

AWS:Start

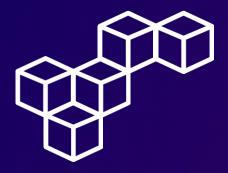
Using AWS Systems Manager



WEEK 8







Overview

AWS Systems Manager is a collection of capabilities that you can use to centralize operational data and automate tasks across your Amazon Web Services (AWS) resources. Systems Manager can configure and manage Amazon Elastic Compute Cloud (Amazon EC2) instances, on-premises servers, virtual machines, and other AWS resources at scale.

AWS Systems Manager is a comprehensive management service that enables you to automate operational tasks across your AWS resources. It ensures your configurations and permissions are correct and compliant, facilitates running tasks on multiple servers simultaneously, and streamlines the process of updating application settings or configurations. With Systems Manager, you can also securely access the command line of instances without needing direct SSH access, enhancing both security and efficiency in managing and maintaining your AWS infrastructure. This powerful service simplifies complex management tasks, ensuring your applications run smoothly and securely across your cloud environment.

Topics covered

- Verify configurations and permissions.
- Run tasks on multiple servers.
- Update application settings or configurations.
- Access the command line on an instance.





Generate inventory lists for managed instances

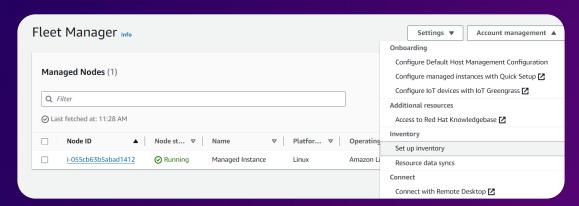
Step 1: Access the Systems Manager

Open the AWS Management Console, and select Systems Manager.



Step 2: Set up inventory

Navigate to the **Fleet Manager** section, choose the **Account management** dropdown list, and choose Set up inventory.



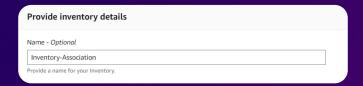




Generate inventory lists for managed instances

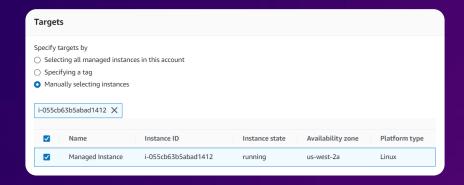
Step 3: Provide inventory details

In the **Provide inventory details** section, for **Name**, enter Inventory-Association.

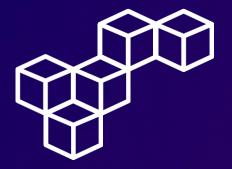


Step 4: Targets

In the **Targets** section, for **Specify targets by**, choose Manually selecting instances, and select the row for Managed Instance.



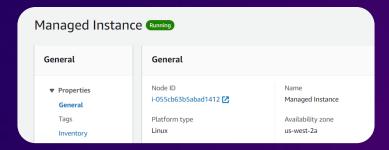




Generate inventory lists for managed instances

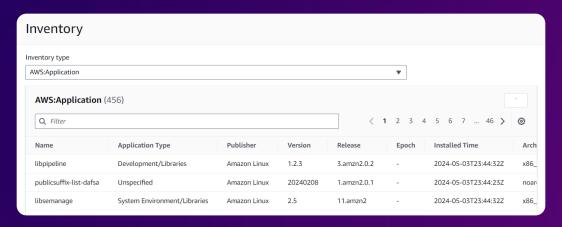
Step 5: Node Overview

Choose the **Node ID** link, which directs you to the **Node overview**, and choose the Inventory tab.

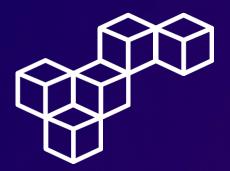


Step 6: Review Inventory

The **Inventory** tab lists all of the applications in the instance. Review the installed applications and other options.



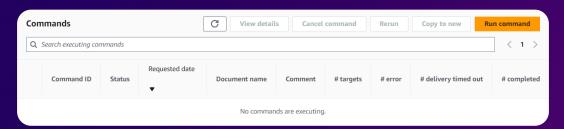




Install a Custom Application using Run Command

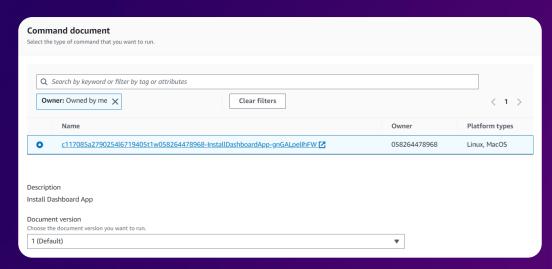
Step 1: Run command

Navigate to the Run Command section, and select Run command.

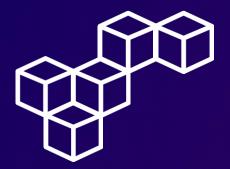


Step 2: Command document

In the **Command document** section, choose the following options.



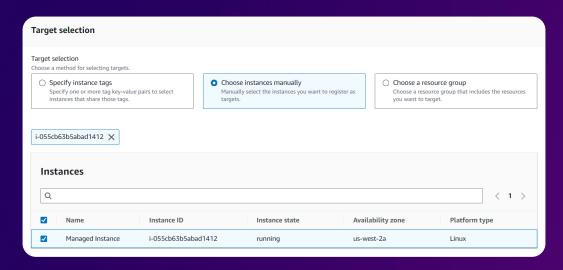




Install a Custom Application using Run Command

Step 3: Target selection

In the **Target selection** section, select Choose instances manually, and select the row for Managed Instance.



Step 4: Output options

In the **Output options** section, clear Enable an S3 bucket.



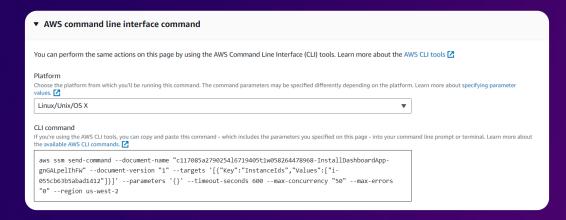




Install a Custom Application using Run Command

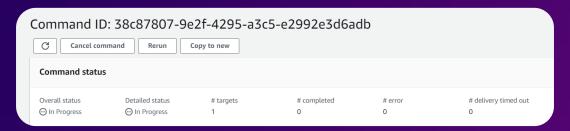
Step 5: AWS command line interface command

This section displays the command line interface (CLI) command that initiates Run Command.



Step 6: The Command ID page

After you choose Run, the Command ID page will display the **Command status** as In Progress.



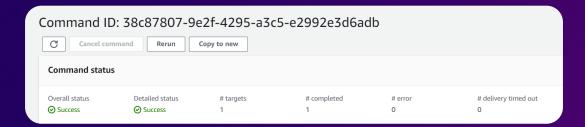




Install a Custom Application using Run Command

Step 7: Review Command status

After a moment, the Command status will change to Success.



Step 8: Validate Application installation

Validate that the custom application was installed. The Widget Manufacturing Dashboard that you installed appears.







Use Parameter Store to manage application settings

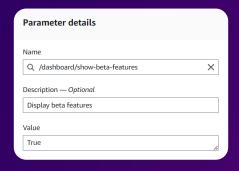
Step 1: Create parameter

Navigate to the **Parameter Store** section and select Create parameter.

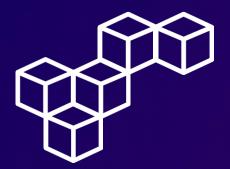


Step 2: Parameter details

In the Parameter details section, choose the following options.



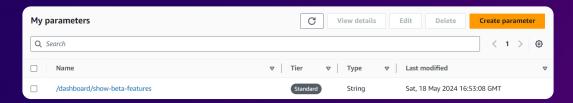




Use Parameter Store to manage application settings

Step 3: Review parameters

In the My parameters section, review parameter creation.



Step 4: Review additional application features

Notice that three charts are displayed. The application is now checking Parameter Store to determine whether the additional chart (which is still in beta) should be displayed.



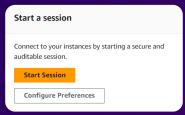




Use Session Manager to access instances

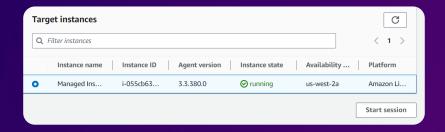
Step 1: Start Session

Navigate to the **Session Manager** section and select **Start** Session.

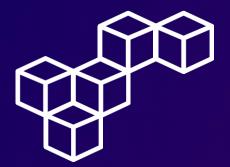


Step 2: Target instances

In the **Target instances** section, select Managed Instance and choose Start session.







Use Session Manager to access instances

Step 3: List application files

Run the following command to list the application files that were installed on the instance.

```
sh-4.2$ ls /var/www/html
Aws JmesPath Psr css info.php
CHANGELOG.md LICENSE.md README.md get-parameters.php make_zip.sh
GuzzleHttp NOTICE.md aws-autoloader.php index.php style.css
```

Step 4: List EC2 instance details

Run the following command to list the EC2 instance details for the **Managed Instance** in JSON format.



Systems Manager

Systems Manager streamlines AWS resource management by automating operational tasks and enhancing security.

Fleet Manager

Fleet Manager simplifies the centralized management and monitoring of your servers, both on-premises and in the cloud.

Inventory

Inventory provides detailed visibility into your AWS resource configurations, aiding compliance and auditing.

Run Command

Run Command enables efficient execution of tasks across multiple instances without SSH, simplifying operations.

Parameter Store

Parameter Store securely manages configuration data and secrets, ensuring consistent application settings.

Session Manager

Session Manager offers secure, auditable access to instance command lines without the need for SSH keys.



aws re/start



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