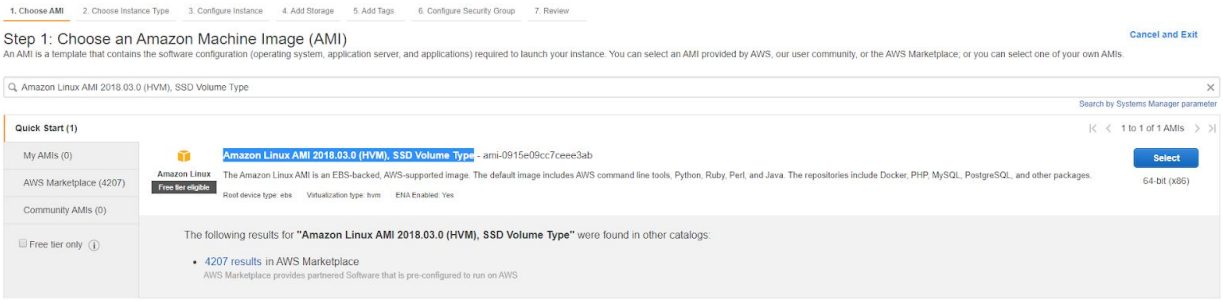
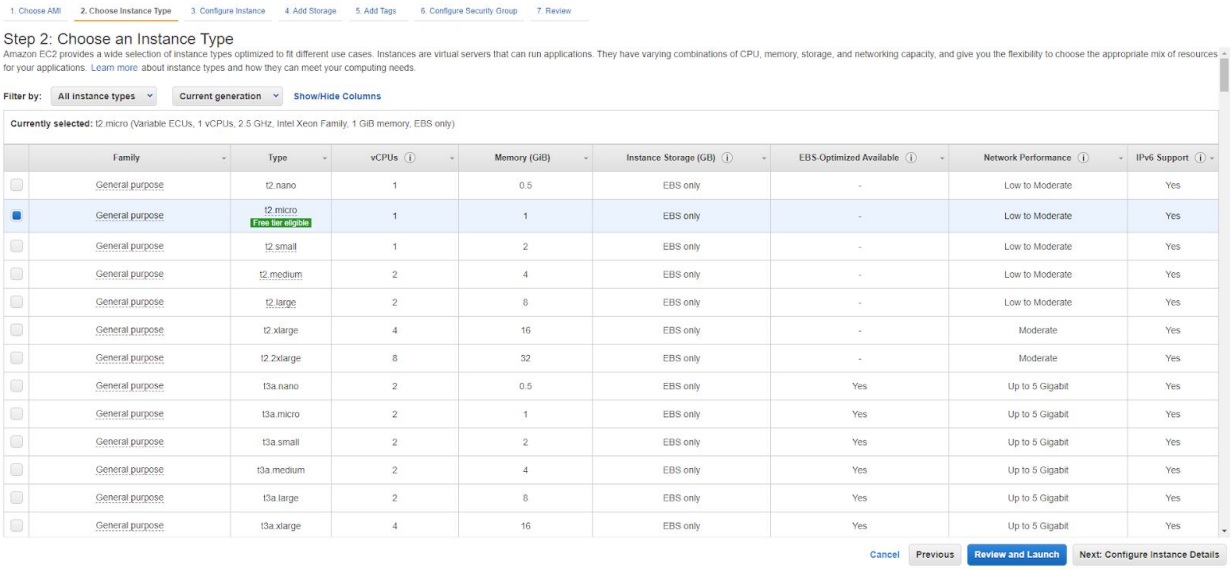
Module 5 Lab 3: System Manager

EC2 Quick Start



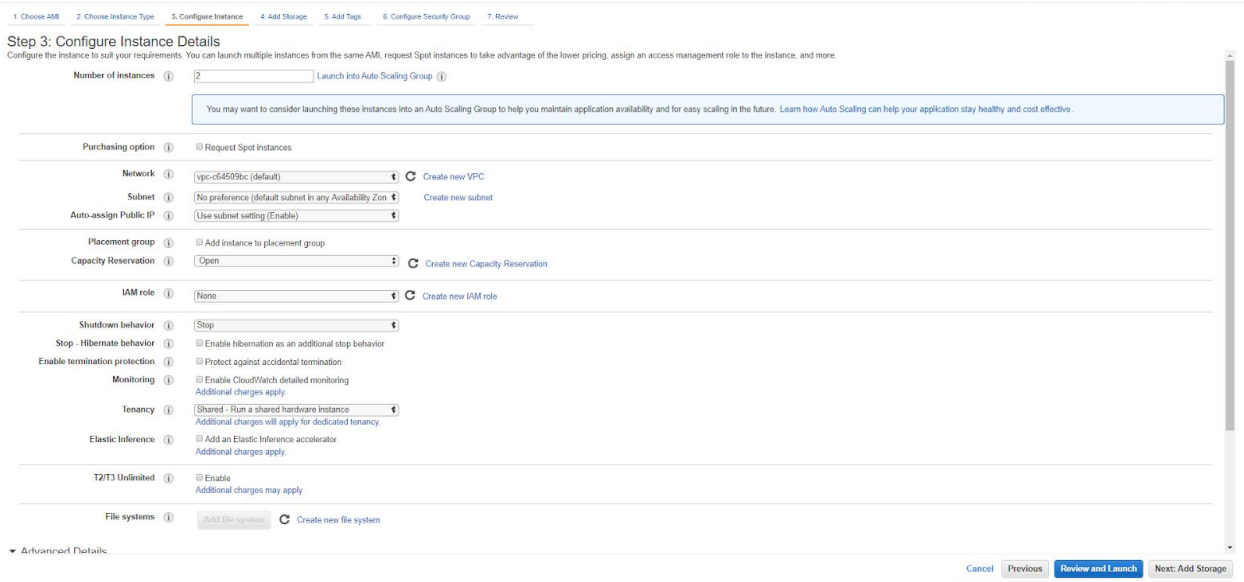
Choosing Amazon Linux AMI: “Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type”.

EC2 Quick Start



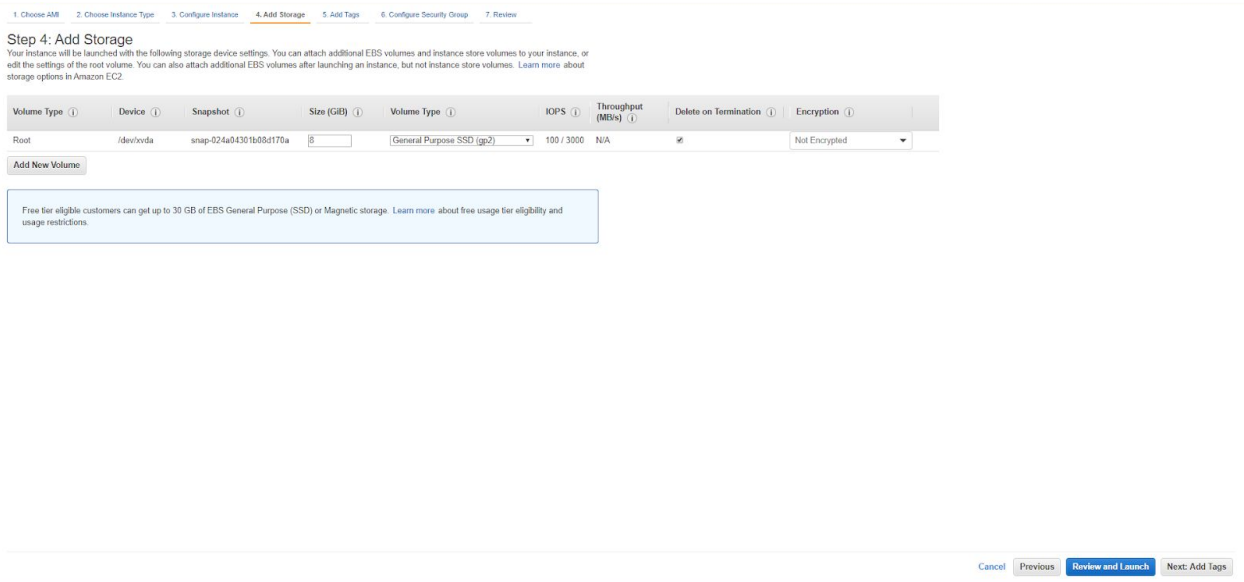
t2.micro instance selected.

EC2 Quick Start



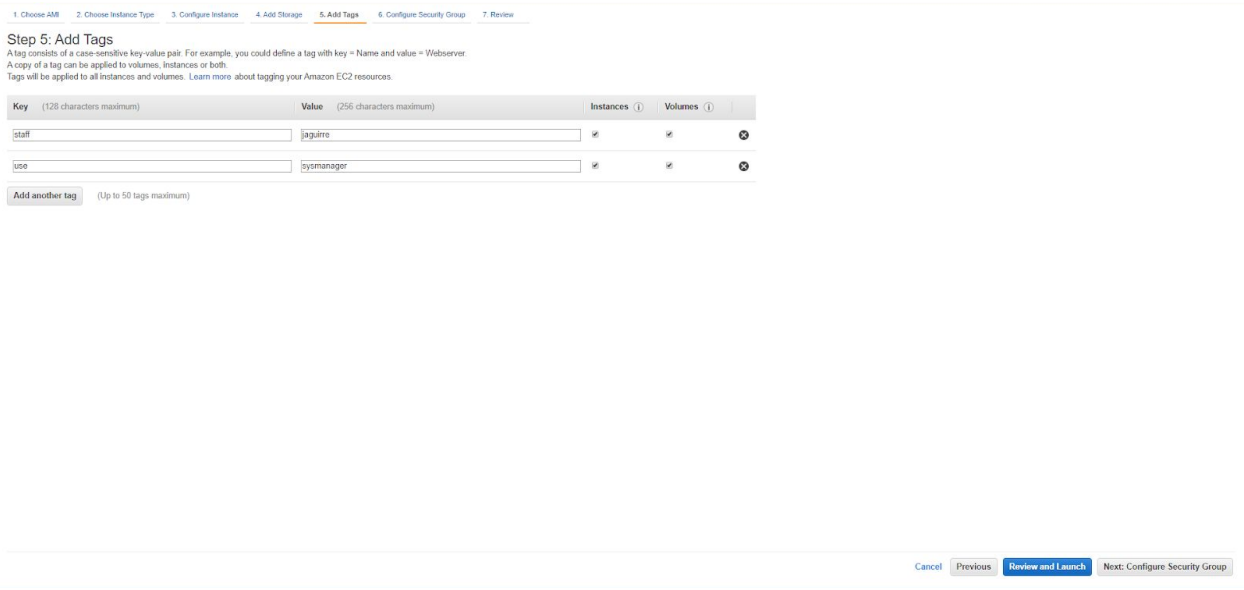
Number of instances is set to 2, all other options default.

EC2 Quick Start



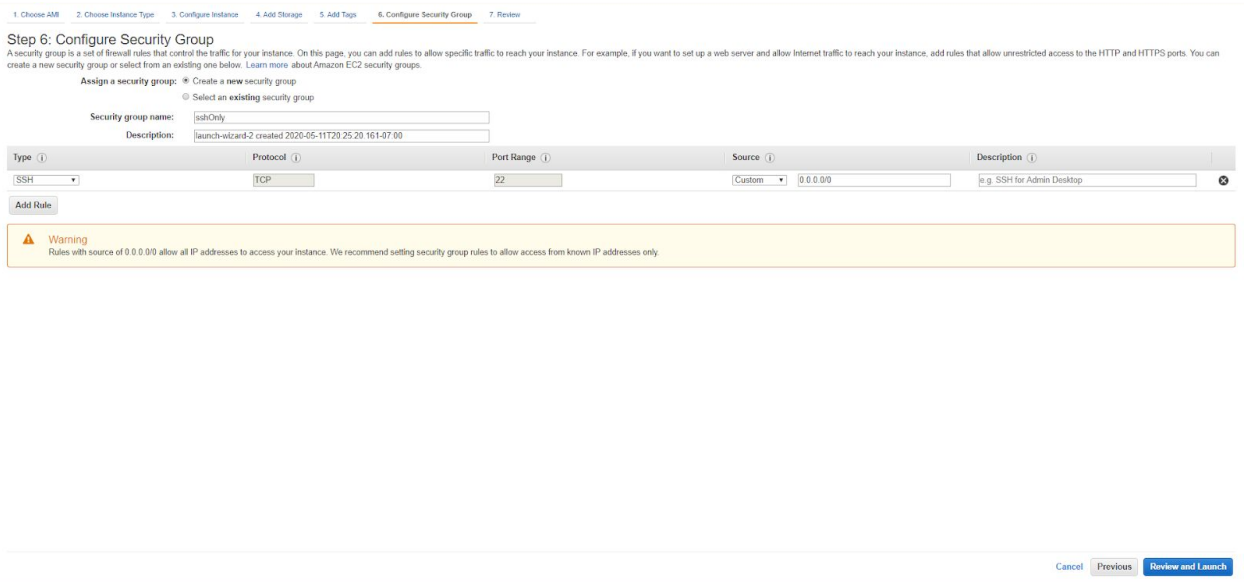
Storage is set to 8gb.

EC2 Quick Start



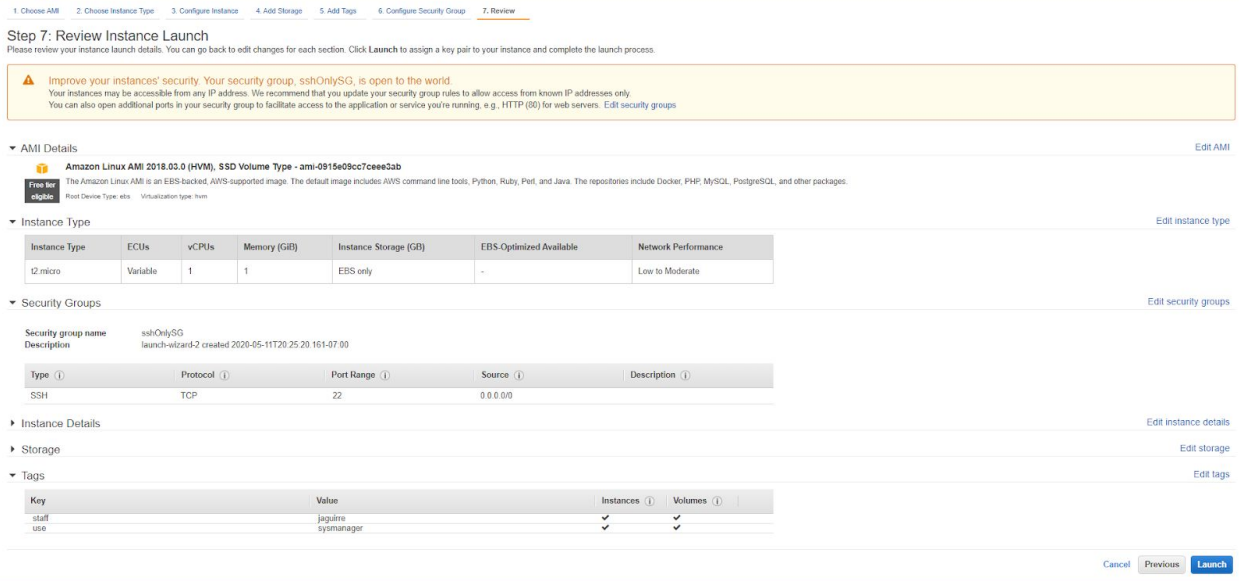
Two tags defined for later use.

EC2 Quick Start



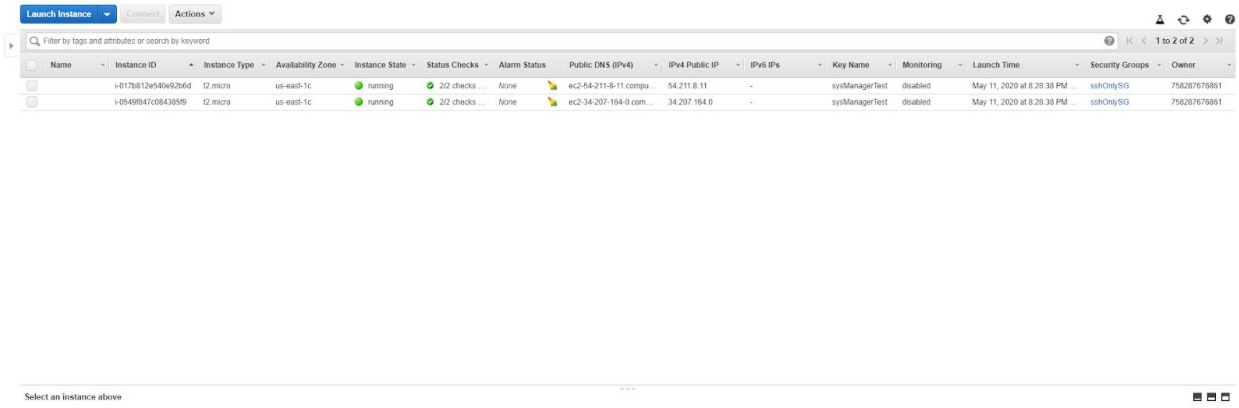
New Security group created.

EC2 Quick Start



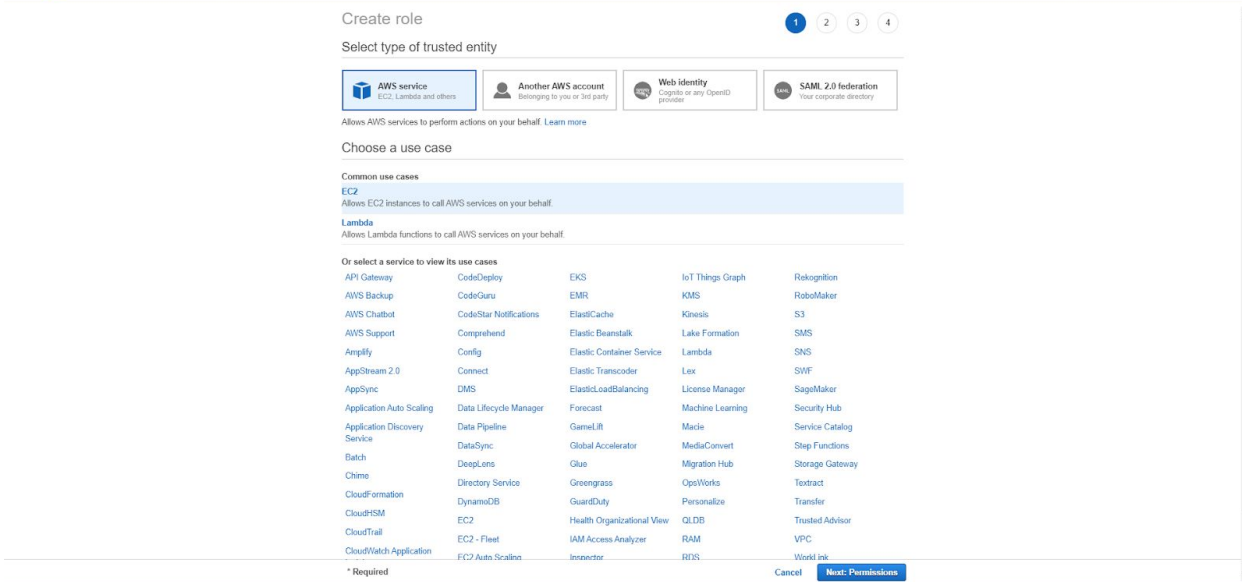
Review page before instance launch. KeyPair downloaded.

EC2 Dashboard



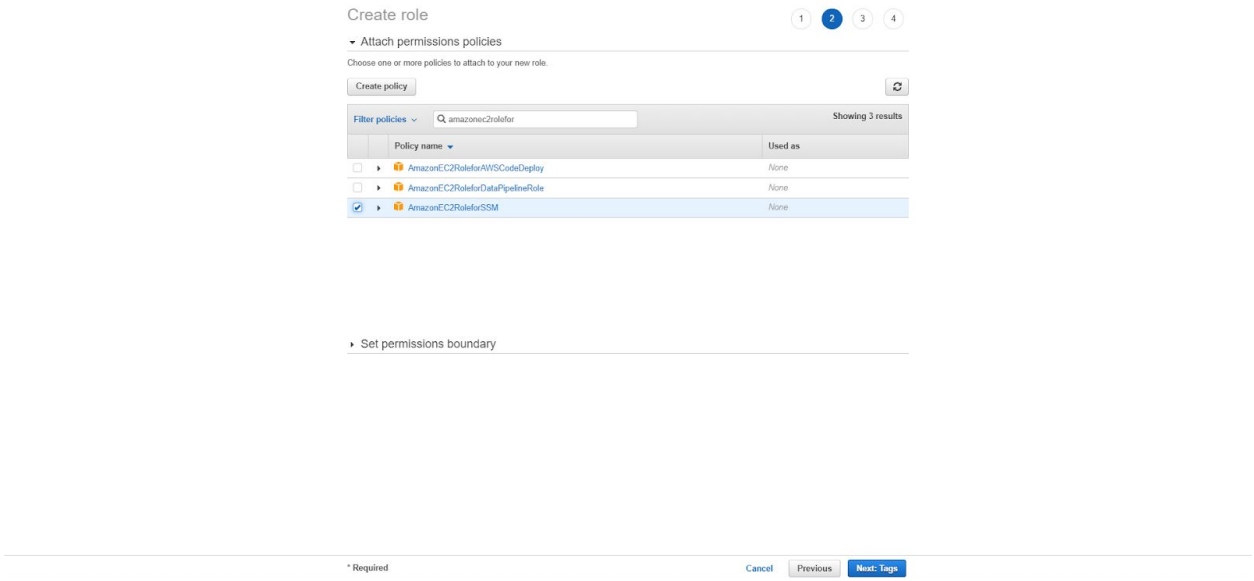
EC2 instances created successfully.

IAM - Create Role



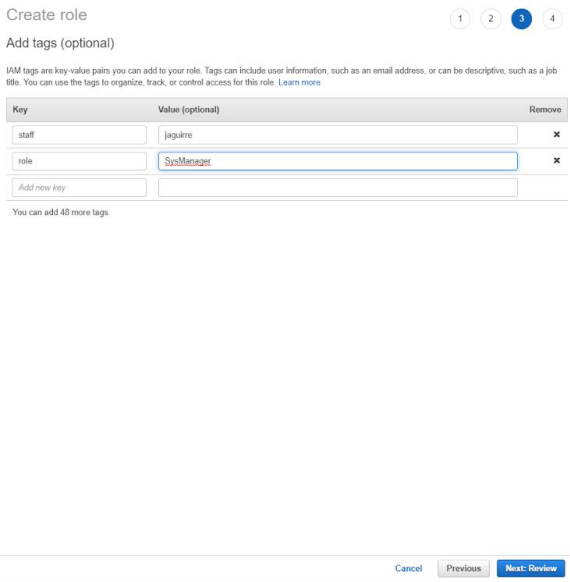
A role must first be established for AWS System Manager to work.

IAM - Create Role



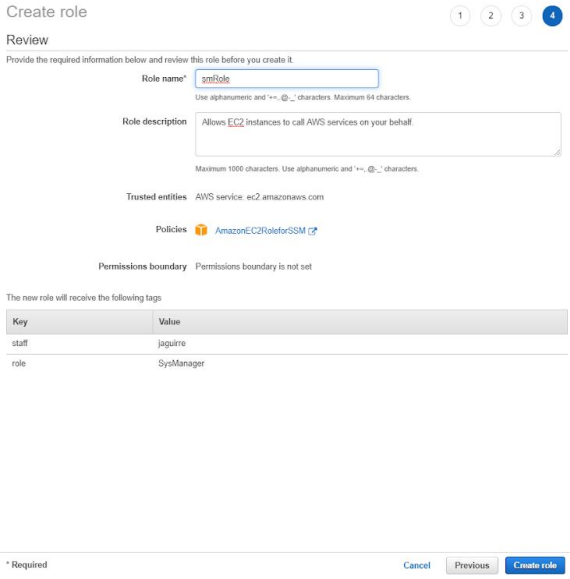
AmazonEC2RoleforSSM is selected.

IAM - Create Role



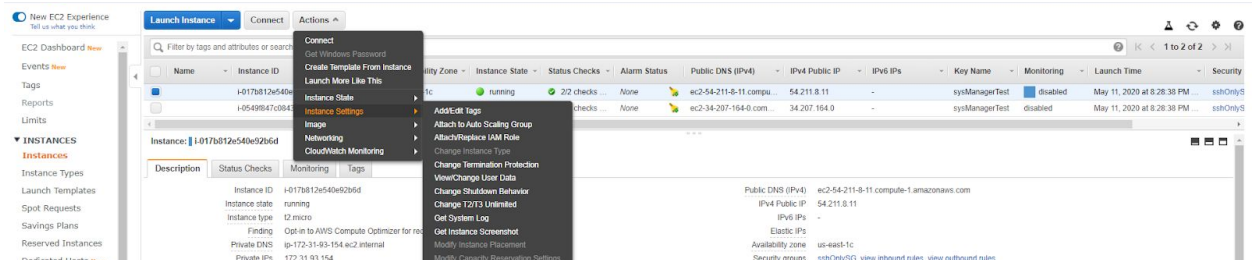
Two tags were established for the IAM role.

IAM - Create Role



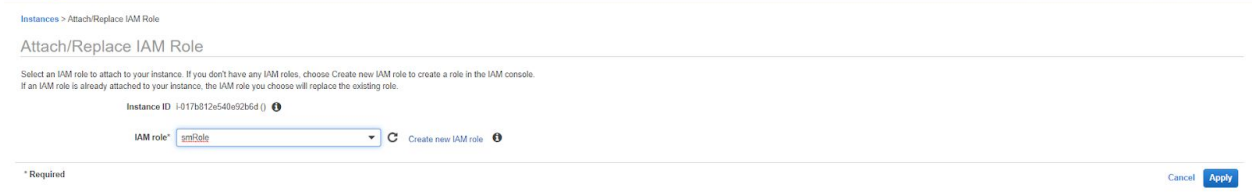
The AWS System Manager role is defined as “smRole”.

EC2 Dashboard



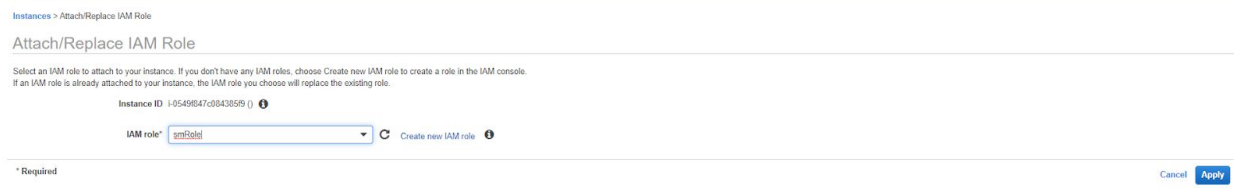
Back in the EC2 Dashboard, “Attach/Replace IAM Role” is selected.

Instances - Attach/Replace IAM Role



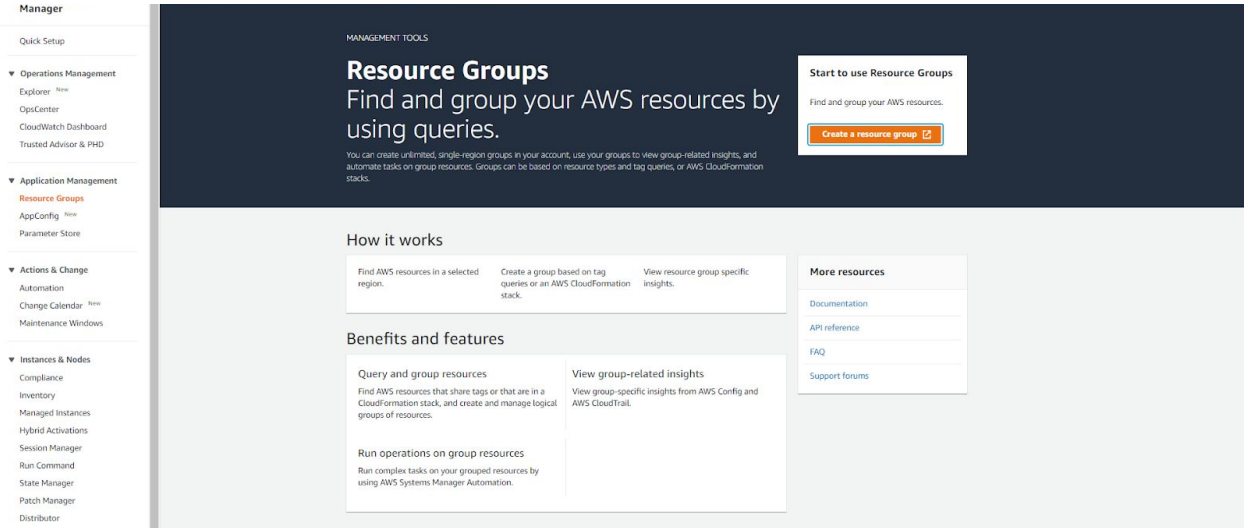
The role options to choose pertain only to EC2 instances.

Instances - Attach/Replace IAM Role



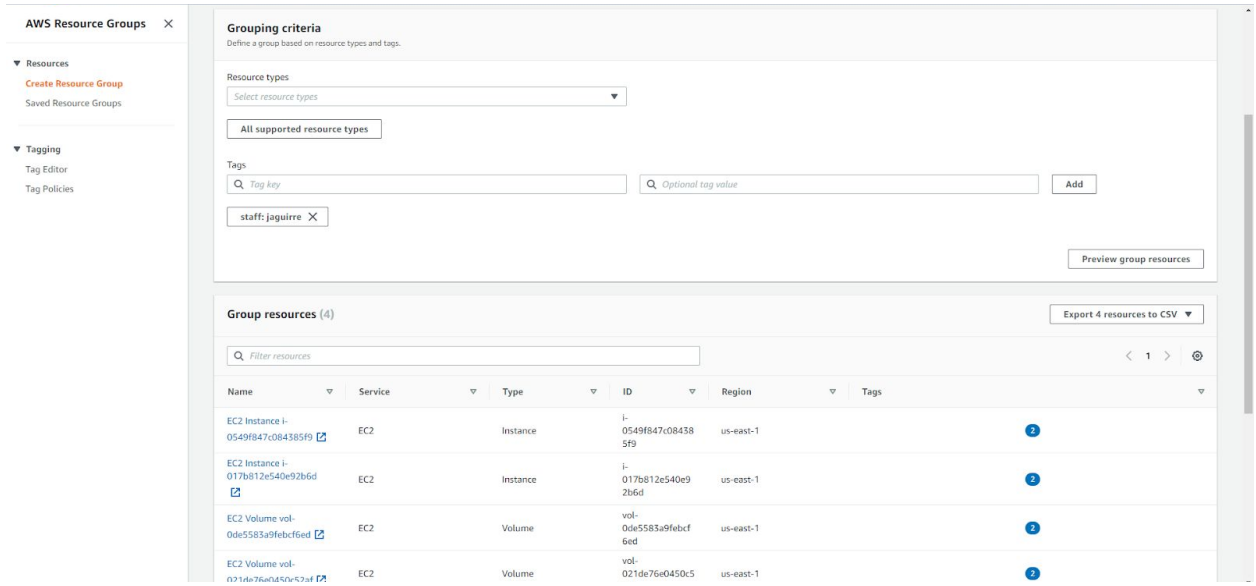
Same Role for the other EC2 instance created.

AWS Systems Manager



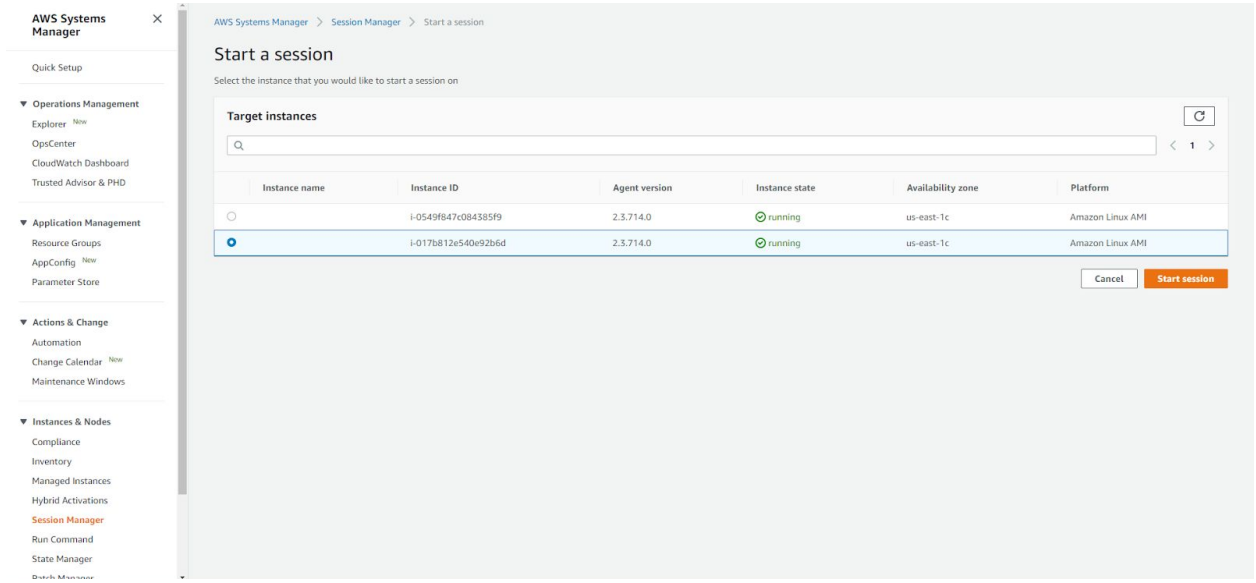
The Resource group will be based on tag queries created earlier.

AWS Resource Groups



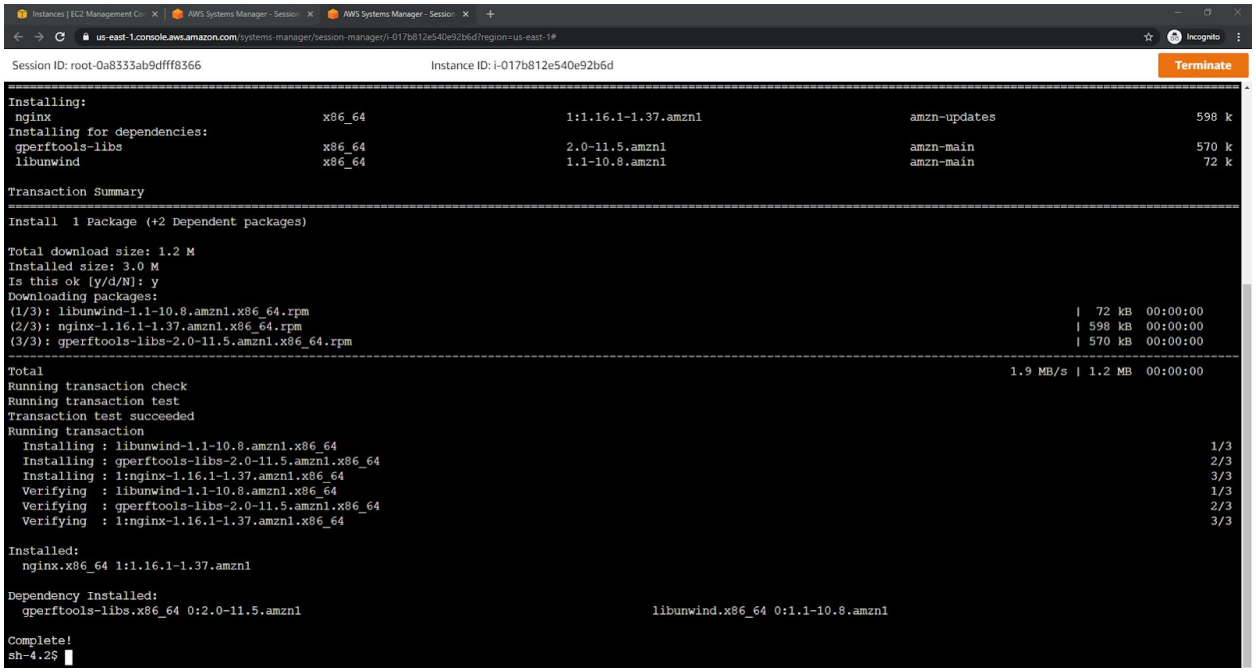
The listed Group resources reference the jaguirre tag.

AWS System Manager - Start a Session



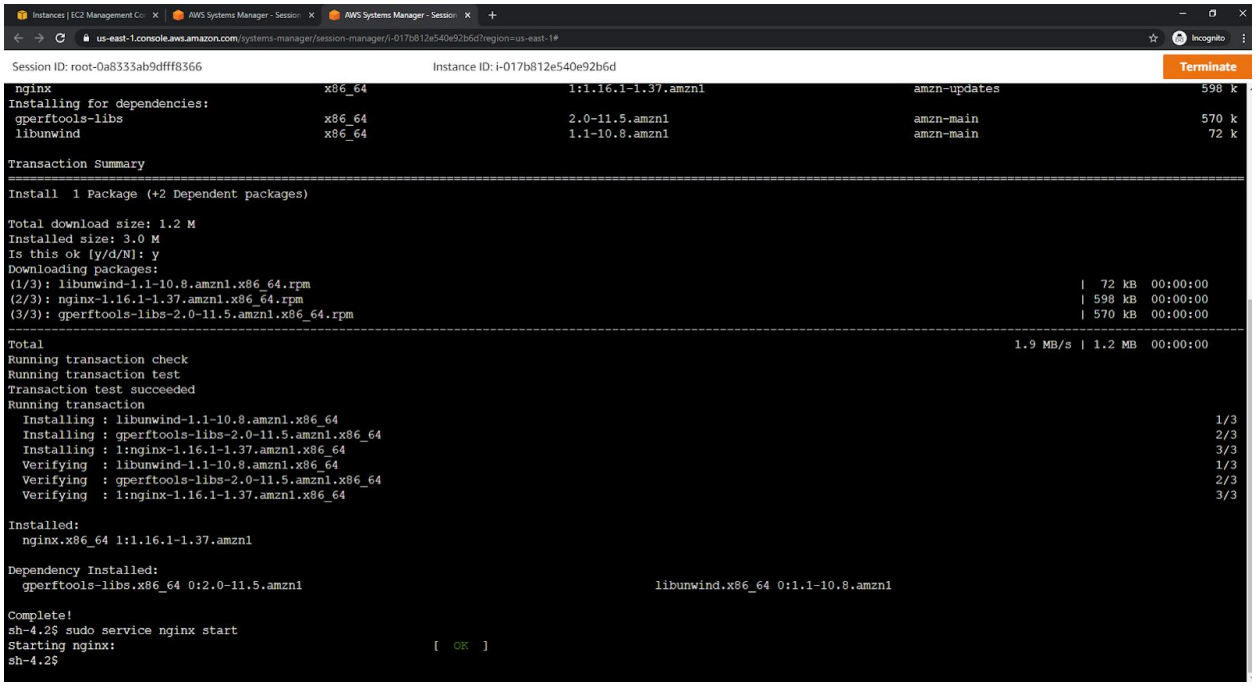
A session can be started on either EC2 instance created.

AWS System Manager - Session



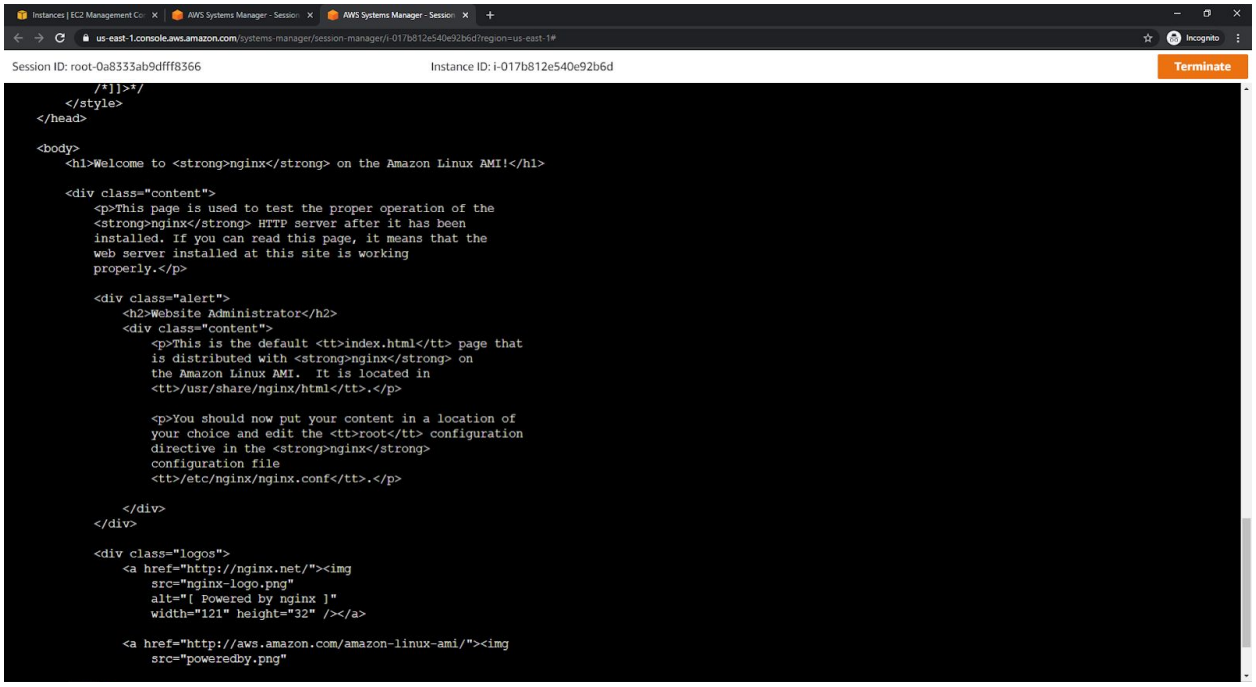
The nginx server install completed successfully.

AWS System Manager - Session



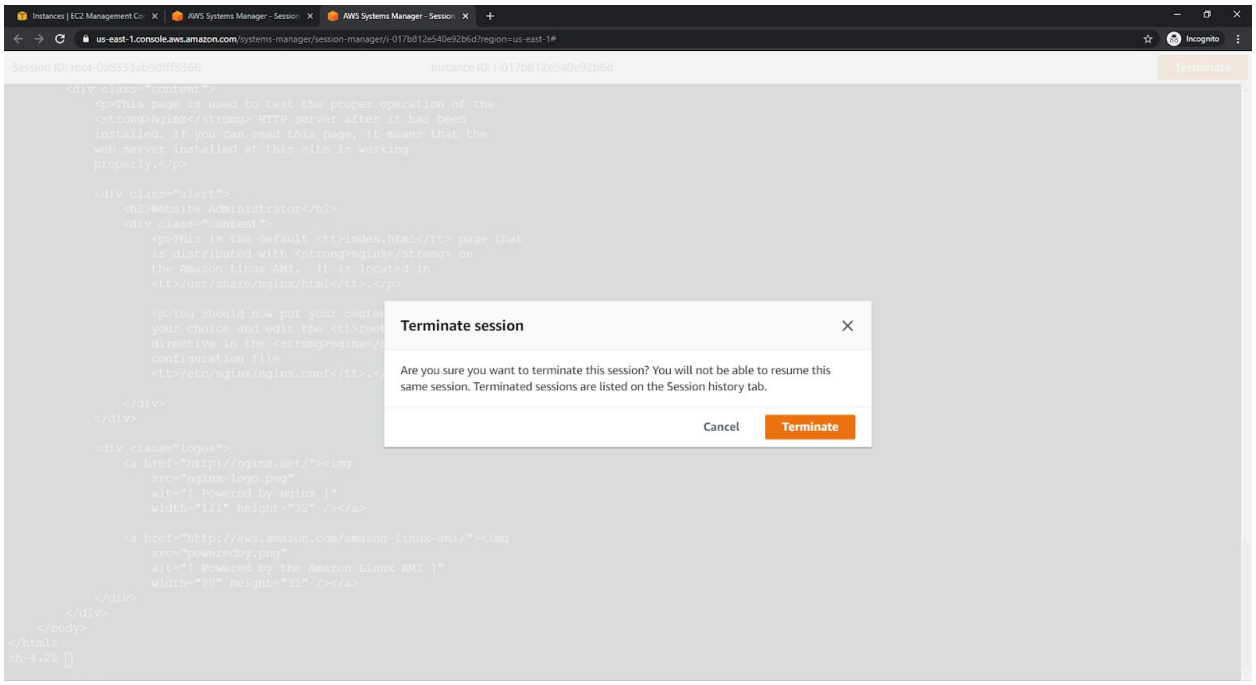
A command issued the start for nginx server.

AWS System Manager - Session



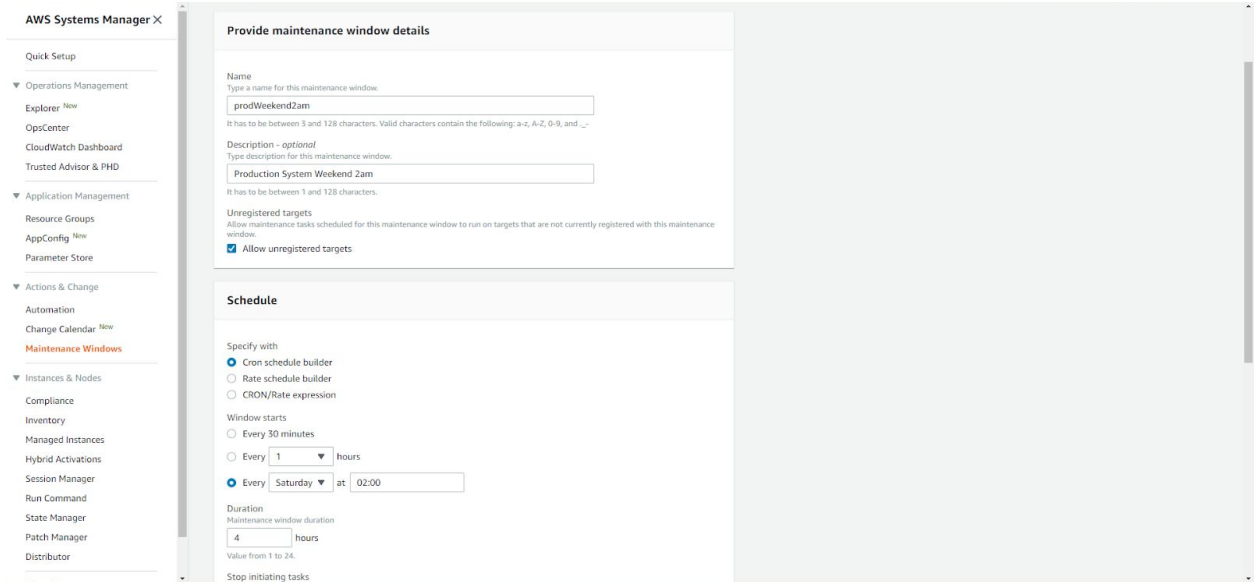
A curl localhost command show's a successfully started nginx server welcome page.

AWS System Manager - Session



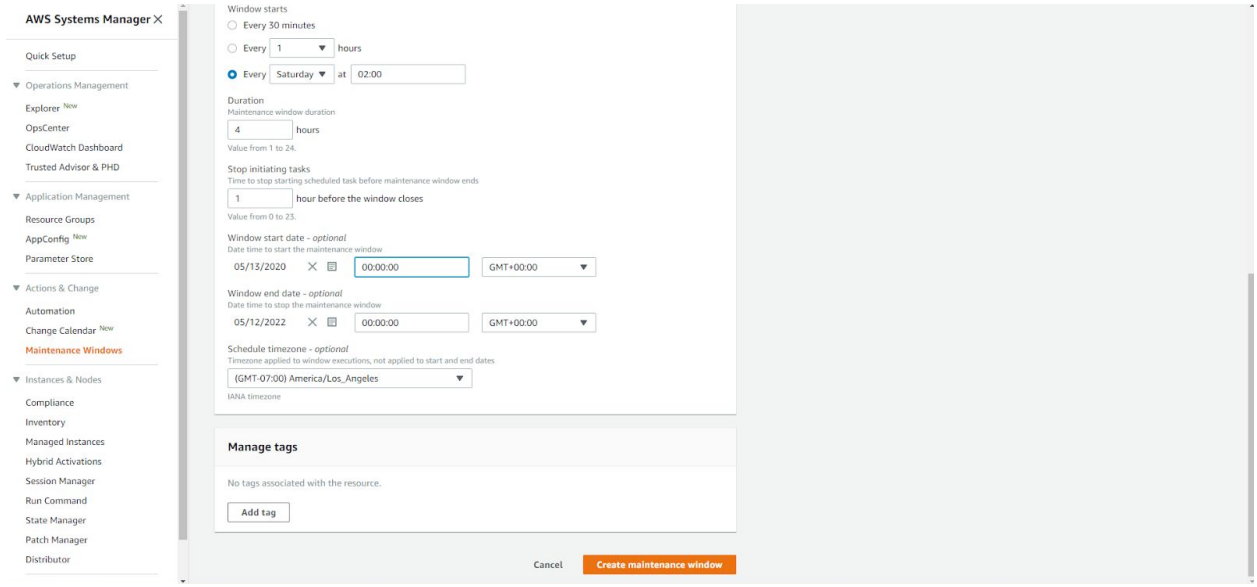
The session was terminated and logged.

AWS Systems Manager - Create Maintenance Window



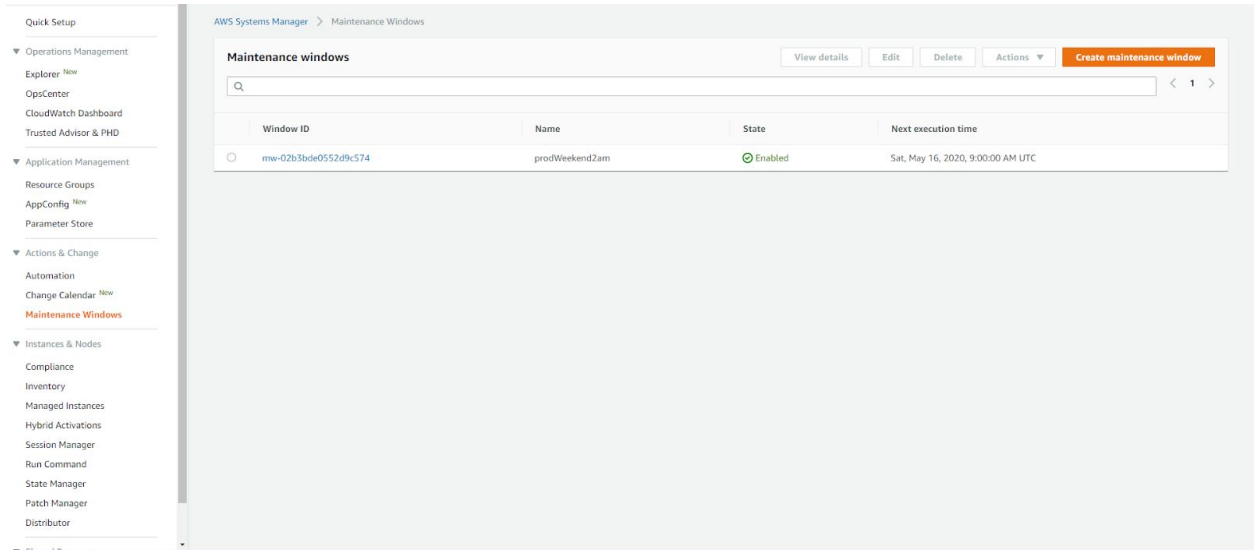
In order to patch a system, a maintenance windows must be created first.

AWS Systems Manager - Create Maintenance Window



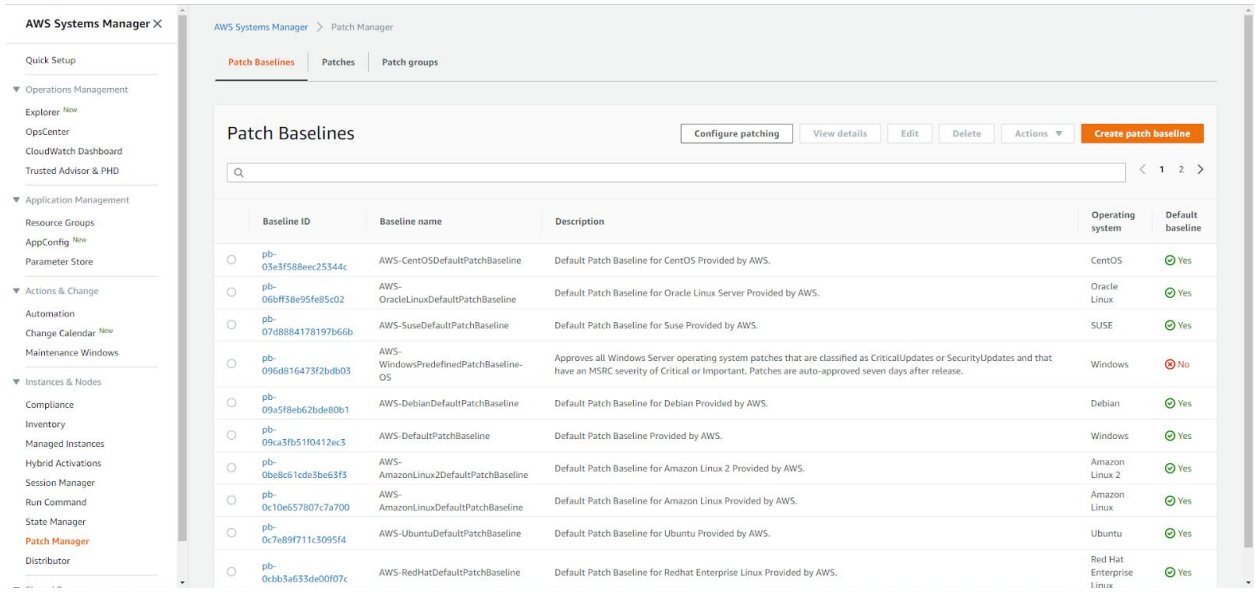
It’s important to set the maintenance window during a low demand time of the day. In this case 2am was selected.

AWS Systems Manager - Maintenance Windows



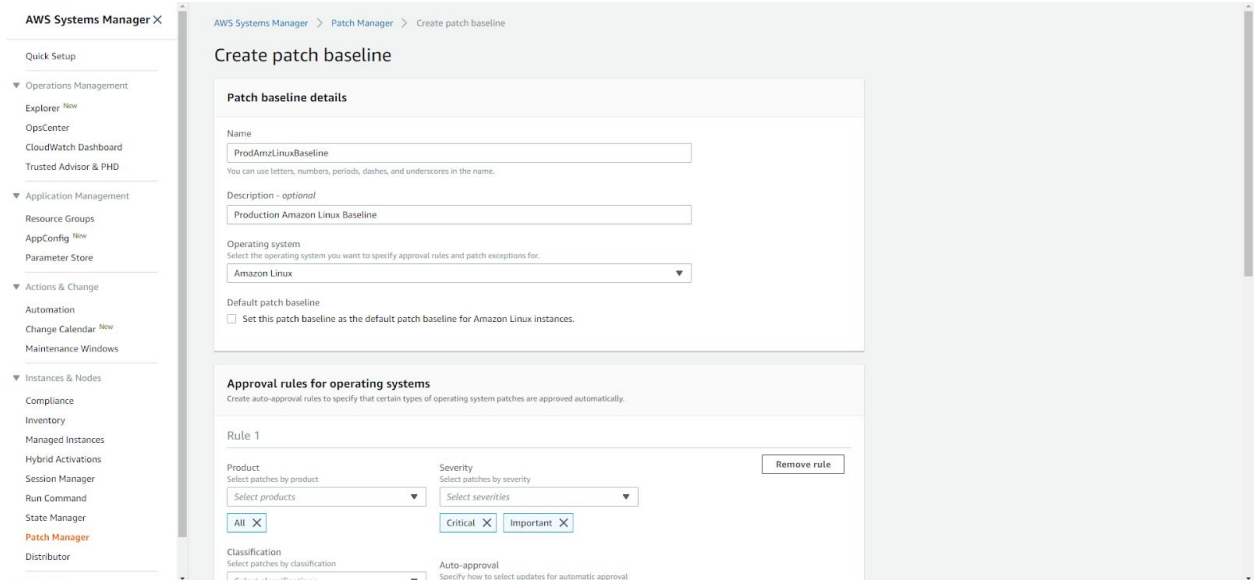
The maintenance window has been established.

AWS Systems Manager - Patch Baselines



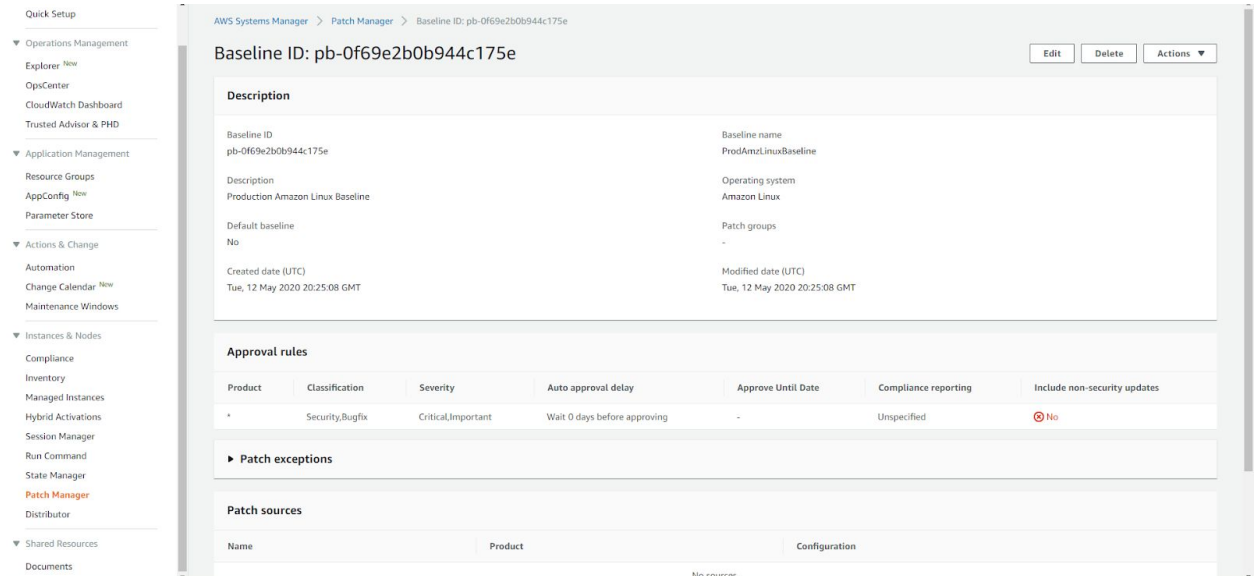
A patchbase line defining which patches are okay to install.

AWS Systems Manager - Create Patch Baselines



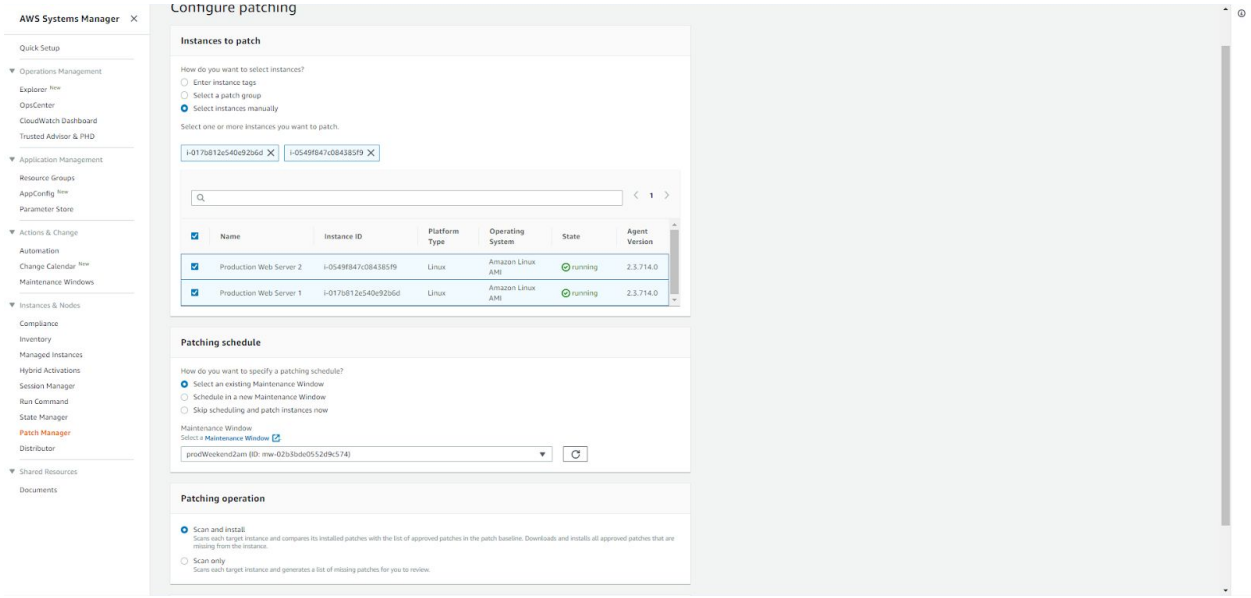
The Patch Baseline rules are defined for the operating system running on the EC2 instance.

AWS Systems Manager



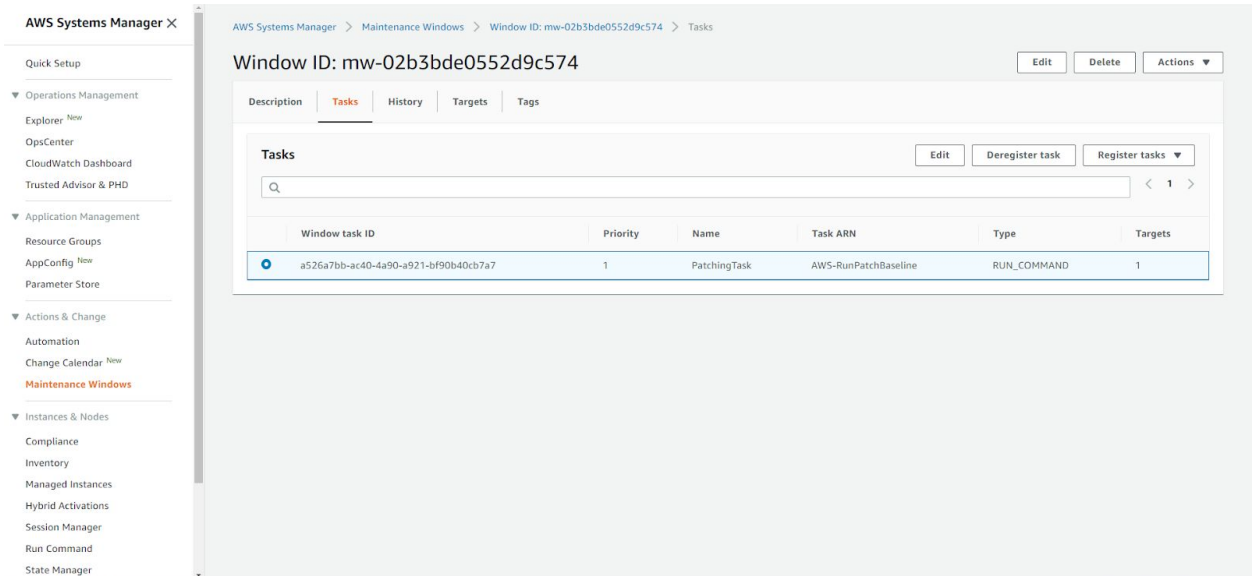
The Baseline has been created.

AWS Systems Manager - Configure Patching



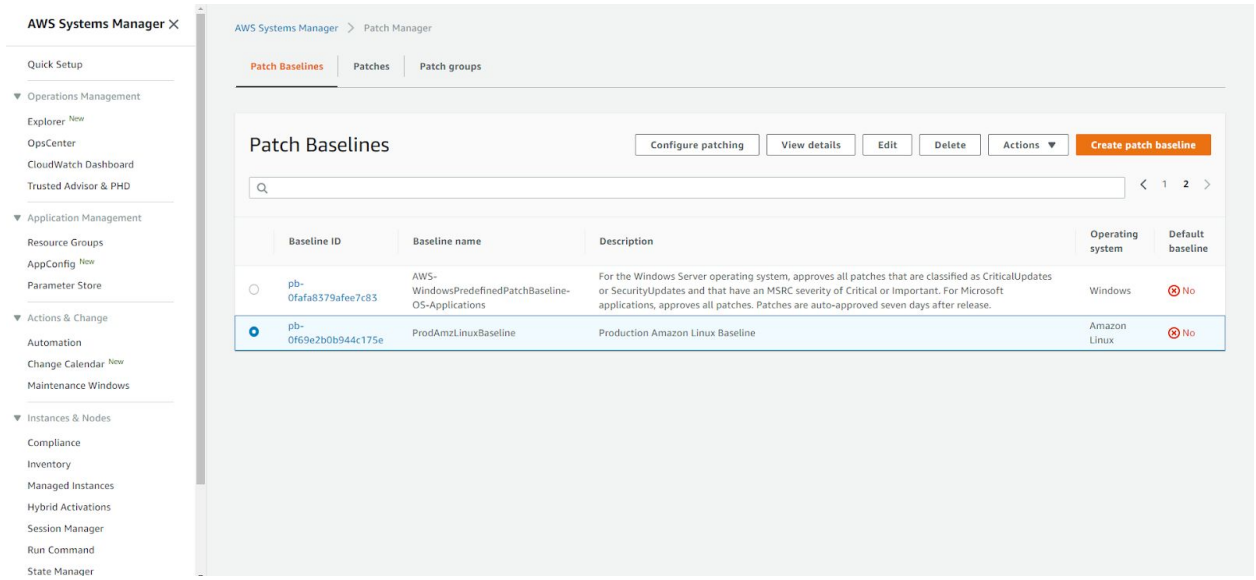
The two EC2 instances are selected for patching during the predefined maintenance window.

AWS Systems Manager - Tasks



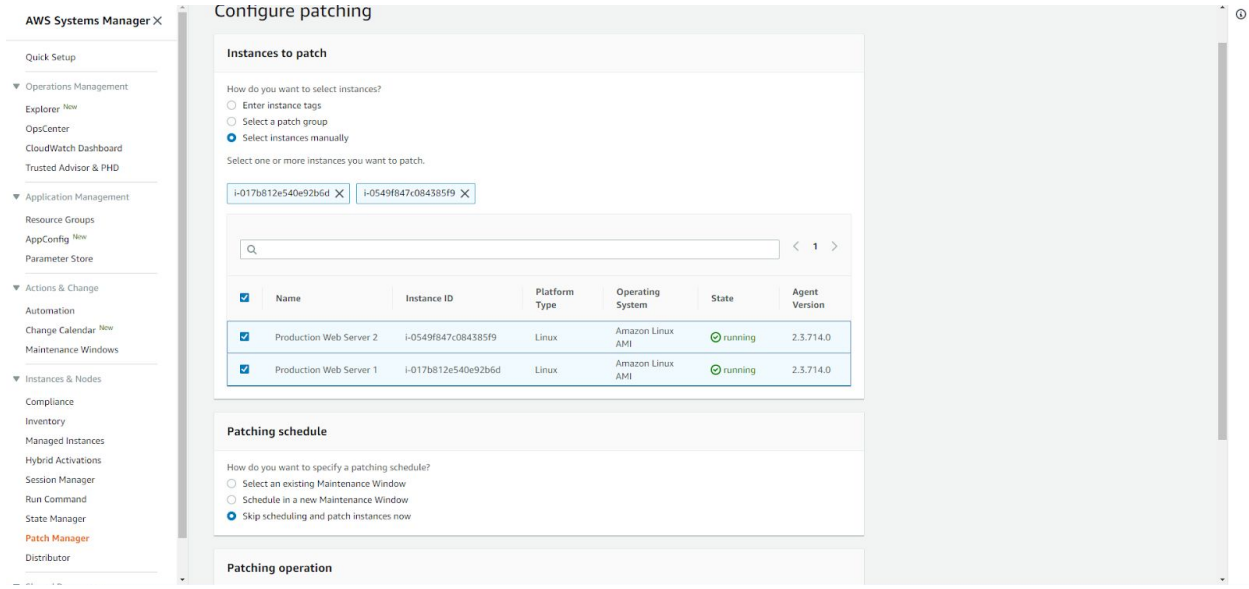
The Patching is scheduled via the Run Command from AWS System Manager.

AWS Systems Manager - Patch Baselines



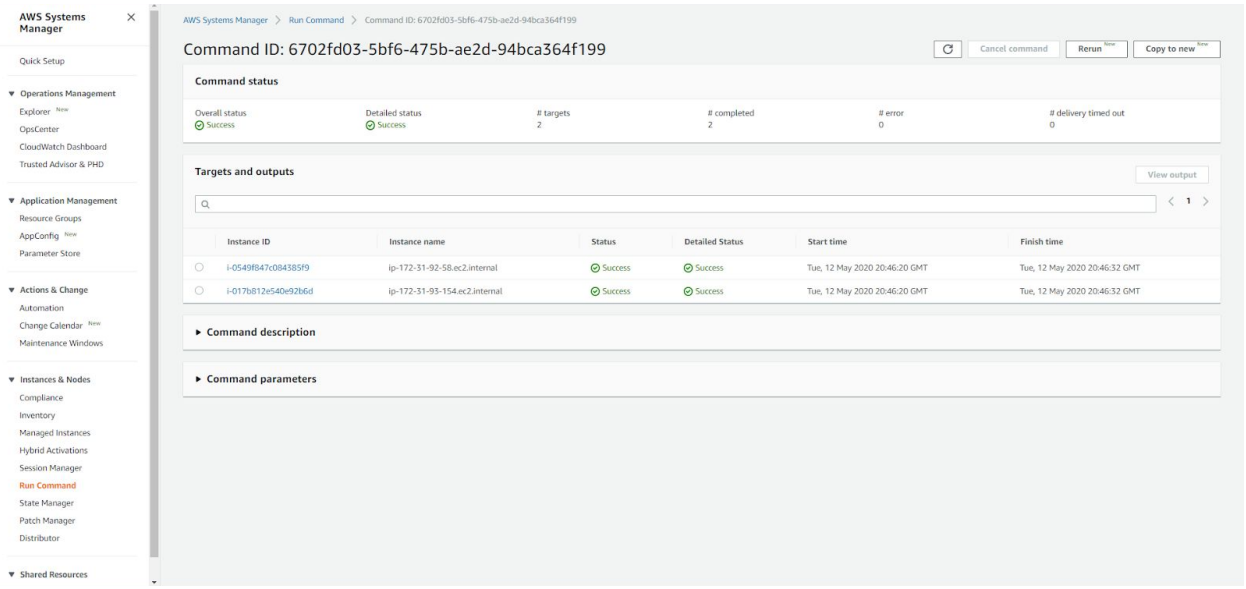
To configure a Patch to run now, a new patch configuration must be established.

AWS Systems Manager - Configure Patching



The same EC2 instance has been selected as patch instances now.

AWS Systems Manager - Run Command History



The patches were completed under a minute for the two EC2 instances.