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100 Days of AWS — Day 20- AWS System Manager — Part 1

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Welcome to Day 20 of 100 Days of AWS. The topic for today is AWS System Manager — Part 1.

What Is AWS Systems Manager?

AWS Systems Manager is a collection of capabilities for configuring and managing your Amazon EC2 instances, on-premise servers and virtual machines, and other AWS resources at scale.

In order to setup AWS System Manager these are the steps you need to follow

1. *Setting up IAM Role for System Manager*

https://us-east-1.console.aws.amazon.com/iam/home#/roles => *Roles => Create role*

Select an AWS service and under Common use cases select EC2. Click on Next

- *Under Permissions policies search for AmazonEC2RoleforSSM and AmazonS3ReadOnlyAccess click on Next*

2. Go to EC2 console https://us-east-2.console.aws.amazon.com/ec2/ , under Actions, select Security and Modify IAM role

- *Choose the IAM Role, you have create in previous step and click on Save.*

3. For this purpose of this demo, I am using Amazon Linux 2, which has amazon ssm rpm already installed.

```
$ cat /etc/os-release

NAME="Amazon Linux"

VERSION="2"
```

- *To verify it*

```
$ rpm -qa|grep -i ssm

amazon-ssm-agent-3.1.138.0-1.amzn2.x86_64
```

- *In order to install the agent on Centos/RedHat run the below command*

```
sudo yum install -y https://s3.amazonaws.com/ec2-downloads-windows/SSMAgent/latest/linux_amd64/amazon-ssm-agent.rpm
```

- *Once System Manager is installed https://us-east-2.console.aws.amazon.com/systems-manager/ => Node Management -> Fleet Manager, you will see the managed instance*

- *Under Node Management -> Run Command -> Run a Command*

- *Under Run a command, select AWS-RunShellScript, under Commands (lx 1) and under Choose Instances Manually. Click on Run*

- *If the command is executed successfully, you will see the Overall status as Success.*

- *Click on the instance and check the output*

- *You can execute the same command via AWS cli*

```
$ aws ssm send-command --document-name "AWS-RunShellScript" --parameters commands="ls -l" --targets "Key=instanceIds,Values=<instance-id>"
```

AWS Systems Manager Inventory

AWS Systems Manager Inventory provides visibility into your Amazon EC2 and on-premises computing environment. You can use Inventory to collect metadata from your managed instances. You can store this metadata in a central Amazon Simple Storage Service (Amazon S3) bucket, and then use built-in tools to query the data and quickly determine which instances are running the software and configurations required by your software policy, and which instances need to be updated.

- *In the next lab*
- *Give you inventory some name*
  - *Targets: Either Manually select the instance or better to use Tag so that all the future installed instance will be tracked automatically*
  - *Schedule: How frequently you want to collect Inventory*
  - *Parameter: Different Parameter you want to collect*

Click on Setup Inventory at the bottom of the page.

- *After waiting for few min, you will see something like this*

In this blog we have explored two features of System Manager. It provides lots of other features which we explore in the next part of this blog.

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