SSM - Node Management – Run Command

## Service Overview

AWS Systems Manager Run Command lets you remotely and securely manage the configuration of your managed instances. A managed instance is any EC2 instance or on-premises machine in your hybrid environment that has been configured for Systems Manager. Run Command enables you to automate common administrative tasks and perform one-time configuration changes at scale. You can use Run Command from the AWS Management Console, the AWS Command Line Interface, AWS Tools for Windows PowerShell, or the AWS SDKs. Run Command is offered at no additional cost.

## Use cases / Considerations

Administrators use Run Command to perform the following types of tasks on their managed instances: install or bootstrap applications, build a deployment pipeline, capture log files when an instance is terminated from an Auto Scaling group, and join instances to a Windows domain.

## Governance

* [Monitor command executions using Amazon EventBridge](https://docs.aws.amazon.com/systems-manager/latest/userguide/monitoring-systems-manager-events.html)
* [Monitor command executions using Amazon CloudWatch Logs](https://docs.aws.amazon.com/systems-manager/latest/userguide/sysman-rc-setting-up-cwlogs.html)
* [Restrict Run Command access to specific instances](https://docs.aws.amazon.com/systems-manager/latest/userguide/sysman-rc-setting-up.html#sysman-rc-setting-up-cmdsec)

## Cautions

[Systems Manager service quotas](https://docs.aws.amazon.com/general/latest/gr/ssm.html#limits_ssm)

## Pricing considerations

No additional charges

## More details

* [Setting up Run Command](https://docs.aws.amazon.com/systems-manager/latest/userguide/sysman-rc-setting-up.html)
* [Running commands using Systems Manager Run Command](https://docs.aws.amazon.com/systems-manager/latest/userguide/run-command.html)
* [Handling exit codes with scripts](https://docs.aws.amazon.com/systems-manager/latest/userguide/command-workflow-scripts.html)
* [Understanding command statuses](https://docs.aws.amazon.com/systems-manager/latest/userguide/monitor-commands.html)
* [Run Command walkthroughs](https://docs.aws.amazon.com/systems-manager/latest/userguide/run-command-walkthroughs.html)
* [Troubleshooting Systems Manager Run Command](https://docs.aws.amazon.com/systems-manager/latest/userguide/troubleshooting-remote-commands.html)
* [Remotely Run Commands on an EC2 Instance (hands-on)](https://aws.amazon.com/getting-started/hands-on/remotely-run-commands-ec2-instance-systems-manager/)
* [AWS Systems Manager Run Command (video)](https://www.youtube.com/watch?v=PEwgsoXmud8)
* [AWS Systems Manager RUN Command - Execute Command on EC2 Instance (video)](https://www.youtube.com/watch?v=fw01L5Ski-c)
* [Streamline Configuration Management Automation Using AWS Systems Manager Run Command (video)](https://www.youtube.com/watch?v=sriNozVSj0U)