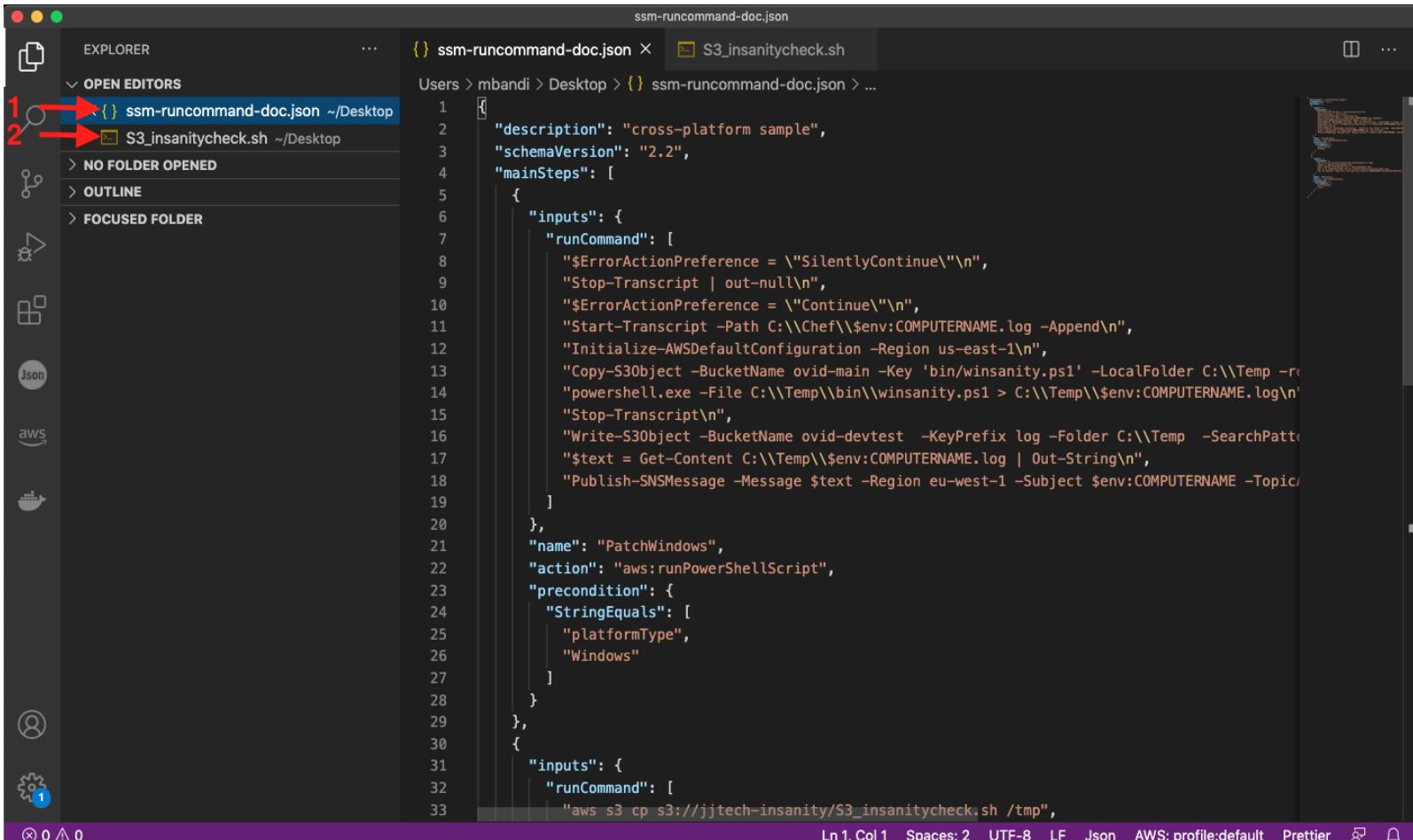


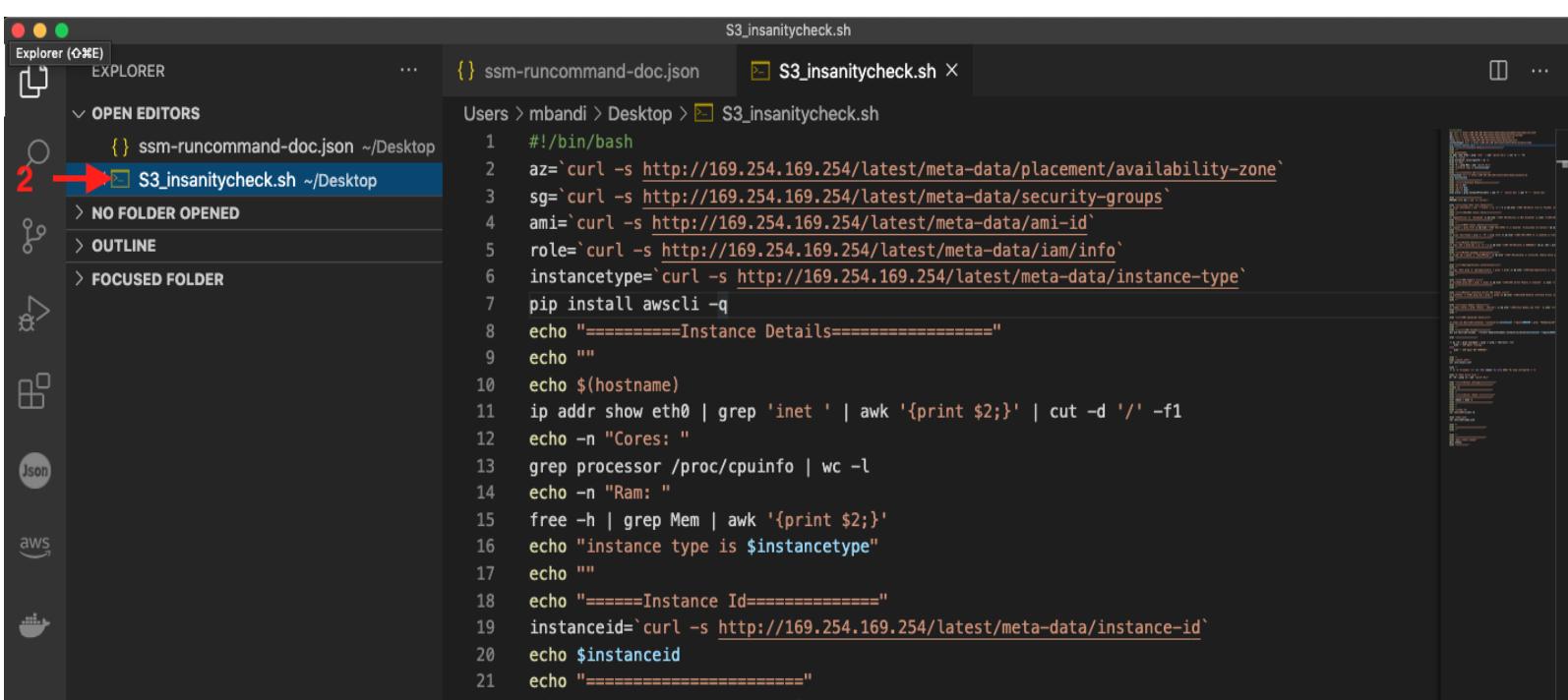
SSM Resource/Software Validation Lab

1) Download the below files in your local machine and open on a Text Editor

- https://real-world-projects.s3.amazonaws.com/ssm-resource-software-validation/S3_insanitycheck.sh
- <https://real-world-projects.s3.amazonaws.com/ssm-resource-software-validation/ssm-runcommand-doc.json>



```
ssm-runcommand-doc.json
Users > mbandi > Desktop > {} ssm-runcommand-doc.json > ...
1 {
2     "description": "cross-platform sample",
3     "schemaVersion": "2.2",
4     "mainSteps": [
5         {
6             "inputs": {
7                 "runCommand": [
8                     "$ErrorActionPreference = \"SilentlyContinue\"\\n",
9                     "Stop-Transcript | out-null\\n",
10                    "$ErrorActionPreference = \"Continue\"\\n",
11                    "Start-Transcript -Path C:\\\\Chef\\\\$env:COMPUTERNAME.log -Append\\n",
12                    "Initialize-AWSDefaultConfiguration -Region us-east-1\\n",
13                    "Copy-S3Object -BucketName ovid-main -Key 'bin/winsanity.ps1' -LocalFolder C:\\\\Temp -revertChangesOnFailure\\n",
14                    "powershell.exe -File C:\\\\Temp\\\\bin\\\\winsanity.ps1 > C:\\\\Temp\\\\$env:COMPUTERNAME.log\\n",
15                    "Stop-Transcript\\n",
16                    "Write-S3Object -BucketName ovid-devtest -KeyPrefix log -Folder C:\\\\Temp -SearchPattern '.*\\.log'\\n",
17                    "$text = Get-Content C:\\\\Temp\\\\$env:COMPUTERNAME.log | Out-String\\n",
18                    "Publish-SNSMessage -Message $text -Region eu-west-1 -Subject $env:COMPUTERNAME -Topic arn:aws:sns:eu-west-1:123456789012:my-topic\\n"
19                ],
20            },
21            "name": "PatchWindows",
22            "action": "aws:runPowerShellScript",
23            "precondition": {
24                "StringEquals": [
25                    "platformType",
26                    "Windows"
27                ]
28            },
29        },
30        {
31            "inputs": {
32                "runCommand": [
33                    "aws s3 cp s3://jjtech-insanity/S3_insanitycheck.sh /tmp",
34                ],
35            }
36        }
37    ],
38    "timeout": 300
39 }
```



```
S3_insanitycheck.sh
Users > mbandi > Desktop > S3_insanitycheck.sh
1 #!/bin/bash
2 az=`curl -s http://169.254.169.254/latest/meta-data/placement/availability-zone`
3 sg=`curl -s http://169.254.169.254/latest/meta-data/security-groups`
4 ami=`curl -s http://169.254.169.254/latest/meta-data/ami-id`
5 role=`curl -s http://169.254.169.254/latest/meta-data/iam/info`
6instancetype=`curl -s http://169.254.169.254/latest/meta-data/instance-type`
7 pip install awscli -q
8 echo "=====Instance Details====="
9 echo ""
10 echo $(hostname)
11 ip addr show eth0 | grep 'inet ' | awk '{print $2;}' | cut -d '/' -f1
12 echo -n "Cores: "
13 grep processor /proc/cpuinfo | wc -l
14 echo -n "Ram: "
15 free -h | grep Mem | awk '{print $2;}' 
16 echo "instance type is $instancetype"
17 echo ""
18 echo "=====Instance Id====="
19 instanceid=`curl -s http://169.254.169.254/latest/meta-data/instance-id`
20 echo $instanceid
21 echo "====="
22 echo "===== Instance Details ====="
```

2) Setup Your Infrastructure

==> Create a Service Role For EC2 and Attach the bellow policies

- > SSM Full Access
- > S3 Full Access
- > SNS Full Access

Search results for 'iam'

Services (1)

Features (11)

Documentation (72,976)

Marketplace (203)

Services

IAM Manage access to AWS resources

Features See all 11 results ▾

- Groups** IAM feature
- Roles** IAM feature
- Policies** IAM feature
- Users** IAM feature

Create a service role →

Identity and Access Management (IAM)

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Create role Delete role

Showing 2 results

Role name	Trusted entities	Last activity
AWSServiceRoleForSupport	AWS service: support (Service-Linked role)	None
AWSServiceRoleForTrustedAdvisor	AWS service: trustedadvisor (Service-Linked ...)	None

Create role

Select type of trusted entity

1 2 3 4

AWS service EC2, Lambda and others

Another AWS account Belonging to you or 3rd party

Web identity Cognito or any OpenID provider

SAML 2.0 federation Your corporate directory

Allows AWS services to perform actions on your behalf. Learn more

Choose a use case

Common use cases

EC2 Allows EC2 instances to call AWS services on your behalf.

Lambda Allows Lambda functions to call AWS services on your behalf.

Or select a service to view its use cases

API Gateway	CodeBuild	EMR	IoT SiteWise	RDS
AWS Backup	CodeDeploy	EMR Containers	IoT Things Graph	Redshift
AWS Chatbot	CodeGuru	ElastiCache	KMS	Rekognition
AWS Marketplace	CodeStar Notifications	Elastic Beanstalk	Kinesis	RoboMaker
AWS Support	Comprehend	Elastic Container Registry	Lake Formation	S3

* Required Cancel Next: Permissions

Create role

1 2 3 4

▼ Attach permissions policies

Choose one or more policies to attach to your new role.

[Create policy](#)

Filter policies ▾		Showing 5 results
	Policy name ▾	Used as
<input checked="" type="checkbox"/>	AmazonSNSFullAccess	None
<input type="checkbox"/>	AmazonSNSReadOnlyAccess	None
<input type="checkbox"/>	AmazonSNSServiceRole	None
<input type="checkbox"/>	AWSLambdaBasicExecutionRole	None
<input type="checkbox"/>	AWSIoTDeviceDefenderPublishFindingsToSNSMitigationAction	None

Make sure to attach all three policies before proceeding.

► Set permissions boundary

* Required

[Cancel](#)[Previous](#)[Next: Tags](#)

Feedback English (US) ▾

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Create role

1 2 3 4

Add tags (optional)

IAM tags are key-value pairs you can add to your role. Tags can include user information, such as an email address, or can be descriptive, such as a job title. You can use the tags to organize, track, or control access for this role. [Learn more](#)

Key	Value (optional)	Remove
Add new key		

You can add 50 more tags.

Cancel Previous Next: Review

English (US) ▾

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Create role

1 2 3 4

Review

Provide the required information below and review this role before you create it.

Role name*

EC2RoleForSSM-S3-SNS

Use alphanumeric and '+,-,@-' characters. Maximum 64 characters.

Role description

Allows EC2 instances to call AWS services on your behalf.

Maximum 1000 characters. Use alphanumeric and '+,-,@-' characters.

Trusted entities

AWS service: ec2.amazonaws.com

Policies

- AmazonSSMFullAccess ↗
- AmazonS3FullAccess ↗
- AmazonSNSFullAccess ↗

Permissions boundary Permissions boundary is not set

No tags were added.

* Required

[Cancel](#) [Previous](#) [Create role](#)

Feedback English (US) ▾

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The role EC2RoleForSSM-S3-SNS has been created.

[Create role](#)[Delete role](#)[Search](#)

Role name	Trusted entities	Last activity
AWSServiceRoleForSupport	AWS service: support (Service-Linked role)	None
AWSServiceRoleForTrustedAdvisor	AWS service: trustedadvisor (Service-Linked ...)	None
EC2RoleForSSM-S3-SNS	AWS service: ec2	None

 New EC2 Experience Tell us what you think [X](#)
EC2 Dashboard [New](#)

Events

Tags

Limits

▼ Instances

[Instances](#)

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances [New](#)

Dedicated Hosts

Scheduled Instances

Capacity Reservations

▼ Images

AMIs

Instances
Info

C
Connect
Instance state ▾
Actions ▾
Launch Instances

Filter instances
1 >

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
You do not have any instances in this region						

Select an instance above

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

[Cancel and Exit](#)

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"
Search by Systems Manager parameter

Quick Start
1 to 44 of 44 AMIs > >

My AMIs
Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-048f6ed62451373d9 (64-bit x86) / ami-00315de4391ce4f6d (64-bit Arm)

Amazon Linux
Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.

Root device type: ebs
Virtualization type: hvm
ENI Enabled: Yes

macOS Big Sur 11.2.3 - ami-0df50a48200a29819

The macOS Big Sur AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebs
Virtualization type: hvm
ENI Enabled: Yes

macOS Catalina 10.15.7 - ami-08e622e2dd5af1c42

The macOS Catalina AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebs

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance families ▾ Current generation ▾ Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances (i) Launch into Auto Scaling Group (i)

You may want to consider launching these instances into an Auto Scaling Group to help you maintain application availability and for easy scaling in the future. [Learn how Auto Scaling can help your application stay healthy and cost effective.](#)

Purchasing option (i) Request Spot instances

Network (i) Create new VPC

Subnet (i) Create new subnet
4091 IP Addresses available

Auto-assign Public IP (i)

Placement group (i) Add Instance to placement group

Capacity Reservation (i)

Domain join directory (i) Create new directory

IAM role (i) Create new IAM role

Cancel Previous Review and Launch Next: Add Storage

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type (i)	Device (i)	Snapshot (i)	Size (GiB) (i)	Volume Type (i)	IOPS (i)	Throughput (MB/s) (i)	Delete on Termination (i)	Encryption (i)
Root	/dev/xvda	snap-0d6a2ac1fec4cf17	<input type="text" value="8"/>	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous Review and Launch Next: Add Tags

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum) | Value (256 characters maximum) | Instances (1) | Volumes (1) | Network Interfaces (1)

Name: WebServers

Add another tag (Up to 50 tags maximum)

Cancel Previous Review and Launch Next: Configure Security Group

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group Select an existing security group

Security group name: ssm-insanitycheck-sg

Description: ssm-insanitycheck-sg

Type (i) | Protocol (i) | Port Range (i) | Source (i) | Description (i)

This security group has no rules

Add Rule

Warning
You will not be able to connect to this instance as the AMI requires port(s) 22 to be open in order to have access. Your current security group doesn't have port(s) 22 open.

Cancel Previous Review and Launch

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Amazon Linux 2 AMI (HVM), SSD Vol. Free tier eligible

Amazon Linux 2 comes with five years support packages through extras. This AMI is the standard. Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs
t2.micro	-	1

Security Groups

Security group name: ssm-insanitycheck-sg
Description: ssm-insanitycheck-sg

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Proceed without a key pair I acknowledge that I will not be able to connect to this instance unless I already know the password built into this AMI.

Cancel Launch Instances

Network Performance: Low to Moderate

Edit security groups

Type (i) | Protocol (i) | Port Range (i) | Source (i) | Description (i)

This security group has no rules

Cancel Previous Launch

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New EC2 Experience Tell us what you think X

Instances (2) Info

Filter instances

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	WebServers	i-017d2b353d28b7c31	Running	t2.micro	Initializing	No alarms +	us-east-1a
<input type="checkbox"/>	WebServers	i-0cae472fa7289d0ec	Running	t2.micro	Initializing	No alarms +	us-east-1a

Select an instance above

Actions ▾ Launch Instances ▾

EC2 Dashboard New

Events

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

AWS Services ▾

Search for resource Access Manager X

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Search results for 'resour'

Services (15)

Features (56)

Documentation (30)

Create a Resource Group

Resource Access Manager Share AWS resources with other accounts or AWS Organizations

Resource Groups & Tag Editor AWS Resource Groups Lets You Search and Group AWS Resources

Personal Health Dashboard Personalized view of AWS service health.

Systems Manager AWS Systems Manager is a Central Place to View and Manage AWS Resources

See all 15 results ▶

See all 56 results ▶

Connected to your AWS resources on-the-go

AWS Console Mobile App now supports four additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device. Learn more ↗

Explore AWS

Reduce Amazon EFS Costs by 47% Simple, serverless, set-and-forget One Zone

MANAGEMENT TOOLS

Resource Groups

Find and group your AWS resources by using queries.

You can create unlimited, single-region groups in your account, use your groups to view group-related insights, and automate tasks on group resources. Groups can be based on resource types and tag queries, or AWS CloudFormation stacks.

Start to use Resource Groups

Find and group your AWS resources.

Create a resource group

How it works

Find AWS resources in a selected region.

Create a group based on tag queries or an AWS CloudFormation stack.

View resource group specific insights.

More resources

- [Documentation](#)
- [API reference](#)
- [FAQ](#)

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AWS Resource Groups ×

- Resources
 - Create Resource Group
 - Saved Resource Groups
- Tagging
 - Tag Editor
 - Tag Policies
- What's new

Create query-based group

Group type
Select a group type to define a group based on resource types and tags, or create a group based on your existing CloudFormation stack.

Tag based
Group resources by specifying tags that are shared by the resources.

CloudFormation stack based
Create a resource group based on an existing CloudFormation stack. The group will have the same logical structure as the stack.

Grouping criteria
Define a group based on resource types and tags.

Resource types
Select resource types

AWS::EC2::Instance X 3

Tags
Name 4 WebServers 5

Add

Preview group resources

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AWS Resource Groups ×

- Resources
 - Create Resource Group
 - Saved Resource Groups
- Tagging
 - Tag Editor
 - Tag Policies
- What's new

Group resources (2)

Export 2 resources to CSV ▶

Identifier	Tag: Name	Service	Type	Region	Tags
i-017d2b353d28b7c31	WebServers	EC2	Instance	us-east-1	1
i-0cae472fa7289d0ec	WebServers	EC2	Instance	us-east-1	1

Group details

Group name 6 JJTech-WebServers-RG
Maximum 128 characters. Must contain only letters, numbers and hyphens.

Group description - optional 7 JJTech-WebServers-RG
Maximum 512 characters. It can only contain letters, numbers, hyphens, underscores, dots, and spaces.

► Group tags - optional
The tags specified here will not be applied to group resources, but only the resource group itself.

Create group 8

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The resource group "JJTech-WebServers-RG" has been successfully created in the current region (us-east-1). 9

AWS Resource Groups > Saved resource groups > JJTech-WebServers-RG

JJTech-WebServers-RG

Edit Delete

Group details

Group name
JJTech-WebServers-RG

Group description
JJTech-WebServers-RG

Group ARN
arn:aws:resource-groups:us-east-1:503868045399:group/JJTech-WebServers-RG

Amazon S3**Buckets**

Access Points
Object Lambda Access Points
Batch Operations
Access analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

Dashboards
AWS Organizations settings

Feature spotlight 3

▶ AWS Marketplace for S3

Amazon S3

Buckets (3)Buckets are containers for data stored in S3. [Learn more](#) Find buckets by name

Name	AWS Region	Access	Creation date
cf-templates-1qk28230wjd7f-us-east-1	US East (N. Virginia) us-east-1	Objects can be public	April 28, 2021, 19:10:49 (UTC-06:00)
cloudformation-projects	US East (N. Virginia) us-east-1	⚠️ Public	April 28, 2021, 14:01:58 (UTC-06:00)
real-world-projects	US East (N. Virginia) us-east-1	⚠️ Public	April 28, 2021, 21:05:10 (UTC-06:00)

Feedback

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Services ▾

Amazon S3 > Create bucket

Create bucketBuckets are containers for data stored in S3. [Learn more](#)**General configuration**

Bucket name

jjtech-ssm-ec2-sanitycheck

Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

US East (N. Virginia) us-east-1

Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

You must not provide the same bucket name because bucket names are unique. Instead add some characters at the end of the bucket name i gave at the top to make it unique.

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Tags (0) - optionalTrack storage cost or other criteria by tagging your bucket. [Learn more](#)

No tags associated with this bucket.

Default encryptionAutomatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption

- Disable
- Enable

► Advanced settings

After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

View details

Successfully created bucket "jjtech-ssm-ec2-sanitycheck"

To upload files and folders, or to configure additional bucket settings choose View details.

Amazon S3

Buckets (4)					<input type="button" value="C"/>	<input type="button" value="Copy ARN"/>	<input type="button" value="Empty"/>	<input type="button" value="Delete"/>	<input type="button" value="Create bucket"/>
Buckets are containers for data stored in S3. Learn more									
<input type="text"/> Find buckets by name					< 1 >				
Name	AWS Region	Access	Creation date						
cf-templates-1qk28230wjd7f-us-east-1	US East (N. Virginia) us-east-1	Objects can be public	April 28, 2021, 19:10:49 (UTC-06:00)						
cloudformation-projects	US East (N. Virginia) us-east-1	⚠️ Public	April 28, 2021, 14:01:58 (UTC-06:00)						
jjtech-ssm-ec2-sanitycheck	US East (N. Virginia) us-east-1	Bucket and objects not public	April 29, 2021, 09:05:04 (UTC-06:00)						
real-world-projects	US East (N. Virginia) us-east-1	⚠️ Public	April 28, 2021, 21:05:10 (UTC-06:00)						

Once created, upload the
s3_insanitycheck.sh file into the
bucket

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Services ▾



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Global ▾

Support ▾

🕒 Upload succeeded
View details below.

Upload: status

The information below will no longer be available after you navigate away from this page.

Summary

Destination	Succeeded 1 file, 5.0 KB (100.00%)	Failed 0 files, 0 B (0%)
-------------	---------------------------------------	-----------------------------

Files and folders Configuration

Files and folders (1 Total, 5.0 KB)

Files and folders (1 Total, 5.0 KB)						
<input type="text"/> Find by name						
Name	Folder	Type	Size	Status	Error	
S3_insanitycheck.sh	-	text/x-sh	5.0 KB	Succeeded	-	

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Services ▾



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Support ▾

Amazon S3 > jjtech-ssm-ec2-sanitycheck

jjtech-ssm-ec2-sanitycheck

Objects Properties Permissions Metrics Management Access Points

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

< 1 >

Name	Type	Last modified	Size	Storage class
S3_insanitycheck.sh	sh	April 29, 2021, 09:07:52 (UTC-06:00)	5.0 KB	Standard

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followed by a slash (/). This object then appears as folder on the console. [Learn more](#)

Your bucket policy might block folder creation
If your bucket policy prevents uploading objects without specific tags, metadata, or access control list (ACL) grantees, you will not be able to create a folder using this configuration. Instead, you can use the [upload configuration](#) to upload an empty folder and specify the appropriate settings.

Folder

Folder name /

Folder names can't contain "/". [See rules for naming](#)

Server-side encryption

The following settings apply only to the new folder object and not to the objects contained within it.

Server-side encryption

Disable
 Enable

[Cancel](#) [Create folder](#)

AWS Services ▾ SNS

AWS Resource

Resources Create Resource Group Saved Resource Groups

Tagging Tag Editor Tag Policies

What's new

Search results for 'sns'

Services

Simple Notification Service [View detail](#)
SNS managed message topics for Pub/Sub

Features

Events ElastiCache feature

Documentation

See all 37,200 results in Documentation

AWS Services ▾ Search for services, features, marketplace products, and docs [Option+S] Mbandi Principal DevOps Engineer ▾ N. Virginia ▾ Support ▾

Amazon SNS

Topics [Subscriptions](#)

Mobile Push notifications Text messaging (SMS)

Application Integration

Amazon Simple Notification Service

Pub/sub messaging for microservices and serverless applications.

Amazon SNS is a highly available, durable, secure, fully managed pub/sub messaging service that enables you to decouple microservices, distributed systems, and event-driven serverless applications. Amazon SNS provides topics for high-throughput, push-based, many-to-many messaging.

Create topic

Topic name
A topic is a message channel. When you publish a message to a topic, it fans out the message to all subscribed endpoints.

[Next step](#) [Start with an overview](#)

Benefits and features

Reliably deliver messages with durability Amazon SNS uses cross availability zone message storage to provide high message durability. Amazon SNS reliably delivers messages to valid AWS endpoints, such as Amazon SQS queues and AWS Lambda functions.	Automatically scale your workload Amazon SNS leverages the proven AWS cloud to dynamically scale with your application. Amazon SNS is a fully managed service, taking care of the heavy lifting related to capacity planning, provisioning,
---	---

Pricing
Amazon SNS has no upfront costs. You pay based on the number of messages you publish, the number of messages you deliver, and any additional API calls for managing topics and subscriptions. Delivery pricing varies by endpoint type.

[Learn more](#)

Topic jjtech-webservers-ssm-insanitycheck created successfully.
You can create subscriptions and send messages to them from this topic.

Publish message

Amazon SNS > Topics > jjtech-webservers-ssm-insanitycheck

jjtech-webservers-ssm-insanitycheck

[Edit](#)[Delete](#)[Publish message](#)

Details

Name
jjtech-webservers-ssm-insanitycheck

ARN
arn:aws:sns:us-east-1:503868045399:jjtech-webservers-ssm-insanitycheck

Type
Standard

Display name
jjtech-webservers-ssm-insanitycheck

Topic owner
503868045399

[Subscriptions](#)[Access policy](#)[Delivery retry policy \(HTTP/S\)](#)[Delivery status logging](#)[Encryption](#)[Tags](#)

Subscriptions (0)

[Edit](#)[Delete](#)[Request confirmation](#)[Confirm subscription](#)[Create subscription](#)[Search](#)

< 1 >

ID Endpoint Status Protocol

No subscriptions found

You don't have any subscriptions to this topic.

[Create subscription](#)

Important changes for sending text messages (SMS) to US destinations

Effective June 1, 2021, US telecom providers no longer support person-to-person (P2P) long codes for sending SMS messages to US destinations. To continue to send SMS messages to US destinations, register and use a valid origination ID. [Learn more](#)

Amazon SNS > Subscriptions > Create subscription

Create subscription

Details

Topic ARN

arn:aws:sns:us-east-1:503868045399:jjtech-webservers-ssm-insanitycheck

Protocol

The type of endpoint to subscribe

Email

Endpoint

An email address that can receive notifications from Amazon SNS.

awanmbandi@gmail.com

After your subscription is created, you must confirm it. [Info](#)

Subscription filter policy - optional

This policy filters the messages that a subscriber receives. [Info](#)

Redrive policy (dead-letter queue) - optional

Send undeliverable messages to a dead-letter queue. [Info](#)[Cancel](#)[Create subscription](#)

Gmail Search mail

Inbox 2,593 Starred Snoozed Important Chats Sent Drafts 50 Spam [imap]/Trash BIBLE LESSONS FR... 66

AWS Notification - Subscription Confirmation Inbox

jjtech-webservers-ssm-insanitycheck <no-reply@sns.amazonaws.com> to me 9:17 AM (0 minutes ago)

You have chosen to subscribe to the topic:
arn:aws:sns:us-east-1:503868045399:jjtech-webservers-ssm-insanitycheck

To confirm this subscription, click or visit the link below (If this was in error no action is necessary):
[Confirm subscription](#)

Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to [sns-opt-out](#)

Make sure to check the Spam folder if it doesn't appear in your inbox



Simple Notification Service

Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:

arn:aws:sns:us-east-1:503868045399:jjtech-webservers-ssm-insanitycheck:5c7a21aa-0382-47f1-a2f3-e5050824e1c8

If it was not your intention to subscribe, [click here to unsubscribe](#).

We're going to create a Run Command document in Systems Manager using our **ssm-runcommand-doc.json**

aws Services ▾

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Application Manager New

AppConfig

Parameter Store

Change Management

Change Manager New

Automation

Change Calendar

Maintenance Windows

Node Management

Fleet Manager New

Compliance

Inventory

Hybrid Activations

Session Manager

Run Command

State Manager

Patch Manager

Distributor

Shared Resources

Documents

MANAGEMENT TOOLS

AWS Systems Manager
Gain Operational Insight and Take Action on AWS Resources.

[Get Started with Systems Manager](#)

View operational data for groups of resources, so you can quickly identify and act on any issues that might impact applications that use those resources.

How it works

Group your resources

View insights

Take action

More resources

Documentation

API reference

FAQs

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Shared Resources
Documents

Create a RunCommand Doc

AWS Systems Manager > Documents

Owned by Amazon | Owned by me | Shared with me | All documents

Preferences Actions ▾ Create document ▾

Command or Session Automation

Search by keyword or filter by tag or attributes

Documents

AWS-ASGEnterStandby Document type Owner Automation Amazon Platform types Windows, Linux, MacOS Default version 1

AWS-ASGExitStandby Document type Owner Automation Amazon Platform types Windows, Linux, MacOS Default version 1

AWS-ApplyAnsiblePlaybooks Document type Owner Command Amazon Platform types Linux Default version 1

AWS-ApplyChefRecipes Document type Owner Command Amazon Platform types Windows, Linux Default version 1

AWS-ApplyDSCMof Document type Owner Command Amazon Platform types

AWS-ApplyPatchBaseline Document type Owner Command Amazon Platform types

AWS-AttachEBSVolume Document type Owner Automation Amazon Platform types

AWS-AttachIAMToInstance Document type Owner Automation Amazon Platform types

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Shared Resources
Documents

Create document

AWS Systems Manager > Documents > Create document

Document details

Documents define the actions that AWS Systems Manager performs on your resources.

Name
Enter a unique name for the document. The name must be between 3 and 128 characters. Valid characters are a-z, A-Z, 0-9, and _ , and . only

Target type - optional
Specify the types of resources the document can run on. For example, /AWS::EC2::Instance" or "/" for all resource types. [Learn more](#)

Document type - optional
Select a document type based on the service that you want to use.

Content

JSON
Specify document content in JSON format.

YAML
Specify document content in YAML format.

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AWS Click to go forward, hold to see history

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Change Management
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Shared Resources
Documents

Create document

AWS Systems Manager > Documents > Create document

Document details

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Target type - optional
Specify the types of resources the document can run on. For example, /AWS::EC2::Instance" or "/" for all resource types. [Learn more](#)

Document type - optional
Select a document type based on the service that you want to use.

Content

JSON
Specify document content in JSON format.

YAML
Specify document content in YAML format.

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Change Management

- Change Manager New
- Automation
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- Maintenance Windows

Node Management

- Fleet Manager New
- Compliance
- Inventory
- Hybrid Activations
- Session Manager
- Run Command
- State Manager
- Patch Manager
- Distributor

Shared Resources

Documents

JSON Specify document content in JSON format.

YAML Specify document content in YAML format.

```

1  {
2    "description": "cross-platform sample",
3    "schemaVersion": "2.2",
4    "mainSteps": [
5      {
6        "inputs": {
7          "runCommand": [
8            "$ErrorActionPreference = \"SilentlyContinue\"\\n",
9            "Stop-Transcript | Out-Null\\n",
10           "$ErrorActionPreference = \"Continue\"\\n",
11           "Start-Transcript -Path C:\\\\Chef\\\\$env:COMPUTERNAME.log -Append\\n",
12           "Initialize-AWSDefaultConfiguration -Region us-east-1\\n",
13           "Copy-S3Object -BucketName ovid-main -Key 'bin/winsanity.ps1' -LocalFolder C:\\\\Temp -region us-east-1\\n",
14           "powershell.exe -File C:\\\\Temp\\\\bin\\\\winsanity.ps1 > C:\\\\Temp\\\\$env:COMPUTERNAME.log\\n",
15           "Stop-Transcript\\n",
16           "Write-S3Object -BucketName ovid-devtest -KeyPrefix log -Folder C:\\\\Temp -SearchPattern *.log\\n",
17           "$text = Get-Content C:\\\\Temp\\\\$env:COMPUTERNAME.log | Out-String\\n",
18           "Publish-SNSMessage -Message $text -Region eu-west-1 -Subject $env:COMPUTERNAME -TopicArn arn:aws:sns:eu-west-1:171789863757:
19         ]
20       },
21       "name": "PatchWindows",
22       "action": "aws:runPowerShellScript",
23       "precondition": {
24         "StringEquals": [
25           "platformType",
26           "Windows"
27         ]
28       }
29     },
30     {
31       "inputs": {
32         "runCommand": [
33           "aws s3 cp s3://jjtech-insanity/S3_insanitycheck.sh /tmp",
34           "chmod +x /tmp/S3_insanitycheck.sh",
35           "bash /tmp/S3_insanitycheck.sh &> /tmp/$(hostname).log",
36           "aws s3 cp /tmp/$(hostname).log s3://jjtech-insanity/log/$(hostname).log",
37           "aws sns publish --topic-arn \"arn:aws:sns:us-east-1:503868045399:jjtech-webservers-ssm-insanitycheck\" --subject $(hostname)"
38         ]
39       }
40     }
41   }
42 }
```

Edit the Linux section of the `ssm-runcommand-doc.json`, provide your own values, paste and create document

Shared Resources

Documents

▶ Document tags - optional

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Your document was successfully created

AWS Systems Manager > Documents

Owned by Amazon Owned by me Shared with me All documents

Documents Preferences Actions

Search by keyword or filter by tag or attributes

jitech-ssm-webserver-sanity

Document type Owner
Command 503868045399

Platform types
Windows, Linux

Default version 1

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AWS Systems Manager

Quick Setup

Operations Management

- Explorer
- OpsCenter
- CloudWatch Dashboard
- PHD

Application Management

- Application Manager New
- AppConfig
- Parameter Store

Change Management

- Change Manager New
- Automation
- Change Calendar
- Maintenance Windows

AWS Systems Manager > Documents > jjtech-ssm-webserver-sanity

jjtech-ssm-webserver-sanity

Description Content Versions Details

Document version 1 (Default)

Description cross-platform sample Owner 503868045399

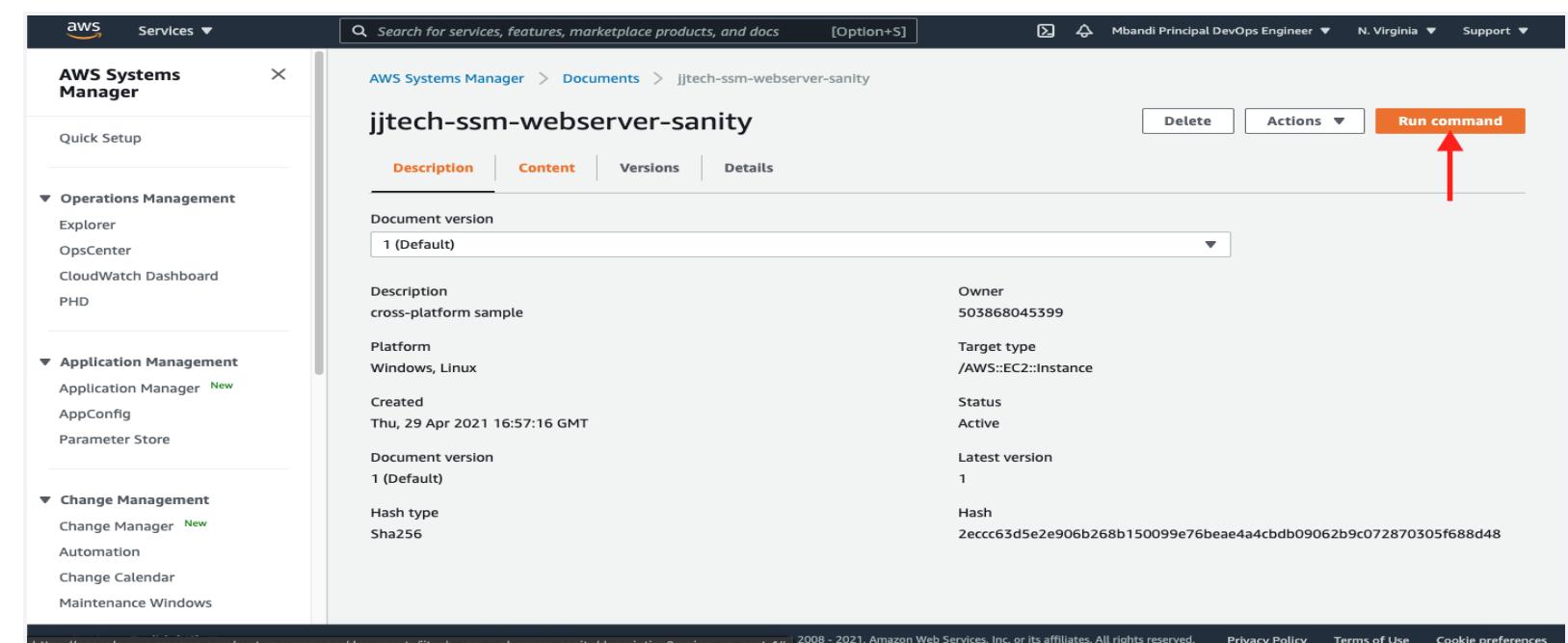
Platform Windows, Linux Target type /AWS::EC2::Instance

Created Thu, 29 Apr 2021 16:57:16 GMT Status Active

Document version 1 (Default) Latest version 1

Hash type Sha256 Hash 2eccc63d5e2e906b268b150099e76beae4a4cddb09062b9c072870305f688d48

[Delete](#) [Actions ▾](#) [Run command](#)



https://console.aws.amazon.com/systems-manager/documents/jjtech-ssm-webserver-sanity/description?region=us-east-1# 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

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AWS Systems Manager

Quick Setup

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Change Management

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AWS Systems Manager > Run Command > Run a command

Run a command

Command document Select the type of command that you want to run.

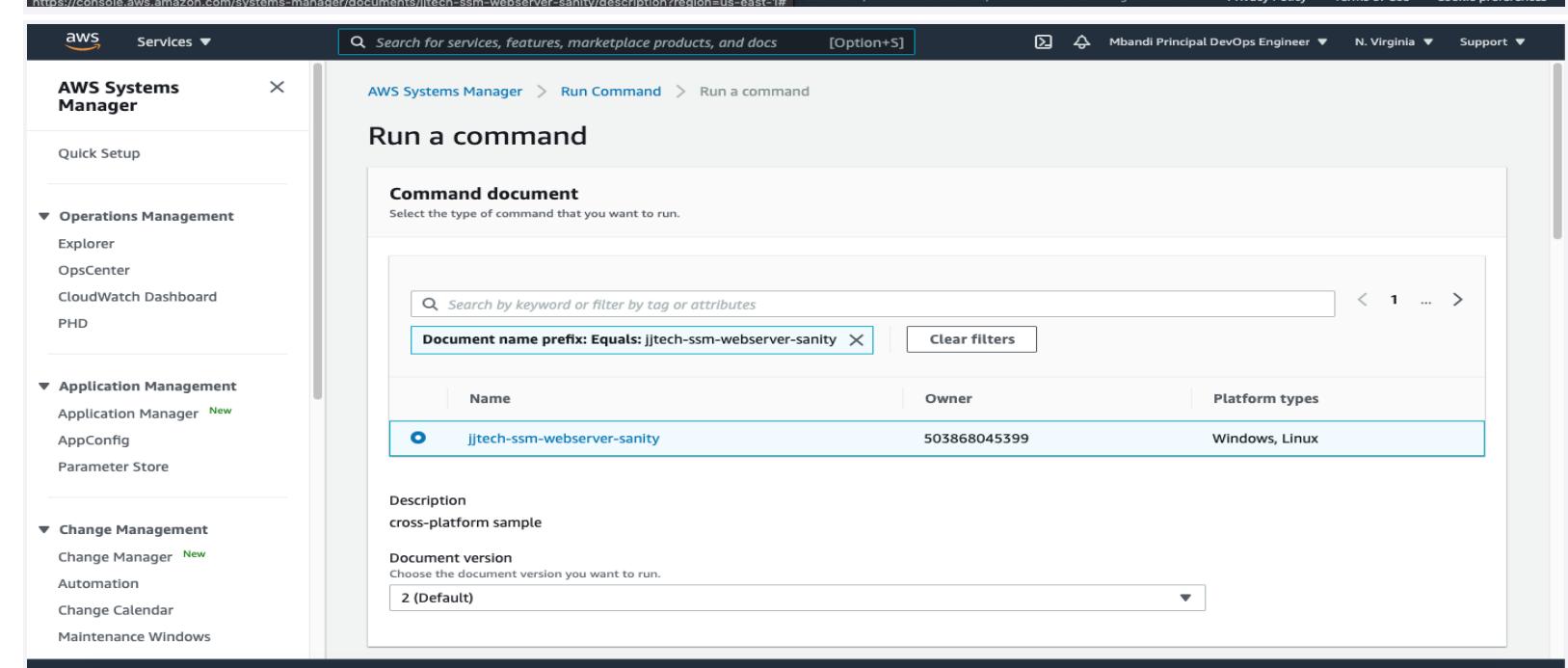
Document name prefix: Equals: jjtech-ssm-webserver-sanity

Name	Owner	Platform types
jjtech-ssm-webserver-sanity	503868045399	Windows, Linux

Description cross-platform sample

Document version Choose the document version you want to run.

2 (Default)



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AWS Systems Manager

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Change Management

- Change Manager New
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- Maintenance Windows

AWS Systems Manager > Targets

Targets

Targets Choose a method for selecting targets.

Specify instance tags Specify one or more tag key-value pairs to select instances that share those tags.

Choose instances manually Manually select the instances you want to register as targets.

Choose a resource group Choose a resource group that includes the resources you want to target.

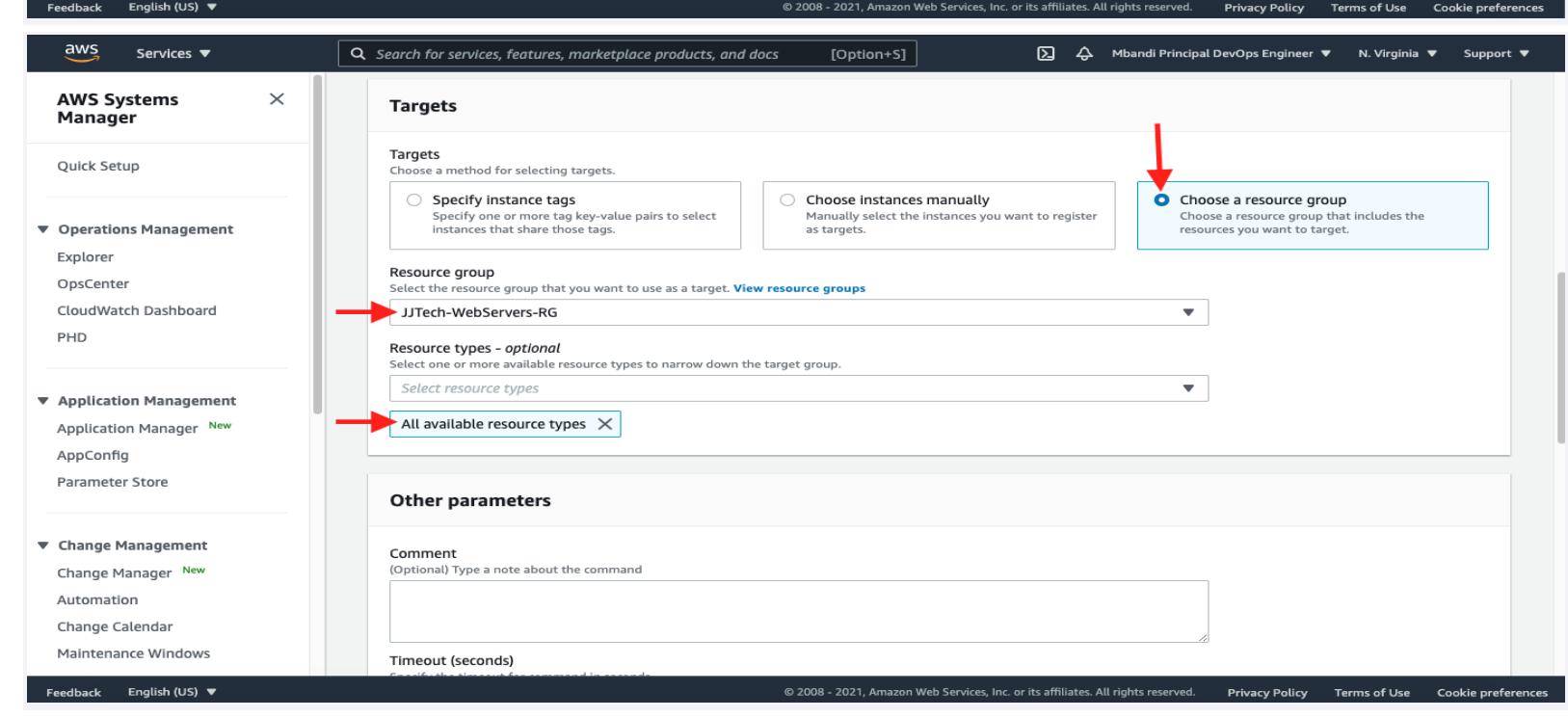
Resource group Select the resource group that you want to use as a target. [View resource groups](#)

All available resource types

Other parameters

Comment (Optional) Type a note about the command

Timeout (seconds) Specify the time limit for the command to complete.



AWS Services ▾

Search results for 'cloudwa'

CloudWatch

Services (2)

Features (8)

Documentation (6)

CloudWatch

Monitor Resources and Applications

Amazon EventBridge

Serverless event bus that connects application data from your own apps, SaaS, and A...

Services

CloudWatch dashboard

Systems Manager feature

View in Logs Insights

Create log group

Exact match

Contributor Insights ▾

Subscription filters ▾

AWS Services ▾

CloudWatch

Dashboards

Alarms

In alarm 0

Insufficient data 0

OK 0

Billing

Logs

Log groups ←

Insights

Metrics

Explorer

Streams New

Events

Rules

Event Buses

ServiceLens

CloudWatch > CloudWatch Logs > Log groups

Log groups (0)

By default, we only load up to 10000 log groups.

Filter log groups or try prefix search

Exact match

Actions ▾

View in Logs Insights

Create log group

Log group

Retention

Metric filters

Contributor Insights

Subscription filters

AWS Services ▾

CloudWatch

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Insufficient data 0

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Log groups ←

Insights

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Streams New

Events

Rules

Event Buses

ServiceLens

Service Map

Traces

Container Insights New

Resources

Performance monitoring

Lambda Insights New

Performance monitoring

Create log group

Log group details

Log group name: ssm-webservers-sanitycheck

Retention setting: 1 day

KMS key ARN - optional

Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags are associated with this log group.

Add new tag

You can add up to 50 more tag(s).

Create

Cancel

Quick Setup

▼ Operations Management

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▼ Application Management

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AWS Systems Manager Services ▾ cloudwatch Mbandi Principal DevOps Engineer N. Virginia Support ▾

Command ID: cffc6fbb-f1a4-4de9-94d7-12408b22ece5 was successfully sent!

AWS Systems Manager > Run Command > Command ID: cffc6fbb-f1a4-4de9-94d7-12408b22ece5

Command ID: cffc6fbb-f1a4-4de9-94d7-12408b22ece5

Success

Overall status	Detailed status	# targets	# completed	# error	# delivery timed out
Success	Success	2	2	0	0

Targets and outputs

View output

Instance ID	Instance name	Status	Detailed Status	Start time	Finish time
I-0cae472fa7289d0ec	ip-172-31-83-230.ec2.internal	Success	Success	Thu, 29 Apr 2021 17:11:01 GMT	Thu, 29 Apr 2021 17:11:07 GMT
I-017d2b353d28b7c31	ip-172-31-83-191.ec2.internal	Success	Success	Thu, 29 Apr 2021 17:11:00 GMT	Thu, 29 Apr 2021 17:11:07 GMT

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mail.google.com/mail/u/2/#inbox

Gmail Search mail

Compose

Inbox 2,595

Starred Snoozed

Primary Social 50 new Promotions 50 new

Verify with the Private IP's of the WebServers

ip-172-31-83-191.ec2.internal - /tmp/S3_insanitycheck.sh: line 7: pip: command not found =====Ins... 11:11 AM

ip-172-31-83-230.ec2.internal - /tmp/S3_insanitycheck.sh: line 7: pip: command not found =====Ins... 11:11 AM

Search mail

Inbox ip-172-31-83-191.ec2.internal Inbox

jjtech-webservers-ssm-insanitycheck <no-reply@sns.amazonaws.com> to me 11:11 AM (4 minutes ago)

/tmp/S3_insanitycheck.sh: line 7: pip: command not found
=====Instance Details=====

ip-172-31-83-191.ec2.internal
cut: invalid byte, character or field list
Try 'cut --help' for more information.
Cores:
wc: invalid option -- '
'
Try 'wc --help' for more information.
Ram:
983M
instance type is t2.micro

=====Instance Id=====
i-017d2b353d28b7c31

=====Insnace Details=====
AZ is us-east-1a
sg are ssm-insanitycheck-sg
ami is ami-048f6ed62451373d9
awk: fatal: cannot open file '

Here's a detail view of the result.....

Check Cloudwatch Logs and S3

AWS Services ▾

CloudWatch X

CloudWatch > CloudWatch Logs > Log groups > ssm-webservers-sanitycheck

CloudWatch Logs Log groups Metrics Events ServiceLens Container Insights Lambda Insights

Log streams Metric filters Subscription filters Contributor Insights Tags

Log streams (2)

Log stream	Last event time
cffc6fb.../i-017d2b353d28b7c31...	2021-04-29 11:11:03 (UTC-06:00)
cffc6fb.../i-0cae472fa7289d0ec...	2021-04-29 11:11:02 (UTC-06:00)

Amazon S3 X

Buckets

Access Points

Object Lambda Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight 3**Server 1** →**Server 2** →

▶ AWS Marketplace for S3

Amazon S3 > jjtech-ssm-ec2-sanitycheck > log/ →log/Copy S3 URI**Objects**

Properties

Objects (2)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

C Copy URL Delete Actions ▾ Create folder Upload Find objects by prefix< 1 > ...

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	ip-172-31-83-191.ec2.internal.log	log	April 29, 2021, 11:11:04 (UTC-06:00)	3.3 KB	Standard
<input type="checkbox"/>	ip-172-31-83-230.ec2.internal.log	log	April 29, 2021, 11:11:04 (UTC-06:00)	3.3 KB	Standard