

The AWS Command Line Interface (AWS CLI) is a unified tool to manage your AWS services. With just one tool to download and configure, you can control multiple AWS services from the command line and automate them through scripts.

The AWS CLI v2 offers several new features including improved installers, new configuration options such as AWS IAM Identity Center (successor to AWS SSO), and various interactive features.

Windows
Download and run the 64-bit Windows installer.

MacOS
Download and run the MacOS PKG installer.

Linux
Download, unzip, and then run the Linux installer

Amazon Linux
The AWS CLI comes pre-installed on Amazon Linux AMI.

Release Notes
Check out the Release Notes for more information on the latest version.

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Release Notes
Check out the Release Notes for more information on the latest version.

```
cmd Select Command Prompt - aws ec2 help
Microsoft Windows [Version 10.0.19045.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\eshwar.l>aws --version
aws-cli/2.9.20 Python/3.9.11 Windows/10 exe/AMD64 prompt/off

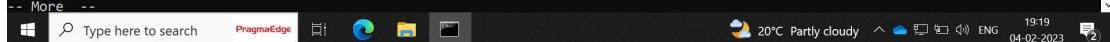
C:\Users\eshwar.l>aws ec2 help
ec2
^^

Description
*****
Amazon Elastic Compute Cloud (Amazon EC2) provides secure and
resizable computing capacity in the Amazon Web Services Cloud. Using
Amazon EC2 eliminates the need to invest in hardware up front, so you
can develop and deploy applications faster. Amazon Virtual Private
Cloud (Amazon VPC) enables you to provision a logically isolated
section of the Amazon Web Services Cloud where you can launch Amazon
Web Services resources in a virtual network that you've defined.
Amazon Elastic Block Store (Amazon EBS) provides block level storage
volumes for use with EC2 instances. EBS volumes are highly available
and reliable storage volumes that can be attached to any running
instance and used like a hard drive.

To learn more, see the following resources:
* Amazon EC2: Amazon EC2 product page , Amazon EC2 documentation
* Amazon EBS: Amazon EBS product page , Amazon EBS documentation
```



```
cmd Command Prompt - aws ec2 help
Available Commands
*****
* accept-address-transfer
* accept-reserved-instances-exchange-quote
* accept-transit-gateway-multicast-domain-associations
* accept-transit-gateway-peering-attachment
* accept-transit-gateway-vpc-attachment
* accept-vpc-endpoint-connections
* accept-vpc-peering-connection
* advertise-byoip-cidr
* allocate-address
* allocate-hosts
* allocate-ipam-pool-cidr
* apply-security-groups-to-client-vpn-target-network
* assign-ipv6-addresses
-- More --
-- More --
```



```
Command Prompt - aws ec2 help
* apply-security-groups-to-client-vpn-target-network
* assign-ipv6-addresses
* assign-private-ip-addresses
* assign-private-nat-gateway-address
* associate-address
* associate-client-vpn-target-network
* associate-dhcp-options
* associate-enclave-certificate-iam-role
* associate-iam-instance-profile
* associate-instance-event-window
* associate-ipam-resource-discovery
* associate-nat-gateway-address
* associate-route-table
* associate-subnet-cidr-block
* associate-transit-gateway-multicast-domain
-- More --
-- More --
```

The screenshot shows the AWS IAM Management Console with the URL <https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/users>. The left sidebar includes links for Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers, Account settings), Access reports (Access analyzer, Archive rules, Analyzers, Settings), Credential report, Organization activity, and Service control policies (SCPs). The main content area displays a table titled "Users (6) Info" with columns: User name, Groups, Last activity, MFA, Password age, and Active key age. The table lists six users: awsuser, osdCcs/Admin, readonly, Rohith, terraformuser, and testuser. The "Last activity" column shows dates ranging from 19 days ago to Yesterday. The "Active key age" column shows values like 19 days ago, Yesterday, and -.

User name	Groups	Last activity	MFA	Password age	Active key age
awsuser	None	19 days ago	None	129 days ago	19 days ago
osdCcs/Admin	None	19 days ago	None	None	19 days ago
readonly	None	Yesterday	None	Yesterday	-
Rohith	None	Yesterday	None	Yesterday	-
terraformuser	None	10 days ago	None	None	101 days ago
testuser	None	Yesterday	None	Yesterday	-

Specify user details

User details

User name: AWSCLI

Enable console access - optional: Enables a password that allows users to sign in to the AWS Management Console.

Console password:

Autogenerated password:
You can view the password after you create the user.

Custom password:
Enter a custom password for the user.
.....

Must be at least 8 characters long
Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # \$ % ^ & * { } _ - (hyphen) = [] { } |

Show password:

Users must create a new password at next sign-in (recommended).
Users automatically get the IAMUserChangePassword policy to allow them to change their own password.

For programmatic access, you can generate access keys after you create the user. [Learn more](#)

Feedback Language

Identity and Access Management (IAM)

Users

Users (7) info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Add users

User name	Groups	Last activity	MFA	Password age	Active key age
AWSCLI	None	Never	None	None	-
awsuser	None	19 days ago	None	129 days ago	19 days ago
osdCcsAdmin	None	19 days ago	None	None	19 days ago
readonly	None	Yesterday	None	Yesterday	-
Rohith	None	Yesterday	None	Yesterday	-
terraformuser	None	10 days ago	None	None	102 days ago
testuser	None	Yesterday	None	Yesterday	-

Related consoles

<https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#users/details/AWSCLI>

Add permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Add user to group
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

Copy permissions
Copy all group memberships, attached managed policies, inline policies, and any existing permissions boundaries from an existing user.

Attach policies directly
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

Permissions policies (1/1056)

Policy name	Type	Attached entities
AdministratorAccess	AWS managed - job function	4
AccessAnalyzerServiceRolePolicy	AWS managed	0
AdministratorAccess-Amplify	AWS managed	0
AdministratorAccess-AWSElasticBeanstalk	AWS managed	0
AlexaForBusinessDeviceSetup	AWS managed	0
AlexaForBusinessFullAccess	AWS managed	0

Feedback Language Type here to search PragmaEdge 20°C Partly cloudy 19:29 04-02-2023

Identity and Access Management (IAM)

1 policy added

arn:aws:iam::789576624500:user/AWSCLI

Enabled without MFA

Created: February 04, 2023, 19:27 (UTC+05:30)

Last console sign-in: Never

Not enabled

Access key 2: Not enabled

Permissions Groups Tags Security credentials Access Advisor

Console sign-in

Console sign-in link: <https://789576624500.signin.aws.amazon.com/console>

Console password: Updated 3 minutes ago (2023-02-04 19:27 GMT+5:30)

Last console sign-in: Never

Multi-factor authentication (MFA) (0)

No MFA devices. Assign an MFA device to improve the security of your AWS environment

Remove Resync Assign MFA device

Device type Identifier Created on

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Identity and Access Management (IAM)

1 policy added

No MFA devices. Assign an MFA device to improve the security of your AWS environment [Assign MFA device](#)

Access keys (0)
Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time. [Learn more](#)

[Create access key](#)

No access keys
As a best practice, avoid using long-term credentials like access keys. Instead, use tools which provide short term credentials. [Learn more](#)

[Create access key](#)

SSH public keys for AWS CodeCommit (0)
User SSH public keys to authenticate access to AWS CodeCommit repositories. You can have a maximum of two SSH public keys (active or inactive) at a time. [Learn more](#)

[Actions](#) [Upload SSH public key](#)

SSS Key ID	Uploaded	Status
------------	----------	--------

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20°C Partly cloudy 19:30 04-02-2023

Access key best practices & alternatives
Avoid using long-term credentials like access keys to improve your security. Consider the following use cases and alternatives.

Command Line Interface (CLI)
You plan to use this access key to enable the AWS CLI to access your AWS account.

Local code
You plan to use this access key to enable application code in a local development environment to access your AWS account.

Application running on an AWS compute service
You plan to use this access key to enable application code running on an AWS compute service like Amazon EC2, Amazon ECS, or AWS Lambda to access your AWS account.

Third-party service
You plan to use this access key to enable access for a third-party application or service that monitors or manages your AWS resources.

Application running outside AWS
You plan to use this access key to enable an application running on an on-premises host, or to use a local AWS client or third-party AWS plugin.

Other
Your use case is not listed here.

Alternatives recommended
- Use AWS CloudShell, a browser-based CLI, to run commands. [Learn more](#)

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The screenshot shows the AWS IAM Management Console in a web browser. The URL is <https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/users/details/AWSCLI/create-access-key>. The page is titled "Set description tag - optional". It includes a note: "The description for this access key will be attached to this user as a tag and shown alongside the access key." A text input field for "Description tag value" is present, with the placeholder "Describe the purpose of this access key and where it will be used. A good description will help you rotate this access key confidently later." Below the input field is a note: "Maximum 256 characters. Allowed characters are letters, numbers, spaces representable in UTF-8, and: _ . / = + - @". At the bottom are "Cancel", "Previous", and "Create access key" buttons.

The screenshot shows the AWS IAM Management Console after creating an access key. The URL is the same as the previous screenshot. A green header bar says "Access key created" with the note: "This is the only time that the secret access key can be viewed or downloaded. You cannot recover it later. However, you can create a new access key any time." Below this, the "Retrieve access keys" section shows the newly created access key details: "Access key" is AKIA3PVTFF204CHJMLJ and "Secret access key" is displayed as a series of asterisks. The "Access key best practices" section lists: "Never store your access key in plain text, in a code repository, or in code.", "Disable or delete access key when no longer needed.", "Enable least-privilege permissions.", and "Rotate access keys regularly." At the bottom are "Download .csv file" and "Done" buttons.

```
Command Prompt - aws configure
^C
C:\Users\eshwar.l>aws ec2 describe-instances
You must specify a region. You can also configure your region by running "aws configure".
C:\Users\eshwar.l>aws configure
AWS Access Key ID [None]: AKIA3PVTFF204CHJMLJ
AWS Secret Access Key [None]: /YxVFws/mcb+gwxQEYlvRn4w1d9ceNMu_
```

```
Select Command Prompt - aws ec2 describe-instances
C:\Users\eshwar.l>aws ec2 describe-instances
{
  "Reservations": [
    {
      "Groups": [],
      "Instances": [
        {
          "AmiLaunchIndex": 0,
          "ImageId": "ami-07ffb2f4d65357b42",
          "InstanceId": "i-02237e71c102ecf0f",
          "InstanceType": "t2.small",
          "KeyName": "windows",
          "LaunchTime": "2022-12-14T06:08:10+00:00",
          "Monitoring": {
            "State": "disabled"
          },
          "Placement": {
            "AvailabilityZone": "ap-south-1a",
            "GroupName": "",
            "Tenancy": "default"
          },
          "PrivateDnsName": "ip-172-31-36-32.ap-south-1.compute.internal",
          "PrivateIpAddress": "172.31.36.32",
          "ProductCodes": [],
          "PublicDnsName": "",
          "State": {
            "Code": 80,
            "Name": "stopped"
          },
          "StateTransitionReason": "User initiated (2022-12-14 06:22:15 GMT)",
          "SubnetId": "subnet-07189b6fe82ff443a",
          "BlockDeviceMappings": []
        }
      ]
    }
  ]
}
```

```
Command Prompt
C:\Users\eshwar.l>cd .aws
C:\Users\eshwar.l\.aws>dir
Volume in drive C has no label.
Volume Serial Number is 7A3B-E97C

Directory of C:\Users\eshwar.l\.aws

04-02-2023 19:32    <DIR>      .
04-02-2023 19:32    <DIR>      ..
04-02-2023 19:32           32 config
04-02-2023 19:32           119 credentials
          2 File(s)       151 bytes
          2 Dir(s)  186,121,900,032 bytes free

C:\Users\eshwar.l\.aws>
```

```
Command Prompt
C:\Users\eshwar.l>cd .aws
C:\Users\eshwar.l\.aws>dir
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Directory of C:\Users\eshwar.l\.aws

04-02-2023 19:32    <DIR>      .
04-02-2023 19:32    <DIR>      ..
04-02-2023 19:32           32 config
04-02-2023 19:32           119 credentials
          2 File(s)       151 bytes
          2 Dir(s)  186,121,900,032 bytes free

C:\Users\eshwar.l\.aws>notepad config
```

config - Notepad

```
[default]
region = ap-south-1
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8

C:\Users\eshwar.l>cd .aws
C:\Users\eshwar.l\.aws>dir
Volume in drive C has no label.
Volume Serial Number is 7A3B-E97C
Directory of C:\Users\eshwar.l\.aws
04-02-2023 19:32 <DIR> .
04-02-2023 19:32 <DIR> ..
04-02-2023 19:32 32 config
04-02-2023 19:32 119 credentials
04-02-2023 19:32 2 File(s) 151 byte
04-02-2023 19:32 2 Dir(s) 186,121,900,032 bytes
C:\Users\eshwar.l\.aws>notepad config
C:\Users\eshwar.l\.aws>notepad credentials
C:\Users\eshwar.l\.aws>

credentials - Notepad

```
[default]  
aws_access_key_id = AKIA3PVTFF204CHJML3  
aws_secret_access_key = /YxVFws/mcb+gwXQEy1vRn4w1d
```

File Edit Format View Help

Ln 3, Col 51 100% Windows (CRLF) UTF-8

Type here to search PragmaEdge 20°C Partly cloudy 19:35 ENG 04-02-2023

Select Command Prompt
--debug
C:\Users\eshwar.l>aws ec2 services.
usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:
aws help
aws <command> help
aws <command> <subcommand> help
aws: error: argument operation: Invalid choice, valid choices are:
accept-address-transfer | accept-reserved-instances-exchange-quote
accept-transit-gateway-multicast-domain-associations | accept-transit-gateway-peering-attachment
accept-transit-gateway-vpc-attachment | accept-vpc-endpoint-connections
accept-vpc-peering-connection | advertise-byovip-cidr
allocate-address | allocate-hosts
allocate-ipam-pool-cidr | apply-security-groups-to-client-vpn-target-network
assign-ipv6-addresses | assign-private-ip-addresses
assign-private-nat-gateway-address | associate-address
associate-client-vpn-target-network | associate-dhcp-options
associate-enclave-certificate-iam-role | associate-iam-instance-profile
associate-instance-event-window | associate-ipam-resource-discovery
associate-nat-gateway-address | associate-route-table
associate-subnet-cidr-block | associate-transit-gateway-multicast-domain
associate-transit-gateway-policy-table | associate-transit-gateway-route-table
associate-trunk-interface | associate-vpc-cidr-block
attach-classic-link-vpc | attach-internet-gateway
attach-network-interface | attach-verified-access-trust-provider
attach-volume | attach-vpn-gateway
authorize-client-vpn-ingress | authorize-security-group-egress
terminate-client-vpn-connections | terminate-instances

Type here to search PragmaEdge 20°C Partly cloudy 19:37 ENG 04-02-2023

```
cmd Select Command Prompt - aws ec2 run-instances help
  --debug

C:\Users\eshwar.l>aws ec2 run-instances help

run-instances
^^^^^^^^^^^^^

Description
*****
Launches the specified number of instances using an AMI for which you have permissions.

You can specify a number of options, or leave the default options. The following rules apply:

* [EC2-VPC] If you don't specify a subnet ID, we choose a default subnet from your default VPC for you. If you don't have a default VPC, you must specify a subnet ID in the request.

* [EC2-Classic] If don't specify an Availability Zone, we choose one for you.

* Some instance types must be launched into a VPC. If you do not have a default VPC, or if you do not specify a subnet ID, the request fails. For more information, see Instance types available only in a VPC .

* [EC2-VPC] All instances have a network interface with a primary private IPv4 address. If you don't specify this address, we choose one from the IPv4 range of your subnet.

Windows Taskbar: Type here to search PragmaEdge 20°C Partly cloudy 19:41 04-02-2023
```

```
cmd Command Prompt - aws ec2 run-instances help
See also: AWS API Documentation

Synopsis
*****
run-instances
[--block-device-mappings <value>]
[--image-id <value>]
[--instance-type <value>]
[--ipv6-address-count <value>]
[--ipv6-addresses <value>]
[--kernel-id <value>]
[--key-name <value>]
[--monitoring <value>]
[--placement <value>]
[--ramdisk-id <value>]
[--security-group-ids <value>]
[--security-groups <value>]
[--subnet-id <value>]
[--user-data <value>]
[--additional-info <value>]
[--client-token <value>]
[--disable-api-termination | --enable-api-termination]
[--dry-run | --no-dry-run]
[--ebs-optimized | --no-ebs-optimized]
[--iam-instance-profile <value>]
[--instance-initiated-shutdown-behavior <value>]
[--network-interfaces <value>]
[--private-ip-address <value>]
[--elastic-gpu-specification <value>]
[--elastic-inference-accelerators <value>]
[--hibernation-options <value>]

Windows Taskbar: Type here to search PragmaEdge 20°C Partly cloudy 19:41 04-02-2023
```

```

Select Command Prompt - aws ec2 run-instances --image-id ami-074dc0a6f6c764218 --instance-type t2.small --security-group-ids sg-0acbe6b96f93a29c6 --subnet-id subnet-07189bfe82ff443a --count... - - - 
C:\Users\eshwar.1\aws ec2 run-instances --image-id ami-074dc0a6f6c764218 --instance-type t2.small --security-group-ids sg-0acbe6b96f93a29c6 --subnet-id bffe82ff443a --count 1 --key-name windows
{
    "Groups": [],
    "Instances": [
        {
            "AmiLaunchIndex": 0,
            "ImageId": "ami-074dc0a6f6c764218",
            "InstanceId": "i-073c638fabd987c82",
            "InstanceType": "t2.small",
            "KeyName": "windows",
            "LaunchTime": "2023-02-04T14:20:20+00:00",
            "Monitoring": {
                "State": "disabled"
            },
            "Placement": {
                "AvailabilityZone": "ap-south-1a",
                "GroupName": "",
                "Tenancy": "default"
            },
            "PrivateDnsName": "ip-172-31-36-58.ap-south-1.compute.internal",
            "PrivateIpAddress": "172.31.36.58",
            "ProductCodes": [],
            "PublicDnsName": "",
            "State": {
                "Code": 0,
                "Name": "pending"
            },
            "StateTransitionReason": "",
            "SubnetId": "subnet-07189bfe82ff443a",
            "VpcId": "vpc-0ef405c2a37e0f4f",
            "Architecture": "x86_64",
            "BlockDeviceMappings": [],
            "ClientToken": "ff93ba4f-2306-4e56-9082-940bf497c05d",
            "EbsOptimized": false,
            "EnaSupport": true,
            "PrivateIpAddress": "172.31.36.58",
            "StateTransitionReason": ""
        }
    ]
}

```

Windows Start Type here to search PragmaEdge 25°C Partly cloudy ENG 04-02-2023 19:51

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
private-1a	i-0d152c3b817fa3a3e	Stopped	t2.micro	-	No alarms
-	i-073c638fabd987c82	Running	t2.small	Initializing	No alarms
Rohith	i-002b1a6a1ba9f3f56	Stopped	t2.xlarge	-	No alarms
My_Test_Rohith	i-0ba7f70db596e3b8c	Stopped	t2.large	-	No alarms

Instance: i-073c638fabd987c82

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary

Instance ID i-073c638fabd987c82	Public IPv4 address 43.205.194.45 open address	Private IPv4 addresses 172.31.36.58
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-43-205-194-45.ap-south-1.compute.amazonaws.com open address

```
c:\ Select Command Prompt - aws s3 help
{
    "Attachment": {
        "AttachTime": "2023-02-04T14:20:20+00:00",
        "AttachmentId": "eni-attach-000870b0ccb1f8f4e",
    }
^C

C:\Users\eshwar.l>aws s3 help

s3
^^

Description
*****This section explains prominent concepts and notations in the set of
high-level S3 commands provided.

If you are looking for the low level S3 commands for the CLI, please
see the "s3api" command reference page.

Path Argument Type
*****Whenever using a command, at least one path argument must be
specified. There are two types of path arguments: "LocalPath" and
"S3Uri".
"LocalPath": represents the path of a local file or directory. It can
be written as an absolute path or relative path.
"S3Uri": represents the location of a S3 object, prefix, or bucket.
This must be written in the form "s3://mybucket/mykey" where
"mybucket" is the specified S3 bucket, "mykey" is the specified S3
key. The path argument must begin with "s3://" in order to denote
that the path argument refers to a S3 object. Note that prefixes are
example if it's access point "myaccesspoint" to be used has the ARN:

```

Windows Taskbar: Type here to search, PragmaEdge, File Explorer, Edge, File Manager, Task View, Taskbar icons, Weather (25°C Partly cloudy), Network (Wi-Fi), Battery (1953), Language (ENG), Date (04-02-2023), Chat icon.

```
c:\ Select Command Prompt
Available Commands
*****` cp
* ls
* mb
* mv
* presign
* rb
* rm
* sync
* website

C:\Users\eshwar.l>
C:\Users\eshwar.l>
C:\Users\eshwar.l>
C:\Users\eshwar.l>
C:\Users\eshwar.l>aws s3 ls
2022-12-06 12:15:44 autolockingucket
2023-01-31 19:16:03 aws-quickssetup-patchpolicy-789576624500-nlutc
2023-01-31 19:15:15 aws-quickssetup-patchpolicy-access-log-789576624500-nlutc
2022-12-06 21:53:54 replicabucketttt
2022-12-06 12:15:44 websitettt

C:\Users\eshwar.l>
```

Windows Taskbar: Type here to search, PragmaEdge, File Explorer, Edge, File Manager, Task View, Taskbar icons, Weather (25°C Partly cloudy), Network (Wi-Fi), Battery (1955), Language (ENG), Date (04-02-2023), Chat icon.

The screenshot shows the AWS IAM Management Console with the URL <https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/users>. The page displays a list of IAM users with the following details:

User name	Groups	Last activity	MFA	Password age	Active key age
AWSCLI	None	None	None	7 days ago	7 days ago
awsuser	None	None	None	7 days ago	7 days ago
osdCcsAdmin	None	None	None	7 days ago	7 days ago
readonly	None	None	None	7 days ago	7 days ago
Rohith	None	None	None	7 days ago	7 days ago
terraformuser	None	None	None	7 days ago	7 days ago
testuser	None	None	None	7 days ago	7 days ago

The left sidebar shows the navigation menu for IAM management, including Access management, Access reports, and Related consoles. The status bar at the bottom indicates it's 25°C Partly cloudy, 2002, and the date is 04-02-2023.

The screenshot shows the AWS IAM Management Console with the URL <https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/users/details/AWSCLI?section=permissions>. The page displays the detailed information for the user AWSCLI, including:

- Summary:** ARN: arn:aws:iam:789576624500:user/AWSCLI, Console access: Enabled without MFA, Created: February 04, 2023, Last console sign-in: Never.
- Permissions:** Permissions policies (1/2) - Shows two policies attached: AdministratorAccess (AWS managed - job function, Directly) and IAMUserChangePassword (AWS managed, Directly).

The left sidebar shows the navigation menu for IAM management, including Access management, Access reports, and Related consoles. The status bar at the bottom indicates it's 25°C Partly cloudy, 2002, and the date is 04-02-2023.

The screenshot shows the AWS IAM Management Console with the URL <https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/users/details/AWSCLI/add-permissions>. The search bar at the top contains 'ec2'. Below it, a table lists 'Permissions policies (1/1056)' with 38 matches. One policy, 'AmazonEC2FullAccess', is selected and highlighted with a blue border. Other policies listed include 'AmazonEC2ContainerRegistryFullAccess', 'AmazonEC2ContainerRegistryPowerUser', 'AmazonEC2ContainerRegistryReadOnly', 'AmazonEC2ContainerServiceAutoscaleRole', 'AmazonEC2ContainerServiceEventsRole', 'AmazonEC2ContainerServiceforEC2Role', 'AmazonEC2ContainerServiceRole', 'AmazonEC2ReadOnlyAccess', 'AmazonEC2RoleforAWSCodeDeploy', 'AmazonEC2RoleforAWSCodeDeployLimited', and 'AmazonEC2RoleforDataPipelineRole'. The table has columns for 'Policy name', 'Type', and 'Attached entities'. The status bar at the bottom right shows '2003 04-02-2023'.

The screenshot shows a Windows Command Prompt window titled 'Select Command Prompt - aws ec2 describe-instances'. The command 'aws ec2 describe-instances' was run, and the output is displayed. The output shows details about an instance reservation, including the AMI launch index, image ID, instance ID, instance type ('t2.small'), key name ('Windows'), launch time ('2022-12-14T06:08:10+00:00'), monitoring state ('disabled'), placement availability zone ('ap-south-1a'), group name (''), and tenancy ('default'). It also lists private DNS and IP addresses ('ip-172-31-36-32.ap-south-1.compute.internal' and '172.31.36.32'). The 'DeleteOnTermination' field is set to true. The status bar at the bottom right shows '2004 04-02-2023'.

```

Select Command Prompt
},
"StateTransitionReason": "User initiated (2022-12-14 06:22:15 GMT)",
"SubnetId": "subnet-07189b6fe82ff443a",
"VpcId": "vpc-06ef405c2a37e0f4f",
"Architecture": "x86_64",
"BlockDeviceMappings": [
    {
        "deviceName": "/dev/sdal",
        "Ebs": {
            "AttachTime": "2022-12-12T14:55:50+00:00",
            "DeleteOnTermination": true,
            "Status": "attached",
            "VolumeId": "vol-097957ca6889ce6d0"
        }
    }
]
^C

C:\Users\eshwar.l>
C:\Users\eshwar.l>aws s3 ls

An error occurred (AccessDenied) when calling the ListBuckets operation: Access Denied

C:\Users\eshwar.l>

```

The screenshot shows the AWS IAM Management Console interface. A modal window is open over the main dashboard, indicating that a new policy has been added. The modal displays the following details:

- ARN:** arn:aws:iam::789576624500:user/AWSCLI
- Console access:** Enabled without MFA
- Created:** February 04, 2023, 19:27 (UTC+05:30)
- Last console sign-in:** Never
- Access key 1:** AKIA3PVTPE2O4CHJMLJ - Active (Used today, Created today)
- Access key 2:** Not enabled

The main navigation bar shows the user is in the IAM Management Console. The sidebar includes links for Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers), and Access reports (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity, Service control policies (SCPs)). The bottom status bar shows the URL https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/users/details/AWSCLI?section=permissions, the date 04-02-2023, and the time 20:04.

Add permissions

Step 2
Review

Permissions options

Add user to group
Add user to an existing group, or create a new one. We recommend using groups to manage user permissions by job functions. [Learn more](#)

Copy permissions
Copy all group memberships, attached managed policies, inline policies, and any existing permissions boundaries from an existing user.

Attach policies directly
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

Permissions policies (1/1055)

Policy name	Type	Attached entities
AmazonDMSRedshiftS3Role	AWS managed	0
AmazonS3FullAccess	AWS managed	0
AmazonS3ObjectLambdaExecutionRoleP...	AWS managed	0
AmazonS3OutputpostsFullAccess	AWS managed	0
AmazonS3ReadOnlyAccess	AWS managed	0
AmazonS3ReadonlyAccess	AWS managed	0
aws-quickssetup-patchpolicy-baselineoverride...	Customer managed	1
AWSBackupServiceRolePolicyForS3Backup	AWS managed	0

```
C:\Users\eshwar.l> {
  "DeviceName": "/dev/sda1",
  "Ebs": {
    "AttachTime": "2022-12-12T14:55:00+00:00",
    "DeleteOnTermination": true,
    "Status": "attached",
    "VolumeId": "vol-097957ca6809ce6d0"
  }
^C

C:\Users\eshwar.l>aws s3 ls
An error occurred (AccessDenied) when calling the ListBuckets operation: Access Denied

C:\Users\eshwar.l>aws s3 ls
An error occurred (AccessDenied) when calling the ListBuckets operation: Access Denied

C:\Users\eshwar.l>aws s3 ls
2022-12-06 12:15:44 autolockingucket
2023-01-31 19:16:03 aws-quickssetup-patchpolicy-789576624500-nlutc
2023-01-31 19:15:15 aws-quickssetup-patchpolicy-access-log-789576624500-nlutc
2022-12-04 21:53:54 replicabucketttt
2022-12-06 12:15:44 websitettb

C:\Users\eshwar.l>
```

```
cmd Select Command Prompt
[--debug]
[--endpoint-url <value>]
[--no-verify-ssl]
[--no-paginate]
[--output <value>]
[--query <value>]
[--profile <value>]
[--region <value>]
[--version <value>]
[--color <value>]
[--no-sign-request]
[--ca-bundle <value>]
[--cli-read-timeout <value>]
[--cli-connect-timeout <value>]
[--cli-binary-format <value>]
[--no-cli-pager]
[--cli-auto-prompt]
[--no-cli-auto-prompt]

^C

C:\Users\eshwar.lx>aws s3 ls s3://autolockingucket
2022-12-06 12:17:26    238246 eshwari.jpg

C:\Users\eshwar.lx>
```

The screenshot shows the AWS EC2 Management Console interface. The main window displays a table of instances. One instance is selected, showing its detailed configuration. The instance ID is i-073c638fabd987c82, it is running on a t2.small type, and has passed 2/2 checks. The public IPv4 address is 43.205.194.45. The instance summary also lists the private IPv4 address 172.31.36.58 and the public IPv4 DNS name ec2-43-205-194-45.ap-south-1.compute.amazonaws.com.

Connect to instance | EC2 Manager EC2 Instance Connect

<https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-073c638fabd987c82>

```

aws Services Search [Alt+S] Mumbai The Eshwar Kanna ...
AWS CLI version 2, the latest major version of the AWS CLI, is now stable and recommended for general use. For more information, see the AWS CLI version 2 installation instructions at: https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2.html

usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:

  aws help
  aws <command> help
  aws <command> <subcommand> help
aws: error: too few arguments
[ec2-user@ip-172-31-36-58 ~]$ aws s3 ls
Unable to locate credentials. You can configure credentials by running "aws configure".
[ec2-user@ip-172-31-36-58 ~]$ aws configure
[ec2-user@ip-172-31-36-58 ~]$ i-073c638fabd987c82
PublicIPs: 43.205.194.45 PrivateIPs: 172.31.36.58

```

Feedback Looking for language selection? Find it in the new Unified Settings © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences 2010 04-02-2023

Type here to search PragmaEdge 25°C Partly cloudy ENG 04-02-2023

IAM Management Console EC2 Instance Connect https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#roles

Identity and Access Management (IAM)

- Dashboard
- Access management**
 - User groups
 - Users
 - Roles**
 - Policies
 - Identity providers
 - Account settings
- Access reports**
 - Access analyzer
 - Archive rules
 - Analyzers
 - Settings
- Credential report
- Organization activity
- Service control policies (SCPs)
- Related consoles

IAM > Roles

Roles (23) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Role name	Trusted entities	Last acti...
AmazonSSMRoleForInstancesQuickSetup	AWS Service: ec2	Yesterday
AWS-QuickSetup-AutomationRole-ap-south-1-nluc	AWS Service: ssm	4 days ago
AWS-QuickSetup-BaselineOverrides-LambdaRole-nluc	AWS Service: lambda	35 minutes ago
AWS-QuickSetup-EnableExplorer-ap-south-1-nluc	AWS Service: ssm	4 days ago
AWS-QuickSetup-PatchPolicy-RoleForLambda-NT-ap-south-1-nluc	AWS Service: lambda	4 days ago
AWS-QuickSetup-Remediation-AutomationRole-nluc	AWS Service: ssm	40 minutes ago
AWS-QuickSetup-StackSet-Local-AdministrationRole	AWS Service: cloudformation	4 days ago
AWS-QuickSetup-StackSet-Local-ExecutionRole	Account: 789576624500	4 days ago
AWSServiceRoleForAmazonElasticFileSystem	AWS Service: elasticfilesystem (Service-Linked Role)	54 days ago
AWSServiceRoleForAmazonSSM	AWS Service: ssm (Service-Linked Role)	40 minutes ago
AWSServiceRoleForApplicationAutoScaling_DynamoDBTable	AWS Service: dynamodb application-autoscaling (Service-Linked Role)	32 minutes ago
AWSServiceRoleForAWSLicenseManagerRole	AWS Service: license-manager (Service-Linked Role)	44 days ago

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Type here to search PragmaEdge 25°C Partly cloudy ENG 04-02-2023

Screenshot of the AWS IAM Management Console showing the 'Create role' wizard - Step 1: Select trusted entity.

The 'Trusted entity type' section shows the following options:

- AWS service: Allows other AWS services like EC2, Lambda, or others to perform actions in this account.
- AWS account: Allows entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- Web identity: Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
- SAML 2.0 federation: Allows users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- Custom trust policy: Creates a custom trust policy to enable others to perform actions in this account.

The 'Use case' section shows the following options:

- EC2: Allows EC2 instances to call AWS services on your behalf.
- Lambda: Allows Lambda functions to call AWS services on your behalf.

The 'Common use cases' section shows the following options:

- EC2
- Lambda

The 'Next Step' button is visible at the bottom right.

Screenshot of the AWS IAM Management Console showing the 'Create role' wizard - Step 2: Add permissions.

The 'Permissions policies' section shows a list of available policies:

Policy name	Type	Description
aws-quicksupport-patchpolicy-baselineoverrides-s3	Custom...	Custom...
AWSCodePipelineServiceRole-ap-south-1-finalpipeline	Custom...	Policy used in trust relationship with CodePipeline
AWSCodePipelineServiceRole-ap-south-1-finalpipeline1	Custom...	Policy used in trust relationship with CodePipeline
AWSCodePipelineServiceRole-ap-south-1-webpipeline	Custom...	Policy used in trust relationship with CodePipeline
CodeBuildBasePolicy-avscicdbuild-us-east-1	Custom...	Policy used in trust relationship with CodeBuild
CodeBuildBasePolicy-cibuild2022-ap-south-1	Custom...	Policy used in trust relationship with CodeBuild
CodeBuildBasePolicy-ccdbuild2022-ap-south-1	Custom...	Policy used in trust relationship with CodeBuild
CodeBuildBasePolicy-cicdbuildproj-ap-south-1	Custom...	Policy used in trust relationship with CodeBuild
CodeBuildBuildBatchPolicy-awscicdbuild-us-east-1-codebuild-aw...	Custom...	Policy used in trust relationship with CodeBuild
CodeBuildBuildBatchPolicy-cibuild2022-ap-south-1-codebuild-cic...	Custom...	Policy used in trust relationship with CodeBuild
CodeBuildBuildBatchPolicy-cicdbuild2022-ap-south-1-codebuild-c...	Custom...	Policy used in trust relationship with CodeBuild

The 'Next Step' button is visible at the bottom right.

Screenshot of the AWS IAM Management Console showing the creation of a new role. The user is selecting permissions from a list.

Step 3: Name, review, and create

Policy name: "s3"

Attached policies:

- aws-quicksetup-patchpolicy-baselineoverrides-s3
- mys3listpolicy
- s3cr_for_securitytest01buck_0a2393
- s3cr_for_webbuckets01_aebea
- s3replicate_for_securitytest01buck_498d99
- s3replicate_for_webbuckets01_tc10a8
- AmazonDMSRedshiftS3Role
- AmazonS3FullAccess** (selected)
- QuickSightAccessForS3StorageManagementAnalyticsReadOnly
- AmazonS3ReadOnlyAccess
- AmazonS3OutpostsFullAccess
- AWSBackupServiceRolePolicyForS3Backup
- AWSBackupServiceRolePolicyForS3Restore
- AmazonS3ObjectLambdaExecutionRolePolicy

Permissions policy summary:

```

11     "ec2.amazonaws.com"
12     }
13   }
14 }
15 ]
16 []

```

Tags:

Add tags - optional info
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource

Add tag You can add up to 50 more tags.

Create role

The screenshot shows the AWS EC2 Instances page. A single instance, **i-073c638fabd987c82**, is listed as **Running**. The instance type is **t2.small**. The Actions menu is open, with the **Modify IAM role** option highlighted.

Instance: i-073c638fabd987c82

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary

Instance ID	Public IPv4 address	Private IPv4 addresses
i-073c638fabd987c82	43.205.194.45 open address	172.31.36.58
IPv6 address	Instance state	Public IPv6 DNS
-	Running	ec2-43-205-194-45.ap-south-1.compute.amazonaws.com open address

The screenshot shows the 'Modify IAM role' dialog box. It displays two IAM roles: **No IAM Role** (selected) and **AmazonSSMRoleForInstancesQuickSetup**. A warning message states: **If you choose No IAM Role, any IAM role that is currently attached to the instance will be removed. Are you sure you want to remove from the selected instance?** At the bottom are **Cancel** and **Update IAM role** buttons.

No IAM Role
Choose this option to detach an IAM role

AmazonSSMRoleForInstancesQuickSetup
arn:aws:iam::789576624500:instance-profile/AmazonSSMRoleForInstancesQuickSetup

ec2tos3
arn:aws:iam::789576624500:instance-profile/ec2tos3

Choose IAM role | **Create new IAM role**

⚠ If you choose No IAM Role, any IAM role that is currently attached to the instance will be removed. Are you sure you want to remove from the selected instance?

Cancel | **Update IAM role**

A screenshot of a Windows desktop environment. At the top, there is a taskbar with several icons: Start, File Explorer, Edge browser, Task View, File History, Task Scheduler, Task Manager, and File Explorer again. Below the taskbar, a terminal window titled "aws" is open, showing AWS CLI command history. The terminal output includes:

```
Unable to locate credentials. You can configure credentials by running "aws configure".
[ec2-user@ip-172-31-36-58 ~]$ aws
Note: AWS CLI version 2, the latest major version of the AWS CLI, is now stable and recommended for general use. For more information, see the AWS CLI version 2 installation instructions at: https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2.html

usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:

  aws help
  aws <command> help
  aws <command> <subcommand> help
aws: error: too few arguments
[ec2-user@ip-172-31-36-58 ~]$ aws s3 ls
Unable to locate credentials. You can configure credentials by running "aws configure".
[ec2-user@ip-172-31-36-58 ~]$ aws s3 ls
2022-12-06 06:16:58 autolockingbucket
2023-01-31 13:46:00 aws-quickssetup-patchpolicy-789576624500-nlutc
2023-01-31 13:44:47 aws-quickssetup-patchpolicy-access-log-789576624500-nlutc
2022-12-04 16:22:20 replicabucketttt
2022-12-05 09:51:48 websitebb
[ec2-user@ip-172-31-36-58 ~]$
```

Below the terminal, the command `i-073c638fabd987c82` is typed. At the bottom of the screen, the Windows Start button, a search bar containing "Type here to search", and the PragmaEdge logo are visible.