

# AWS Systems Manager

# Agenda

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- ▶ Benefits of Systems Manager
- ▶ Features
- ▶ Working of Systems Manager
- ▶ Use Cases & Best Practices
- ▶ Demo & Lab

# What is Systems Manager

- ▶ AWS Systems Manager gives visibility and control of infrastructure on AWS.
- ▶ Systems Manager provides a unified user interface to view operational data from multiple AWS services and allows to automate operational tasks across your AWS resources.
- ▶ Group resources, like Amazon EC2 instances, Amazon S3 buckets, or Amazon RDS instances, by application, view operational data for monitoring and troubleshooting, and take action on your groups of resources.
- ▶ Systems Manager simplifies resource and application management, shortens the time to detect and resolve operational problems, and makes it easy to operate and manage your infrastructure securely at scale.

# Benefits of Systems Manager

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- ▶ Quickly Detect Problems
- ▶ Easy to use Automation
- ▶ Improves Visibility & Control
- ▶ Manage Hybrid Environments
- ▶ Improve Security & Compliance

# Features

- ▶ Resource Groups
- ▶ Insights
- ▶ Actions
- ▶ Shared Resources

# Working of Systems Manager

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## Group resources

Create groups of resources across different AWS services, such as for applications or different layers of an application stack



## Visualize data

View aggregated operational data by resource group



## Take action

Respond to insights and automate operational actions across resource groups

# Use Cases & Best Practices

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## Automation :

- ▶ Create self-service runbooks for infrastructure as Automation documents.
- ▶ Use Automation to simplify creating AMIs from the AWS Marketplace or custom AMIs, using public SSM documents or by authoring your own workflows.
- ▶ Use the AWS-UpdateLinuxAmi and AWS-UpdateWindowsAmi Automation documents (or create custom Automation documents) to build and maintain AMIs.

# Use Cases & Best Practices

## Inventory :

Use Systems Manager Inventory with AWS Config to audit your application configurations over time.

## Maintenance Windows:

Define a schedule to perform potentially disruptive actions on your instances such as OS patching, driver updates, or software installations.

## Parameter Store :

Use Parameter Store to centrally manage global configuration settings.



# Use Cases & Best Practices

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## ► Patch Manager

Use patch manager to rollout patches at scale and increase fleet compliance visibility across your instances.

## Run Command

Manage Instances at Scale without SSH Access Using EC2 Run Command.

## State Manager:

- Update the SSM Agent at least once a month using the pre-configured AWS-UpdateSSMAgent document.
- Bootstrap EC2 Instances on launch using EC2Config for Windows

# Demo & LAB

# THANK YOU