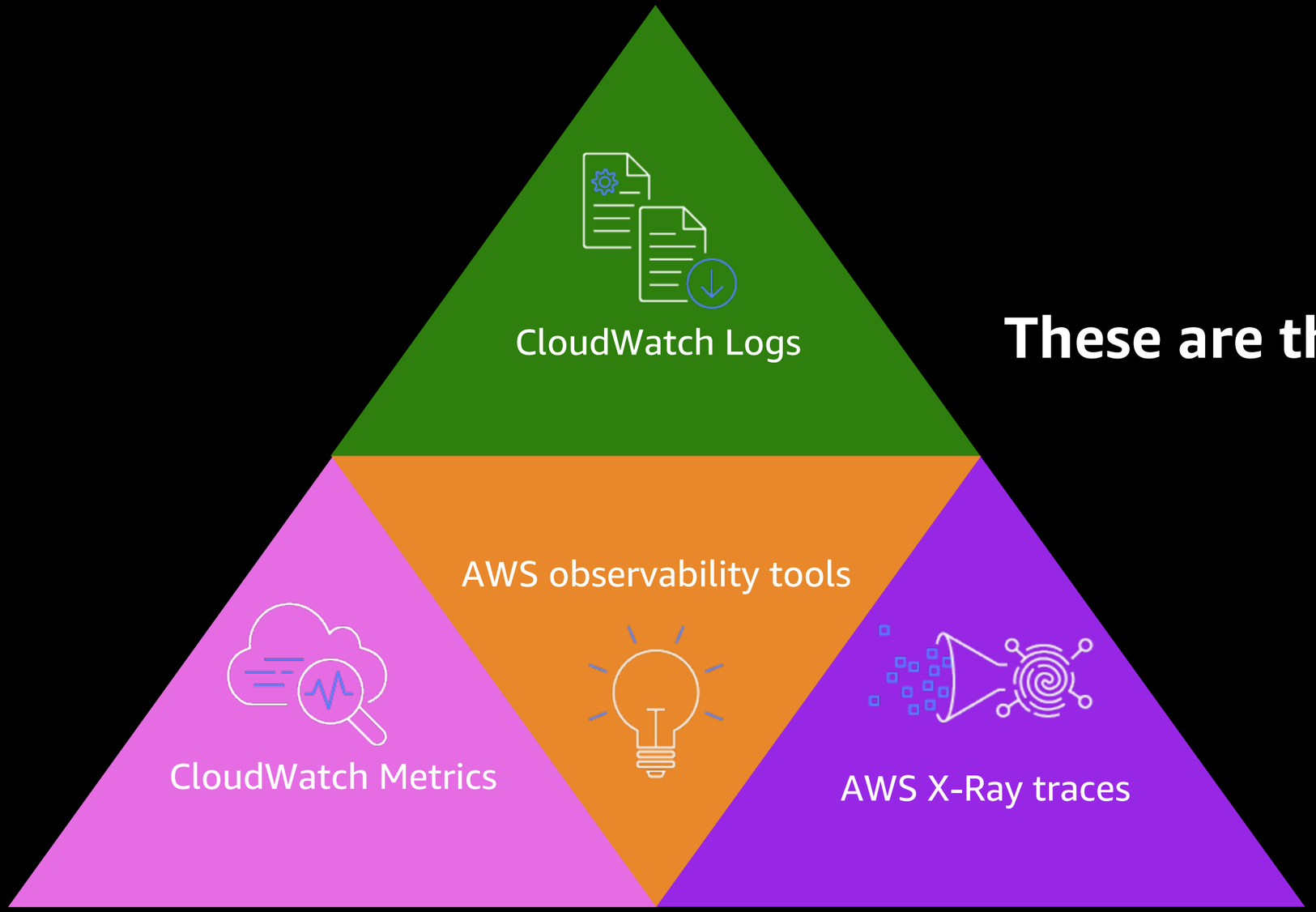


CloudWatch

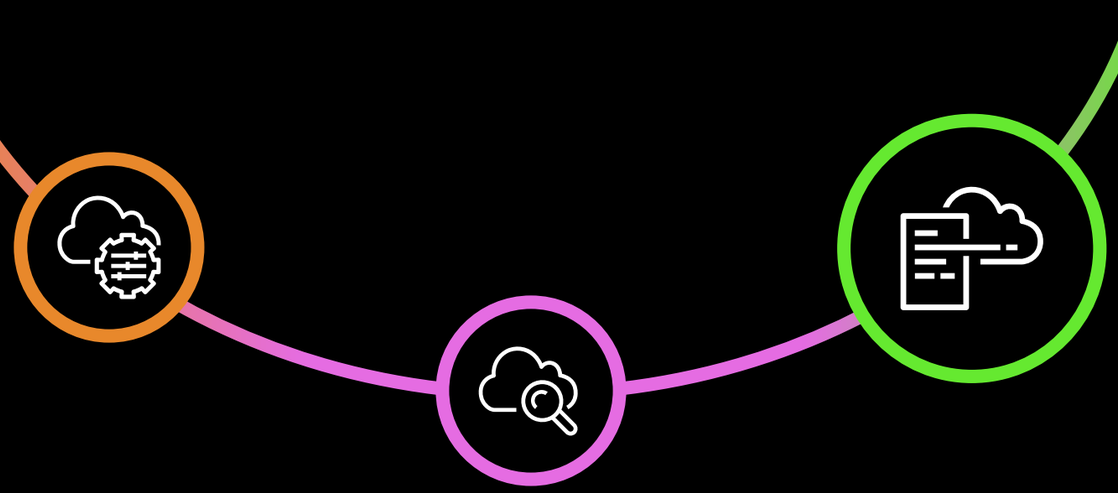
How it works


CloudWatch
Complete visibility into your cloud resources and applications
Collect
Metric and logs from all your AWS resources, applications, and services that run on AWS and on-premises servers
Monitor
Visualize applications and infrastructure with CloudWatch dashboards; correlate logs and metrics side by side to troubleshoot and set alerts with CloudWatch Alarms
Act
Automate response to operational changes with CloudWatch Events and AWS Auto Scaling
Analyze
Up to 1-second metrics, extended data retention (15 months), and real-time analysis with CloudWatch Metric Math
Application monitoring
System-wide visibility
Resource optimization
Unified operational health

Observability is the goal

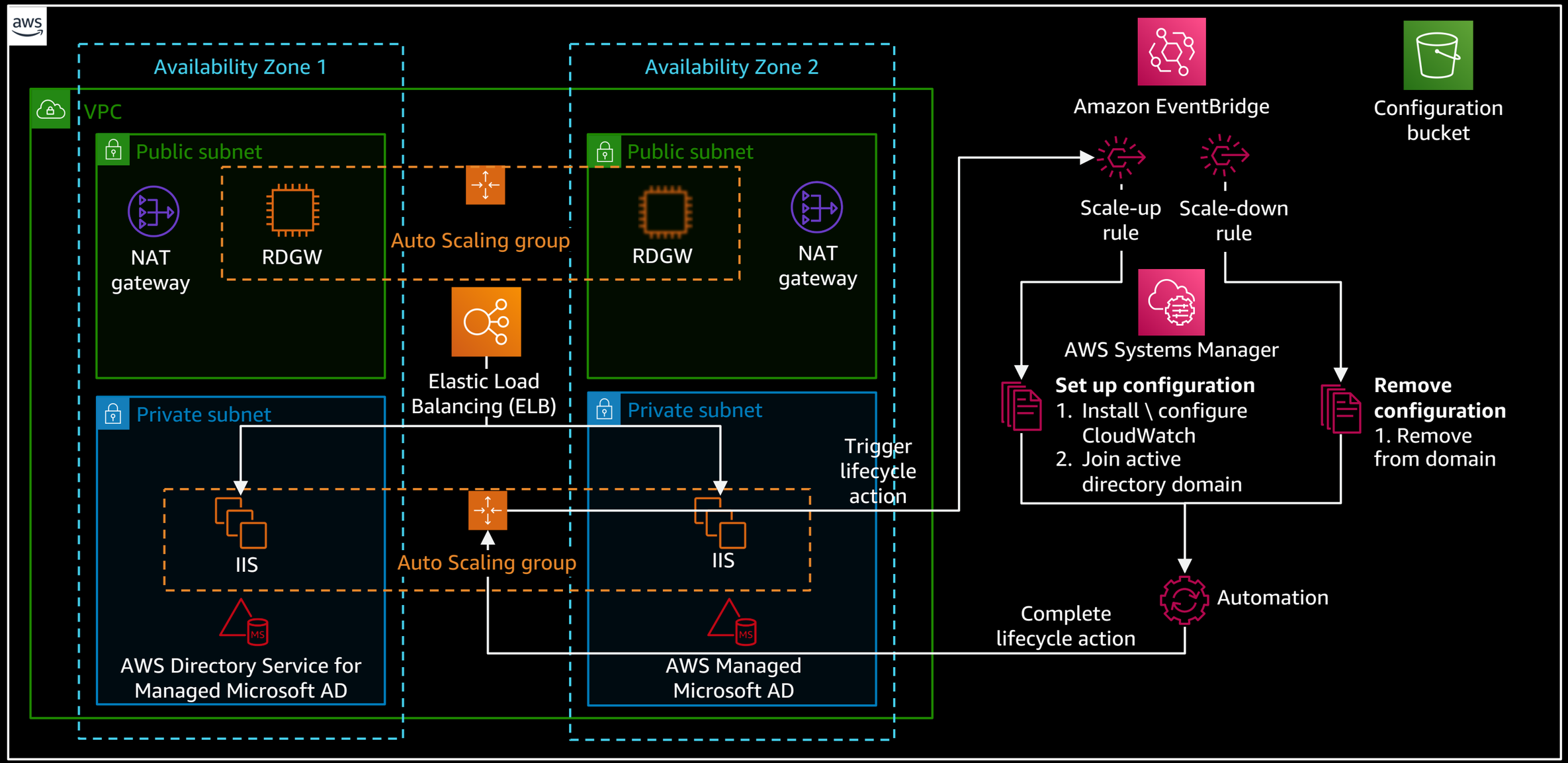


These are the tools



AWS CloudFormation

Demo environment



AWS Quick Starts

Automated, gold-standard deployments in the AWS Cloud

Quick Starts are built by Amazon Web Services (AWS) solutions architects and partners to help you deploy popular technologies on AWS, based on AWS best practices for security and high availability. These accelerators reduce hundreds of manual procedures into just a few steps, so you can build your production environment quickly and start using it immediately.

Each Quick Start includes AWS CloudFormation templates that automate the deployment and a guide that discusses the architecture and provides step-by-step deployment instructions.

SEE ALSO

For patterns, techniques, and tips for building Quick Starts and automating AWS Cloud DevOps tasks, see the **Infrastructure & Automation blog**.

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Quick Start

SQL Server

MICROSOFT

Quick Start

FSx

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Quick Start

Exchange

AWS Config



Continuous monitoring



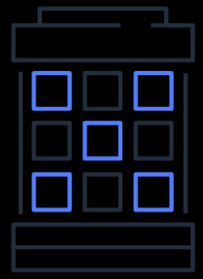
Continuous assessment



Change management



Operational troubleshooting



Enterprise-wide compliance monitoring, including third-party resources

Links

https://github.com/aws-quickstart/quickstart-microsoft-iis

https://github.com/aws-samples/aws-systems-manager-cloudformation-samples

https://workshop.aws-management.tools/

https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/appinsights-tutorial-dotnet-sql.html

https://github.com/aws-samples/application-insights-sample-application

Thank you!



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