

LAB 2

Terraform AWS provide and IAM user setting

Creating a new IAM user for CLI.

STEP 1: Create a new use by going in services > IAM > create a new user.

User details

User name
user-cli
The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)

☒ Provide user access to the AWS Management Console - *optional*
If you're providing console access to a person, it's a [best practice](#) to manage their access in IAM Identity Center.

Are you providing console access to a person?

User type

☐ Specify a user in Identity Center - Recommended
We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.

☒ I want to create an IAM user
We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.

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.

Info If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. [Learn more](#)

STEP 2: Give the administration access to the user.

Set 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](#)

Permissions options

☐ 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, and inline policies 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 (1/1171) [Refresh](#) [Create policy](#)

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

Search Filter by Type

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	AccessAnalyzerServiceRolePolicy	AWS managed	0
<input checked="" type="checkbox"/>	AdministratorAccess	AWS managed - job function	1

STEP 3: Generate the access and security key under the security credentials , select the CLI as use case and give confirmation then click on next.

Access key best practices & alternatives Info

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

Use case

☒ **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 authenticate workloads running in your data center or other infrastructure outside of AWS that needs to access your AWS resources.

☐ **Other**
Your use case is not listed here.

 **Alternatives recommended**

- Use [AWS CloudShell](#), a browser-based CLI, to run commands. [Learn more](#)
- Use the [AWS CLI V2](#) and enable authentication through a user in IAM Identity Center. [Learn more](#)

Confirmation

☒ I understand the above recommendation and want to proceed to create an access key.



Cancel Next

STEP 4: Save the access and security key under the security credentials which will be used later to connect with terraform.

Retrieve access keys Info

Access key

If you lose or forget your secret access key, you cannot retrieve it. Instead, create a new access key and make the old key inactive.

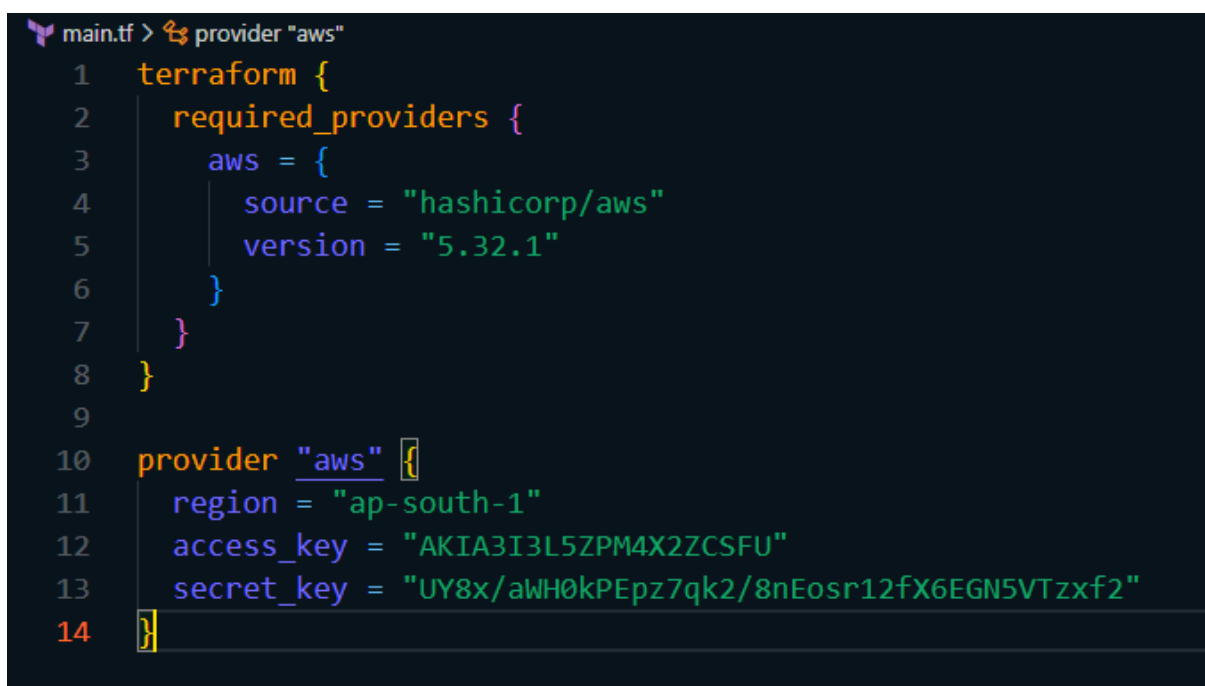
Access key	Secret access key
 AKIA3I3L5ZPMTAXRCRNR	 ***** Show

Configuring terraform

STEP 1: Create a new Directory.



STEP 2: Create terraform configuration file (main.tf)



STEP 3: Initialize terraform using 'terraform init' command.

