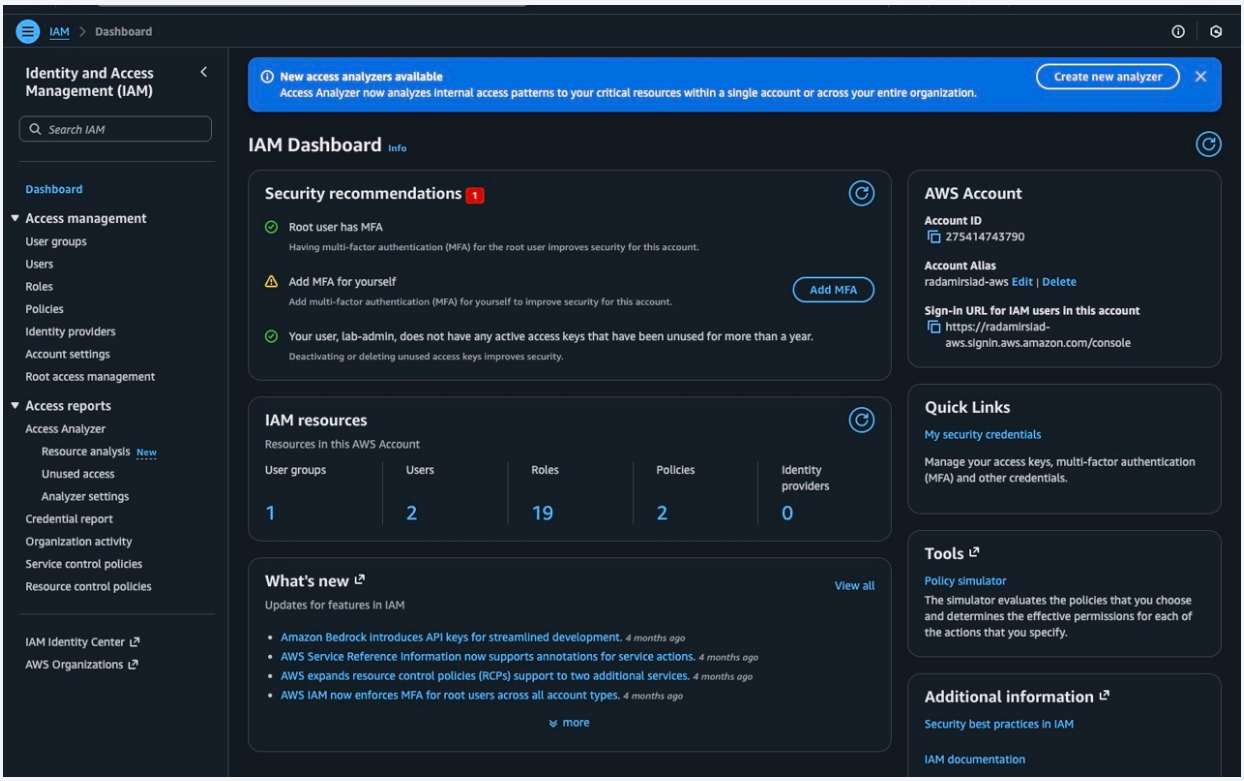
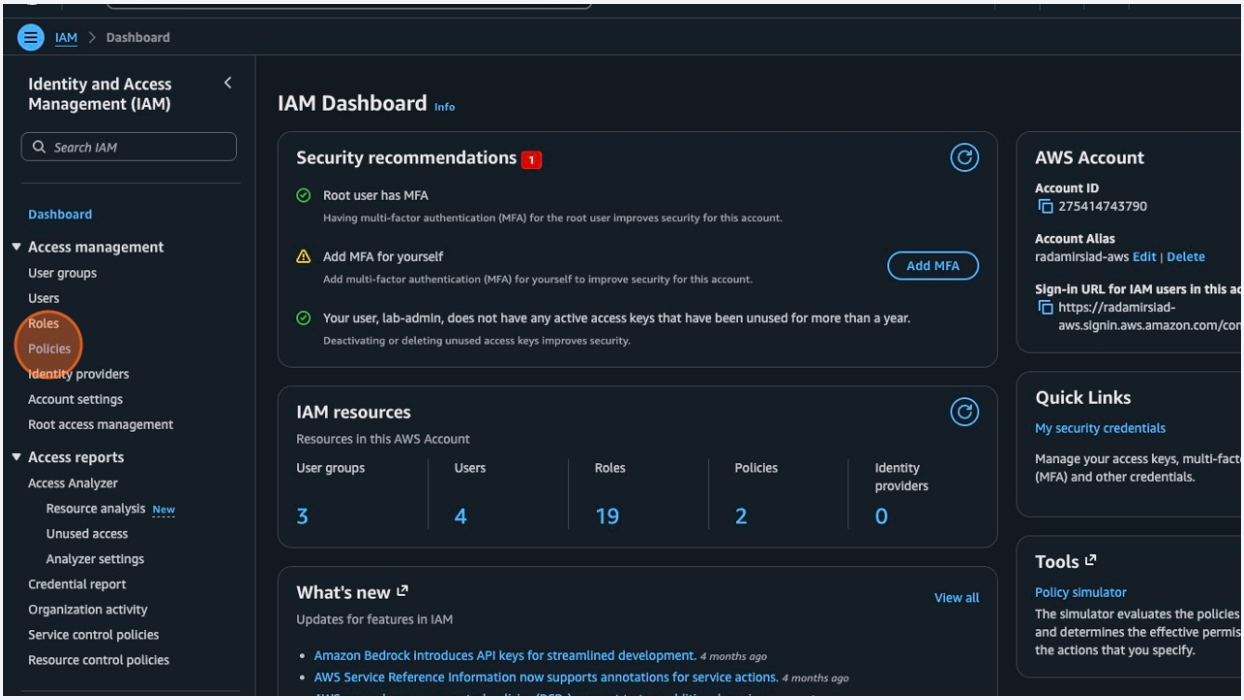
Provisioning/Deprovisioning AWS user groups using PowerShell scripts

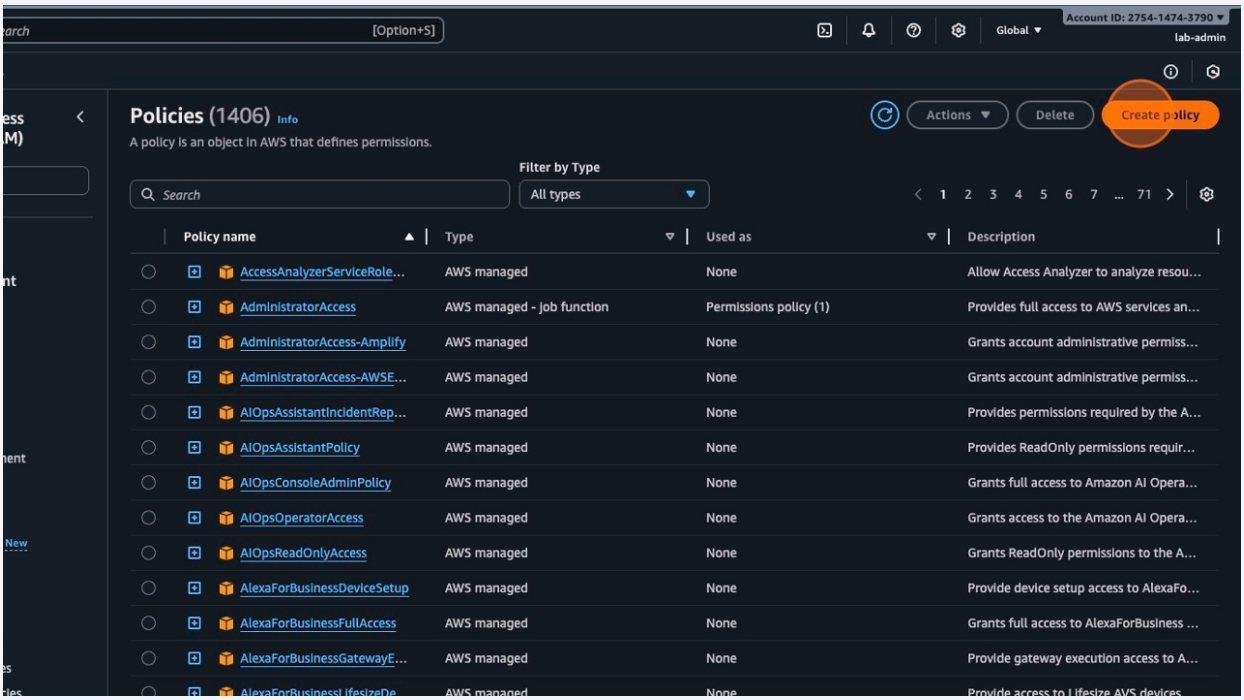
1 Navigate to https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-2#/home



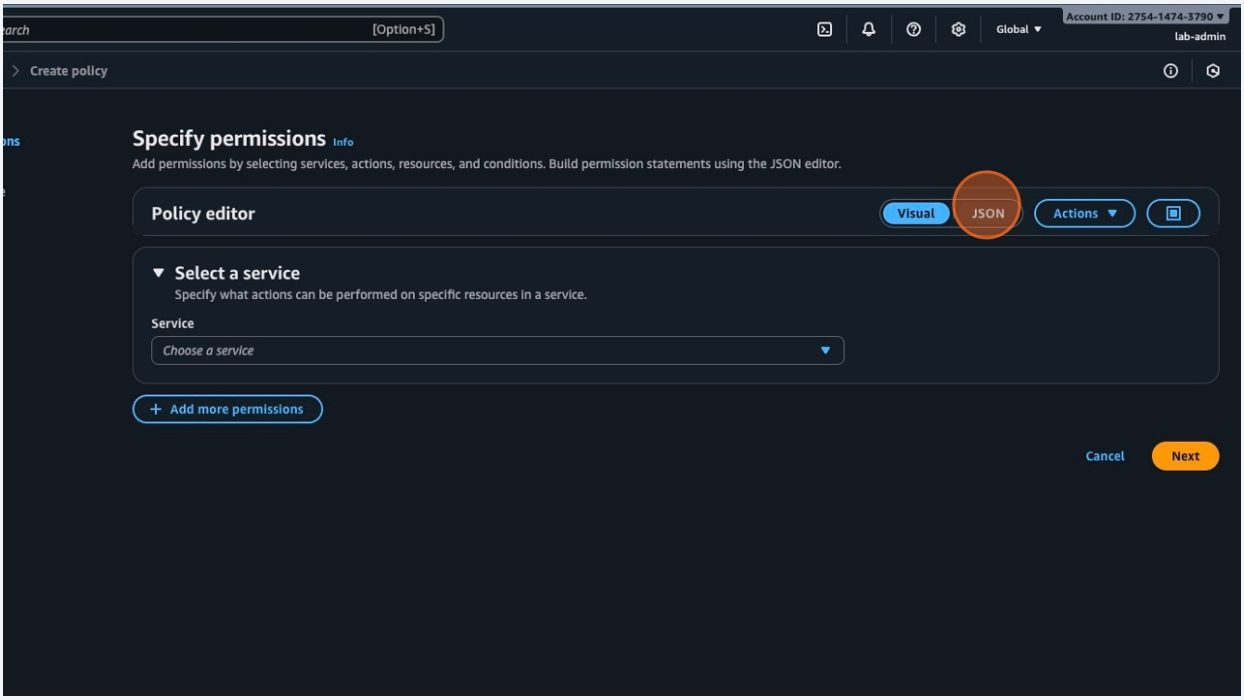
2 Click "Policies"



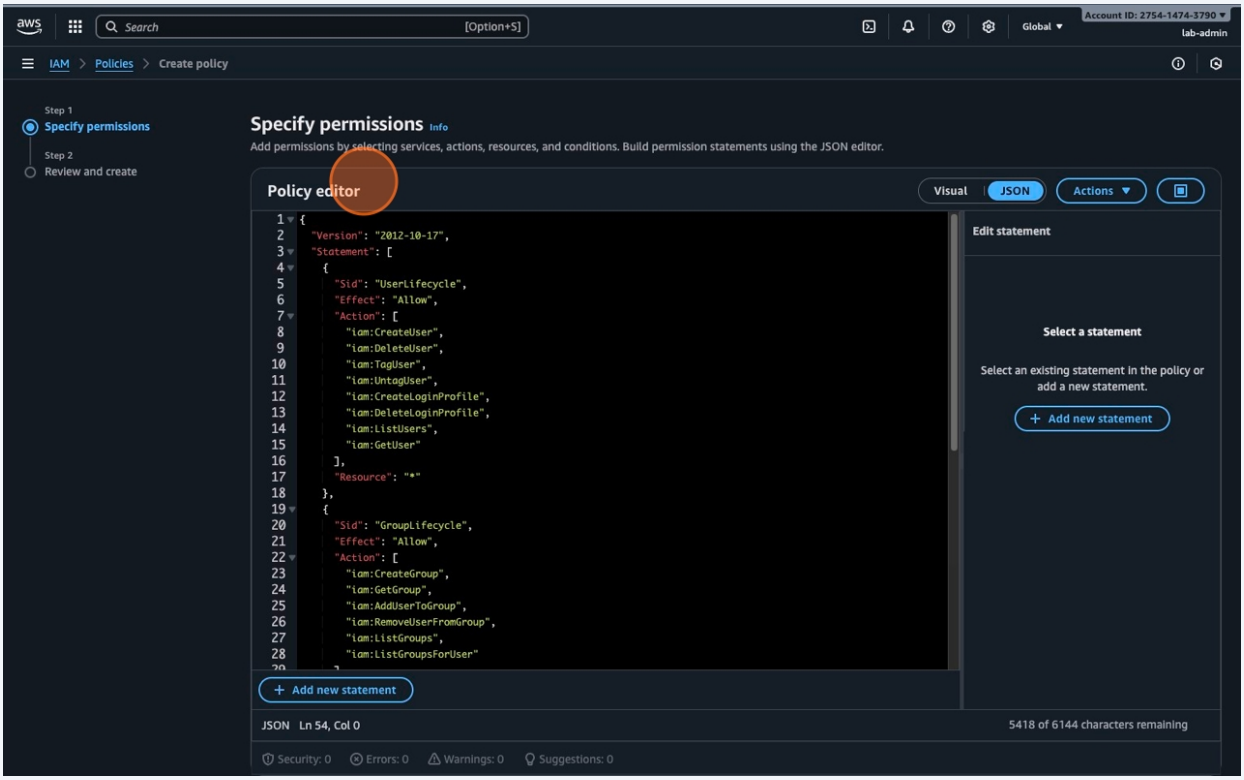
3 Click "Create policy"



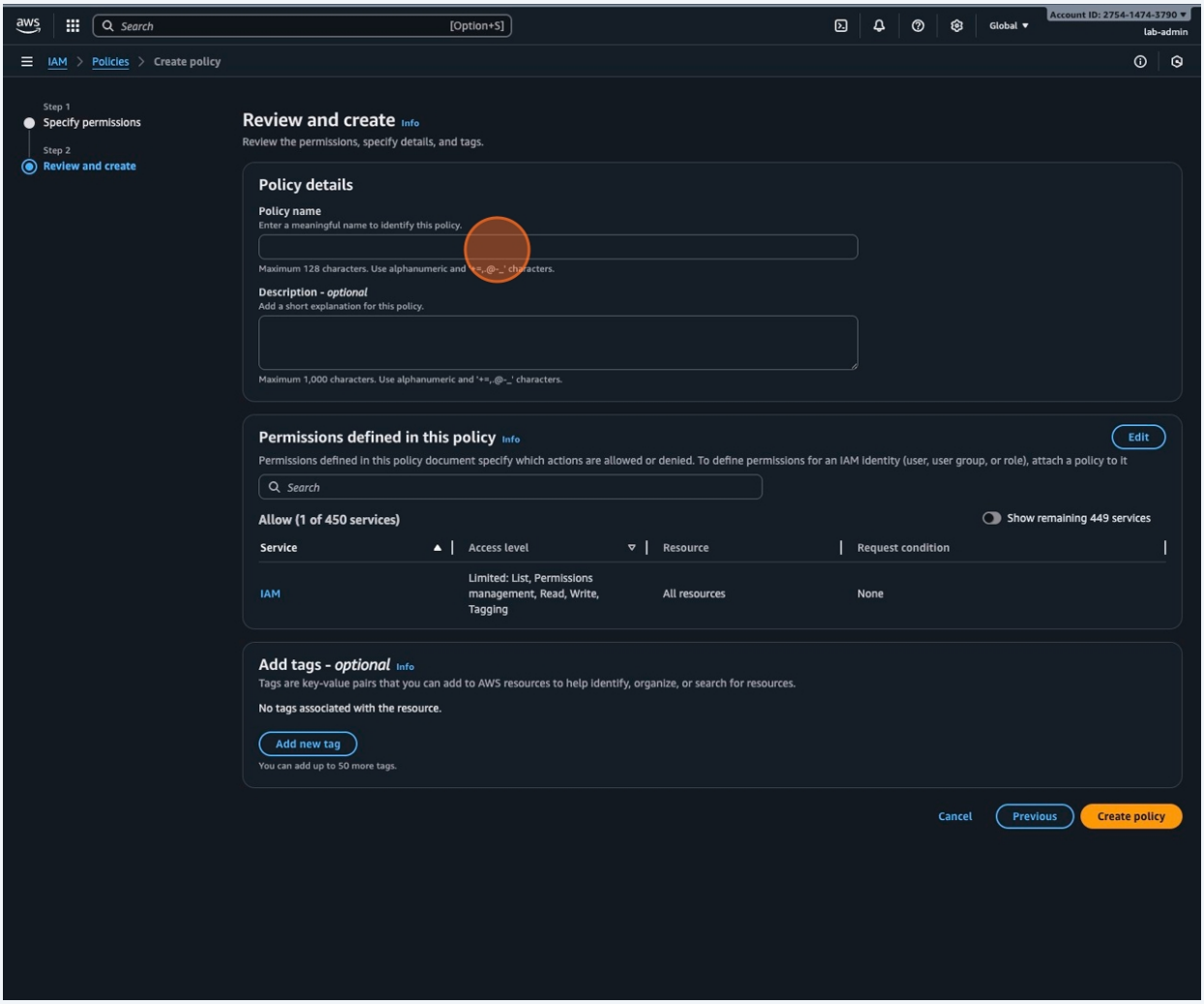
4 Click "JSON"



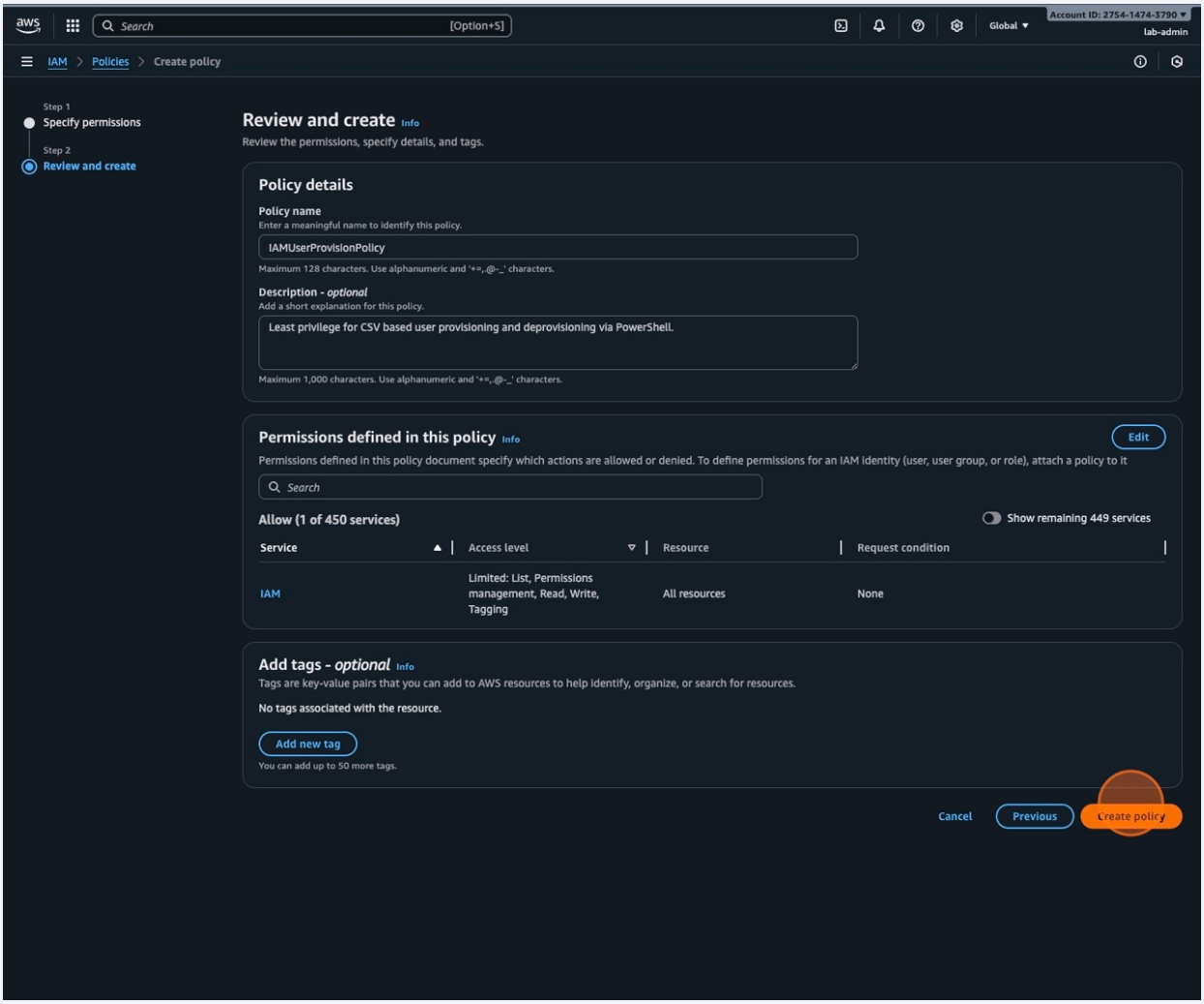
5 Add the JSON policy



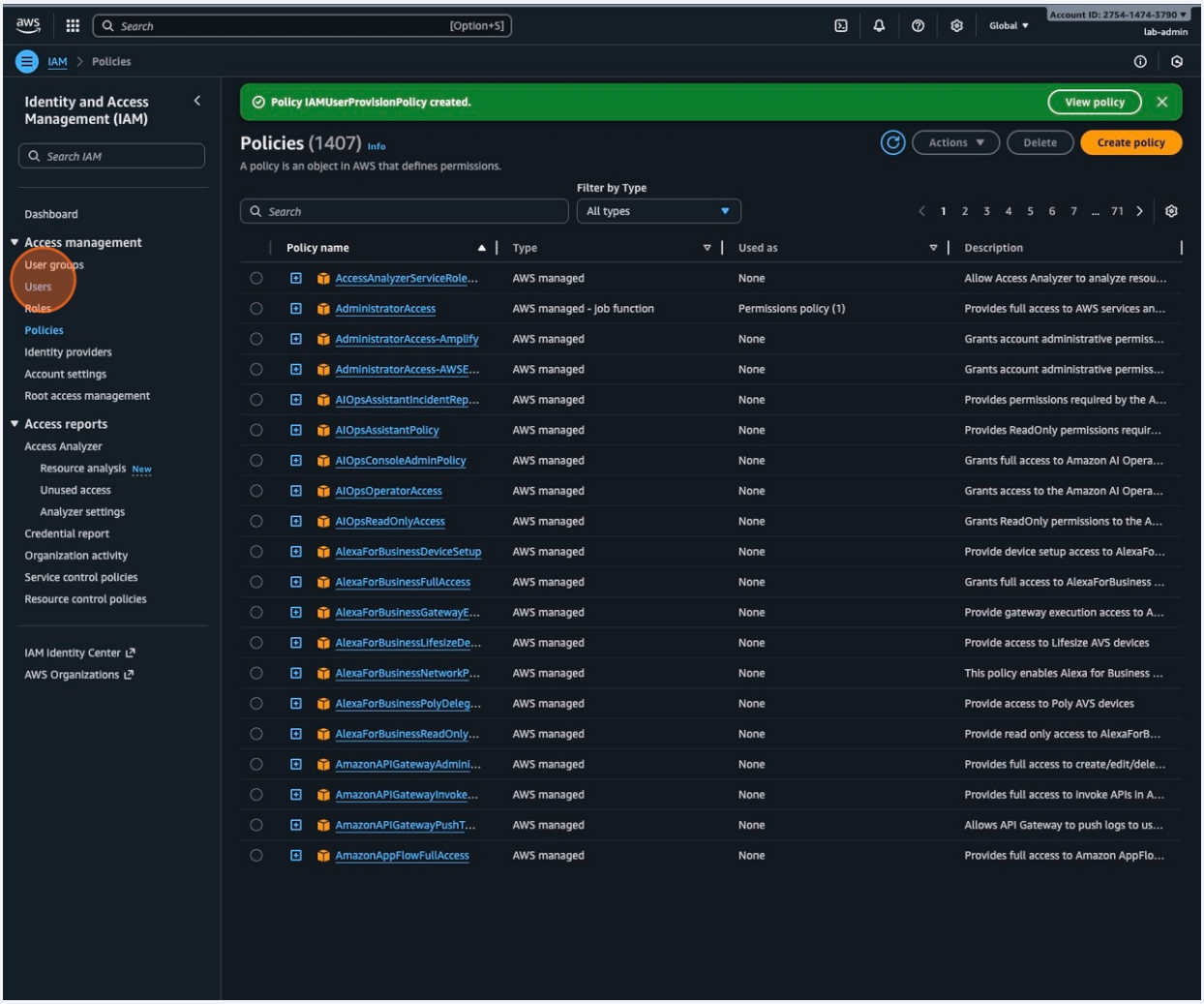
6 Click the "Policy name" field. Name the policy



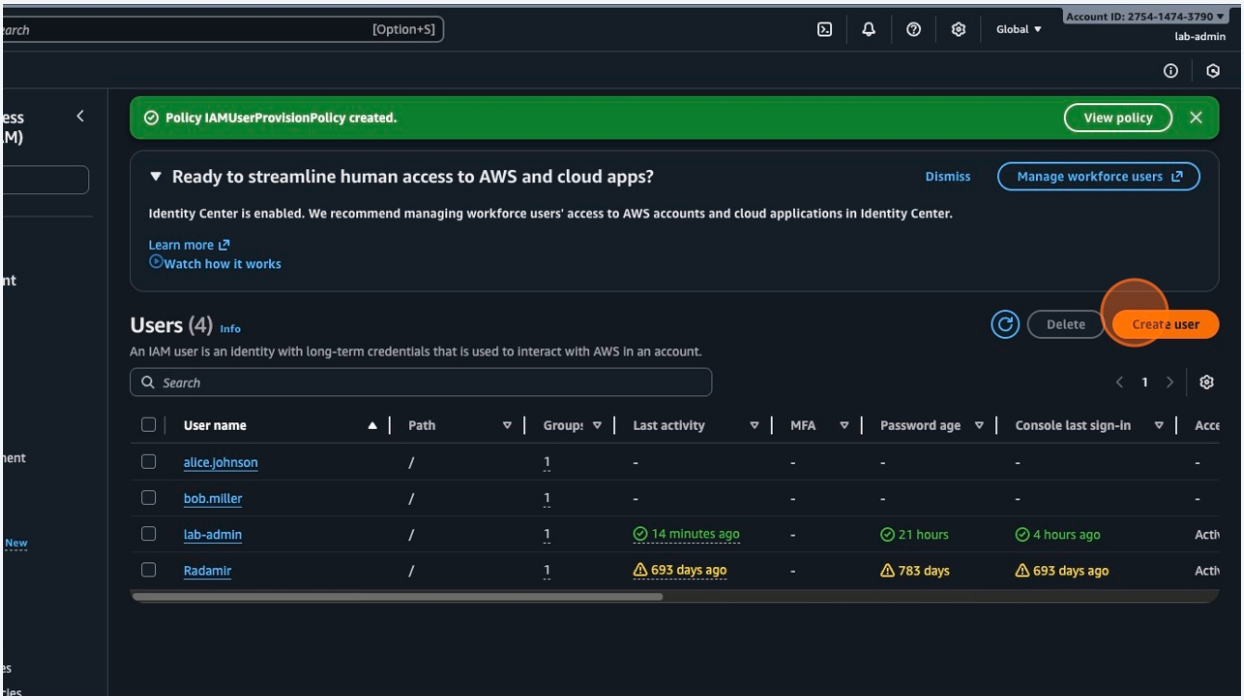
7 Click "Create policy"



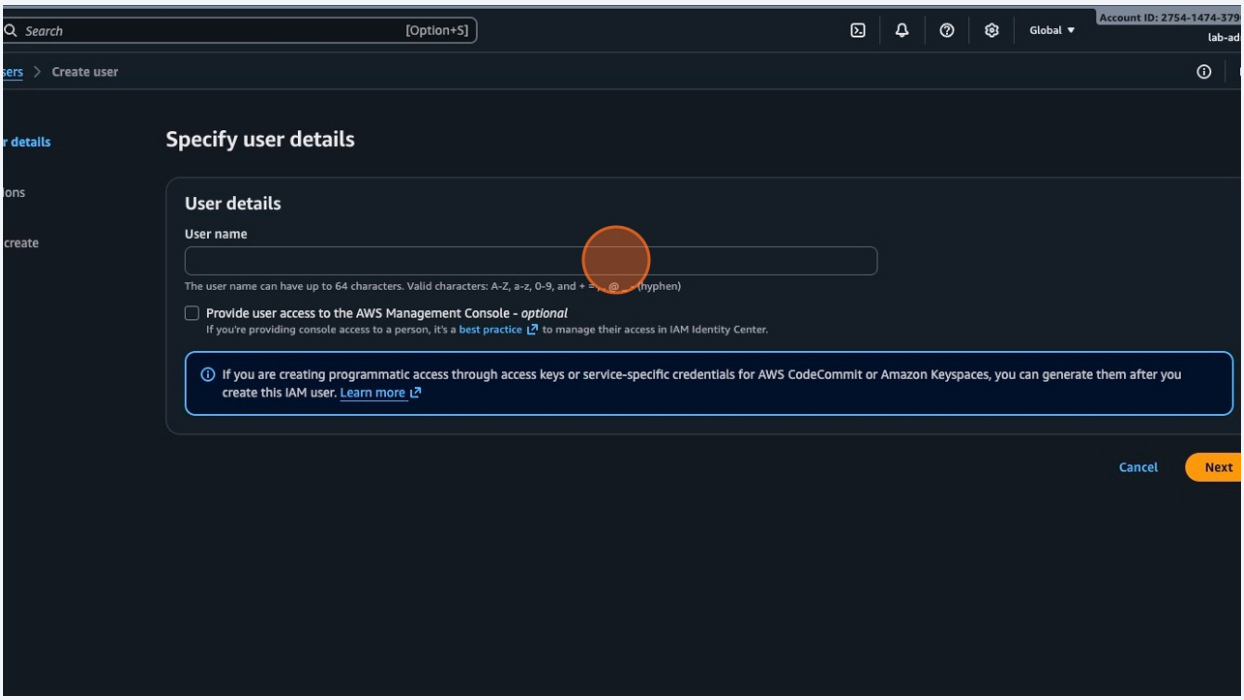
8 Click "Users"



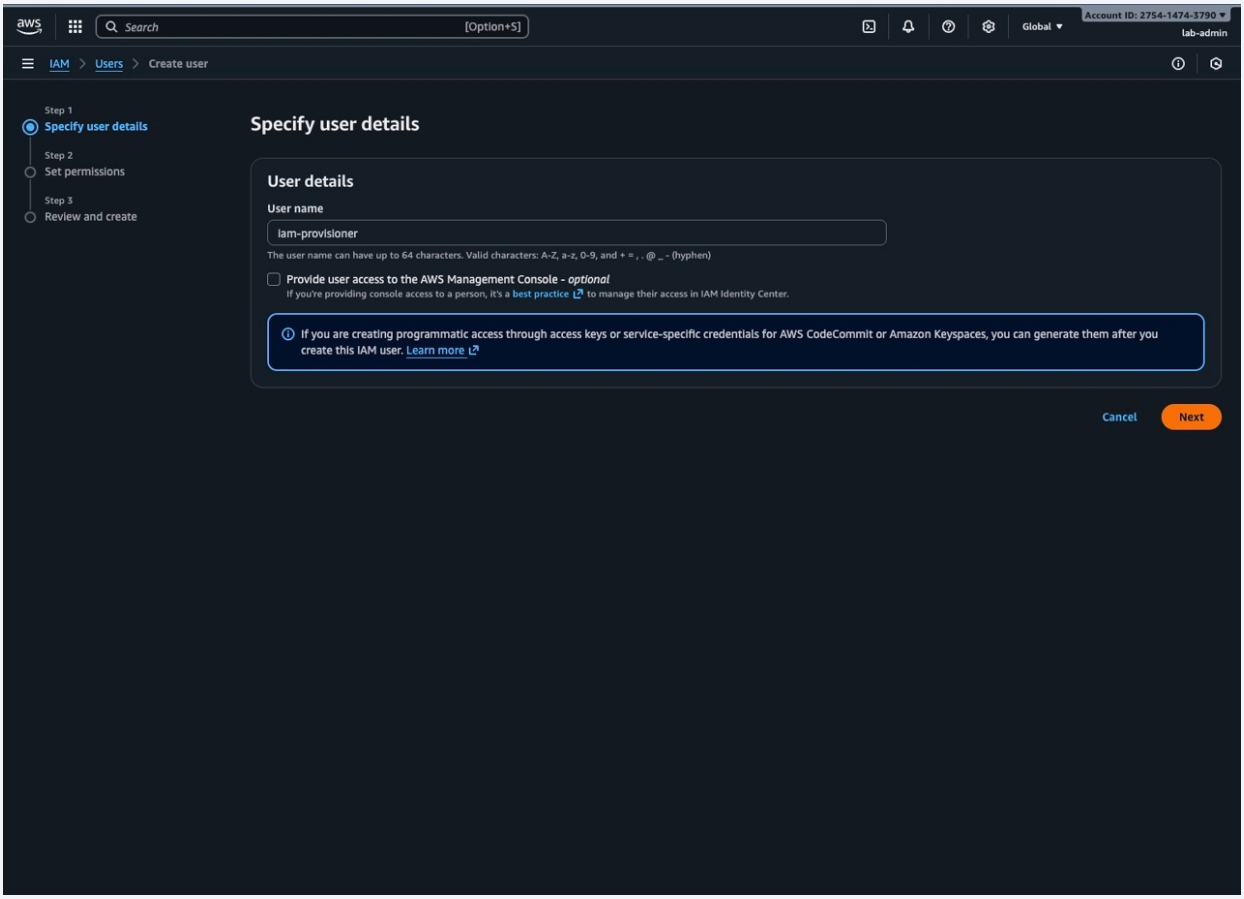
9 Click "Create user"



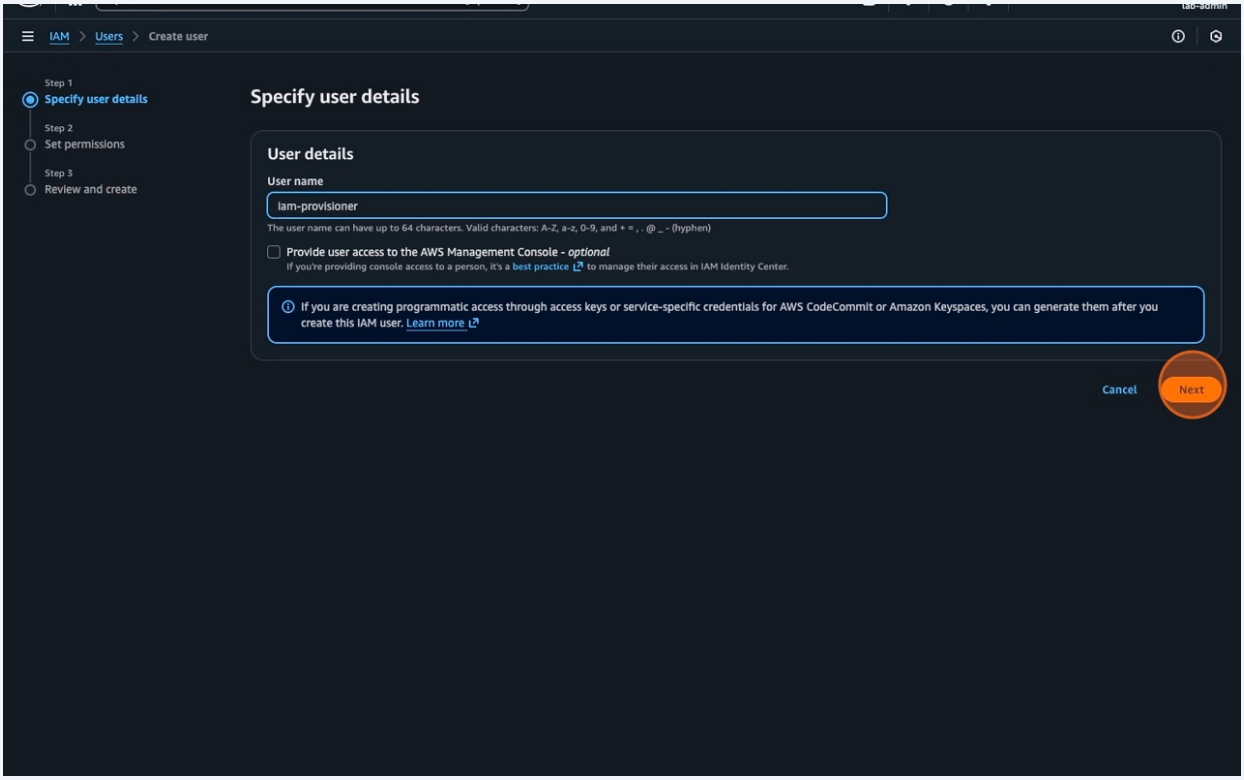
10 Click the "User name" field.



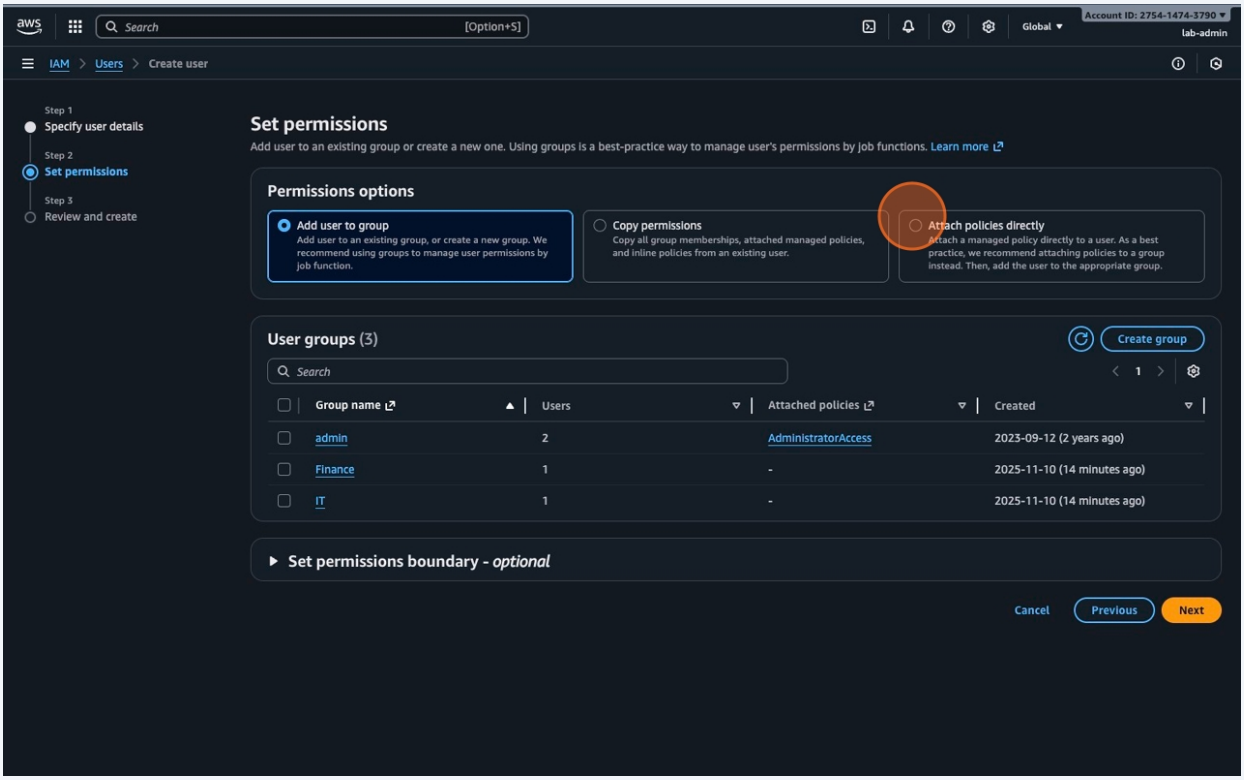
11 Type "iam-provisioner"



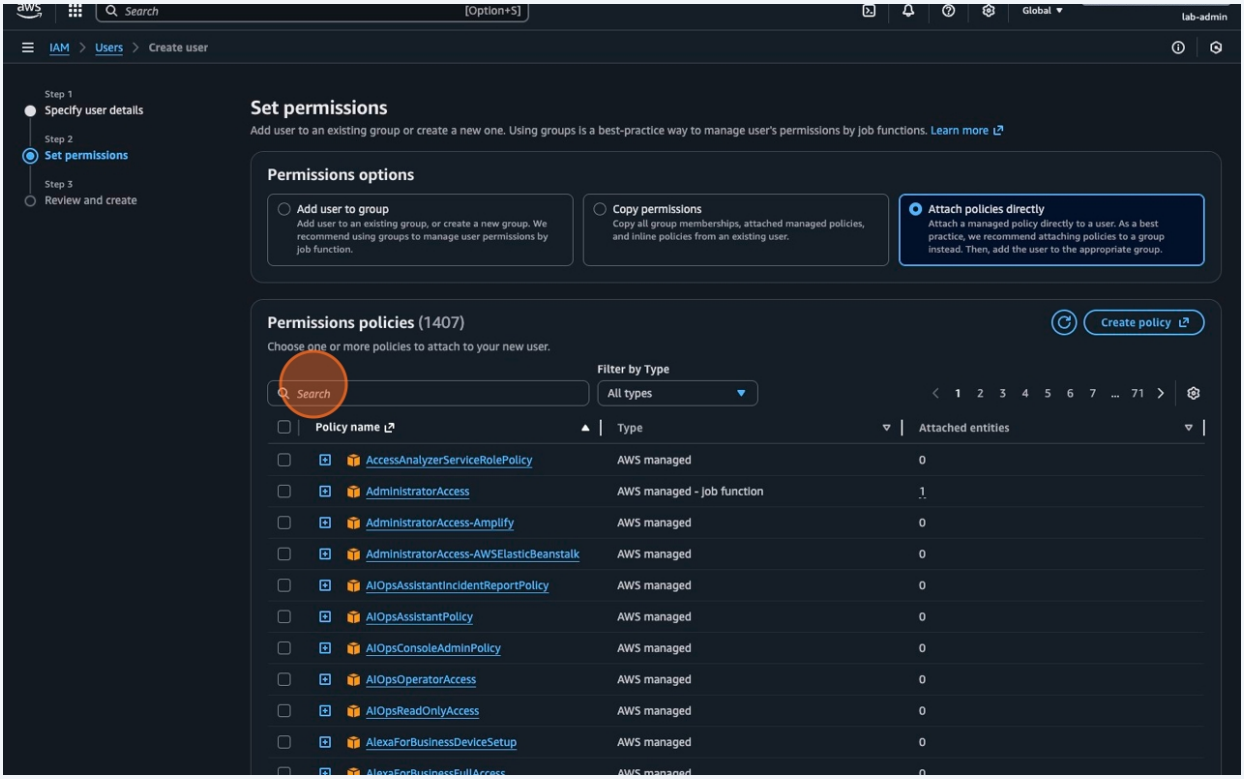
12 Click "Next"



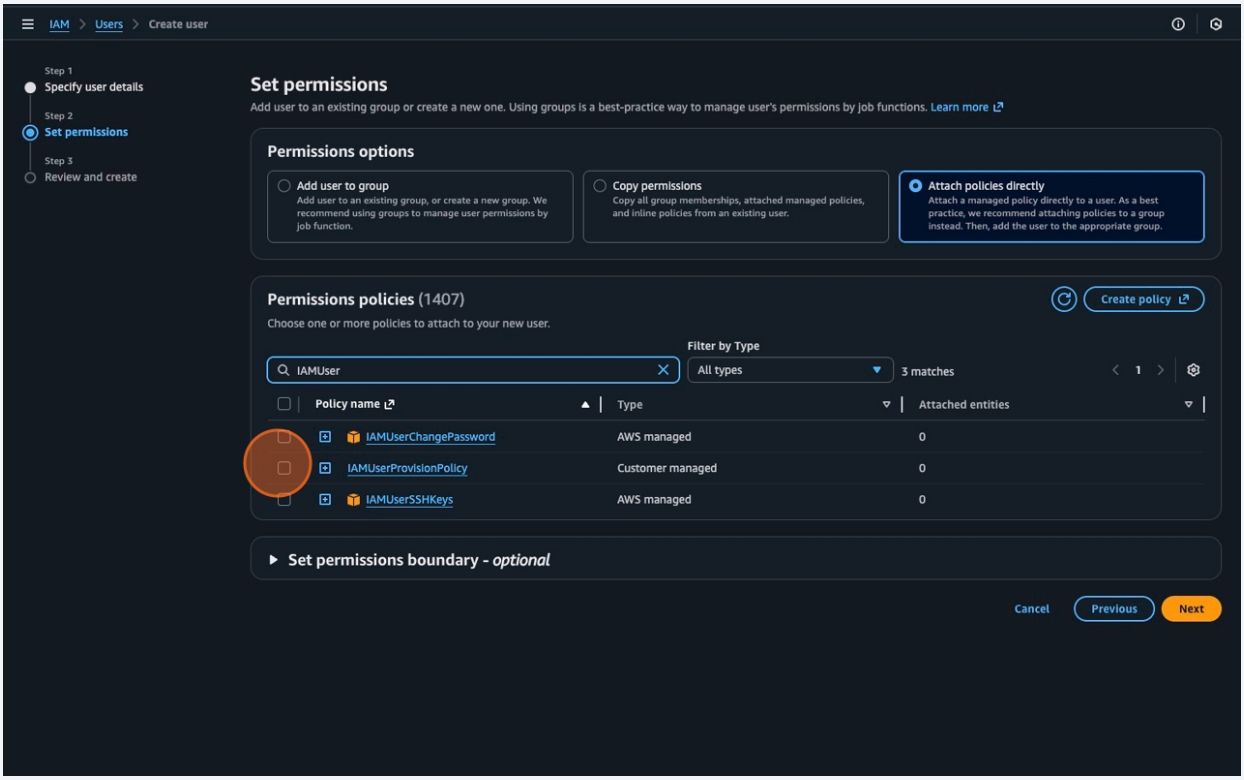
13 Click this radio button.



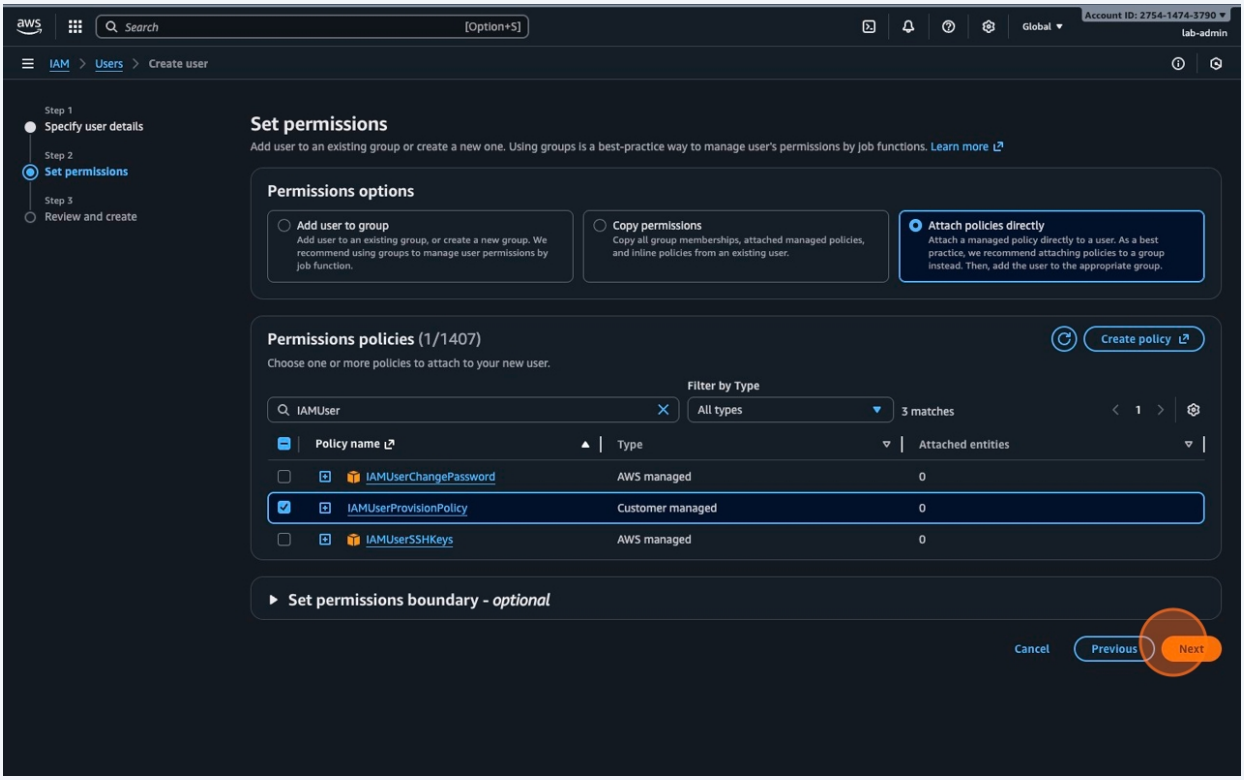
14 Click the "Search" field.



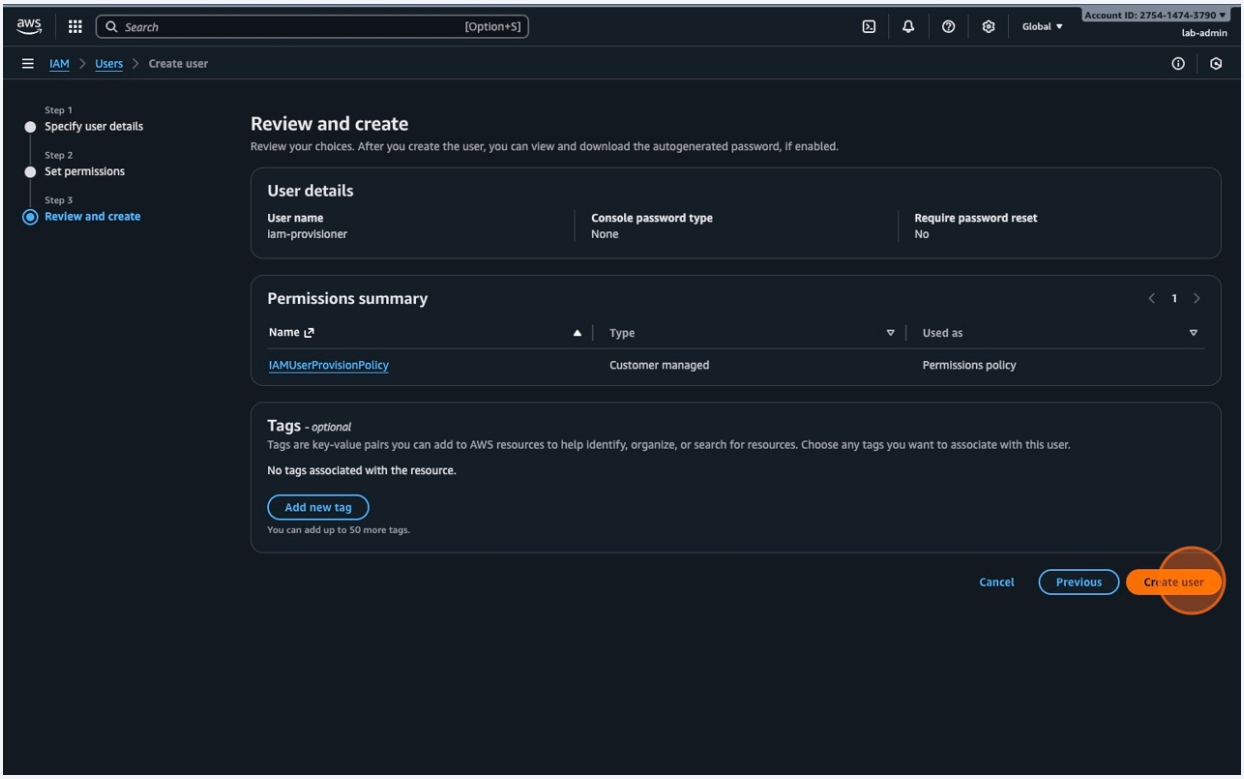
15 Click this checkbox.



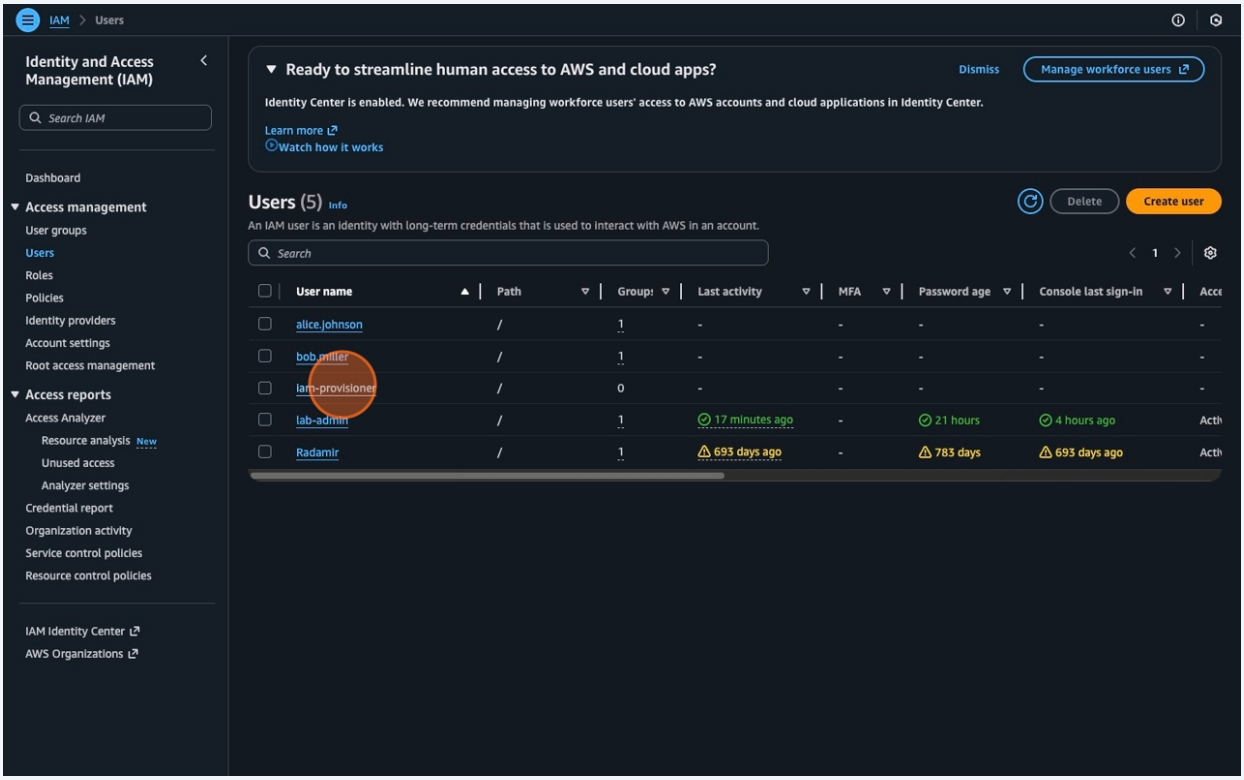
16 Click "Next"



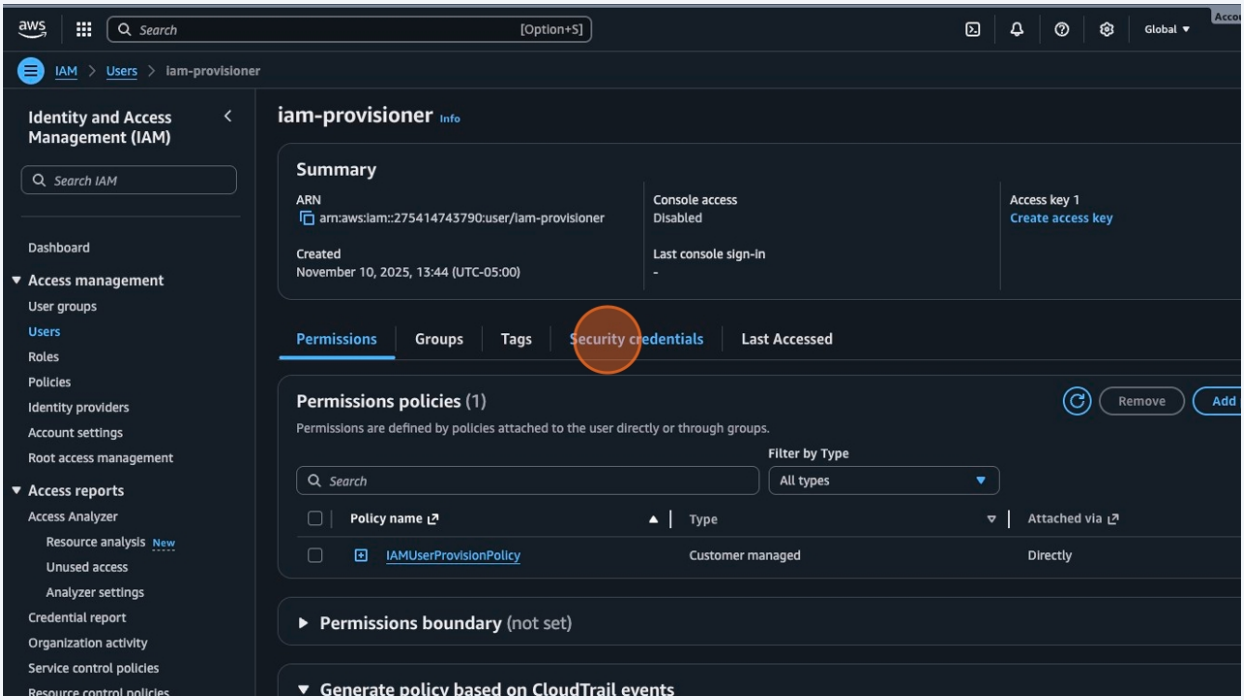
17 Click "Create user"



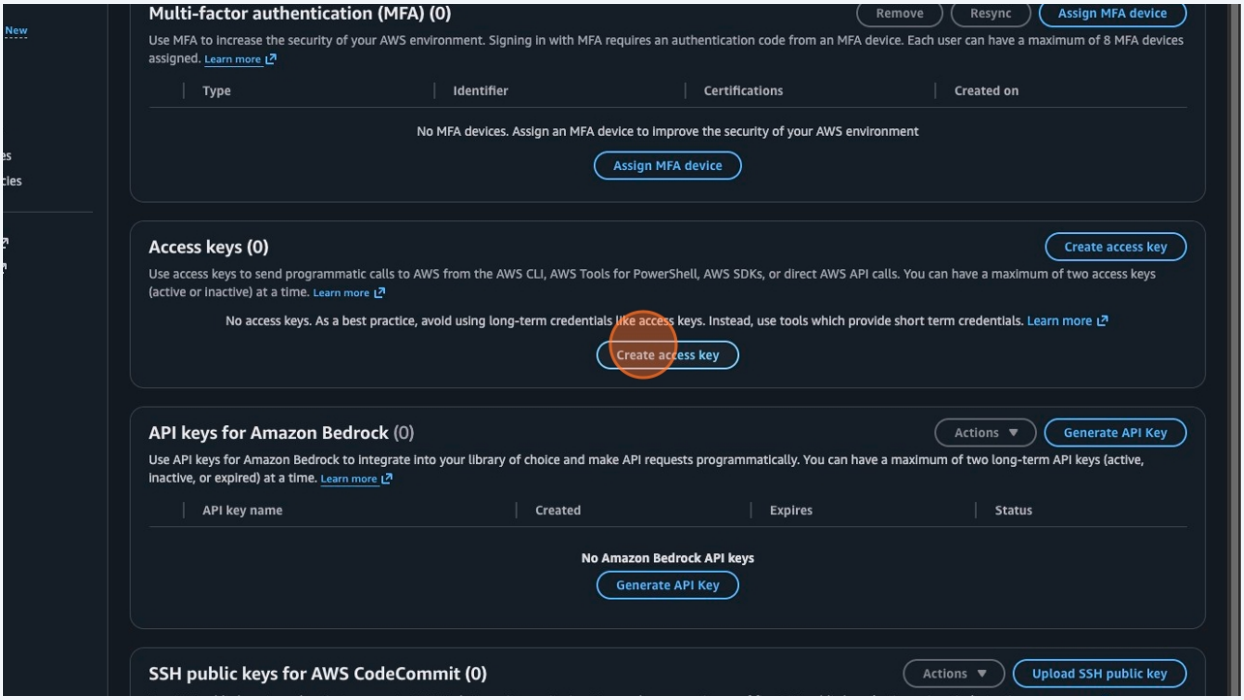
18 Click "iam-provisioner"



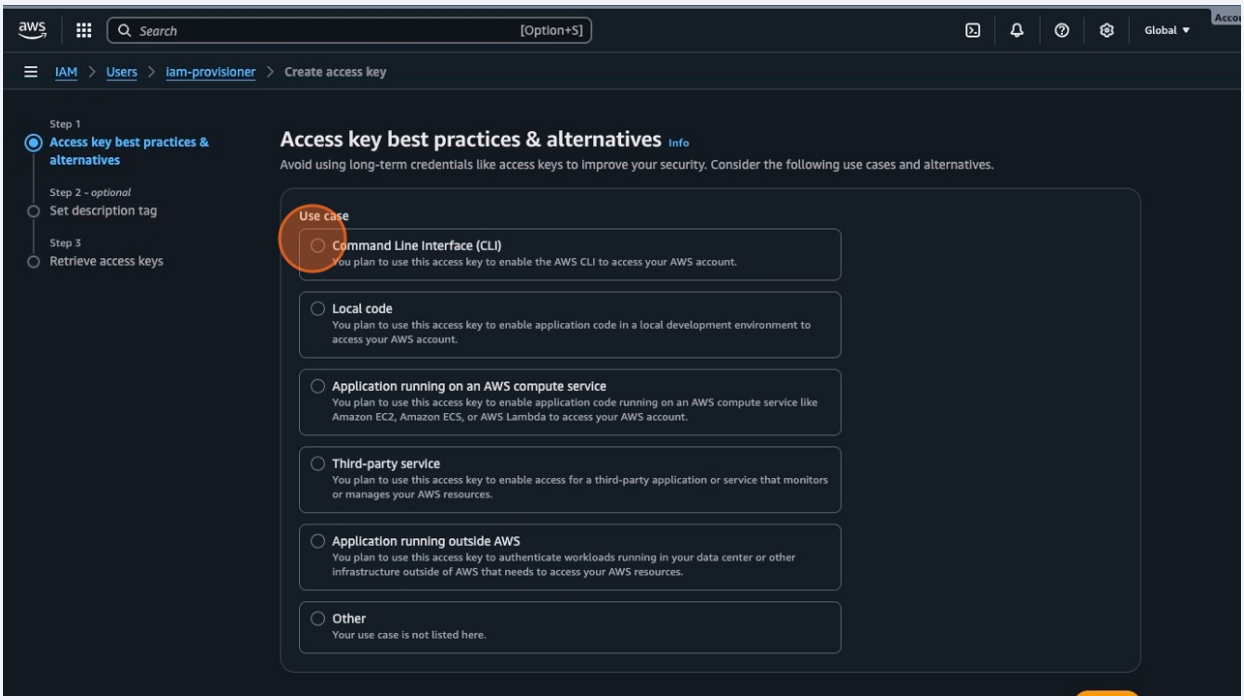
19 Click "Security credentials"



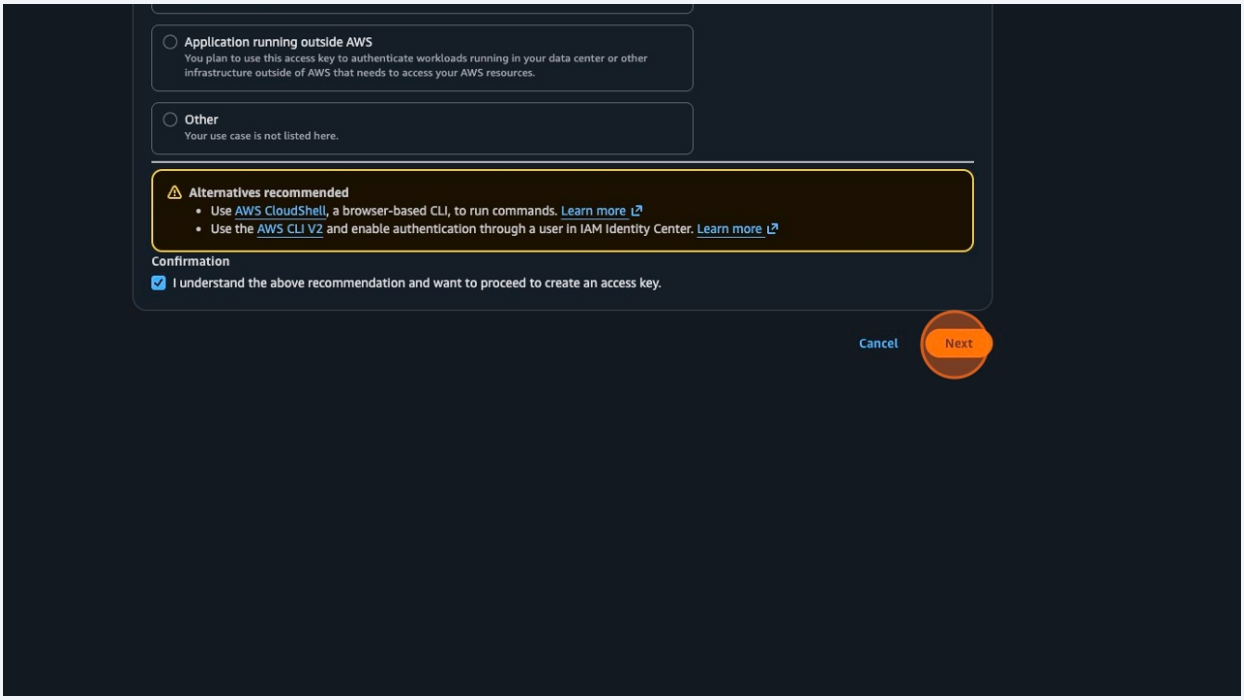
20 Click "Create access key"



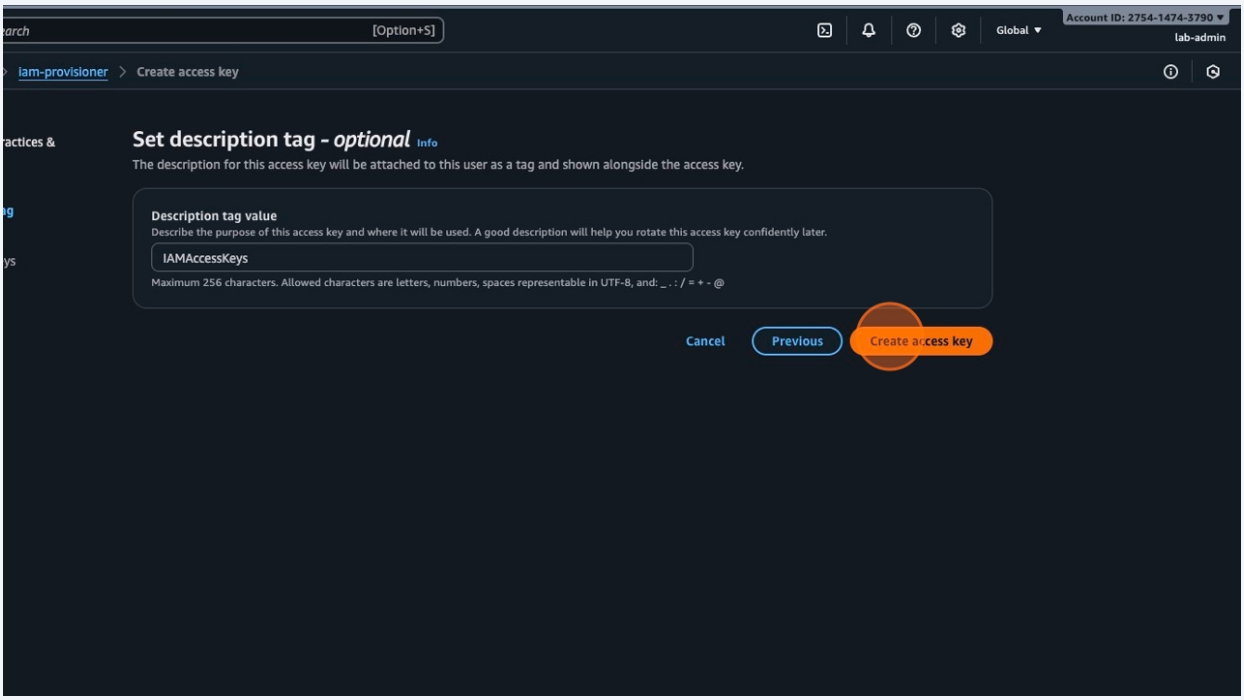
21 Click this radio button.



22 Click "Next"



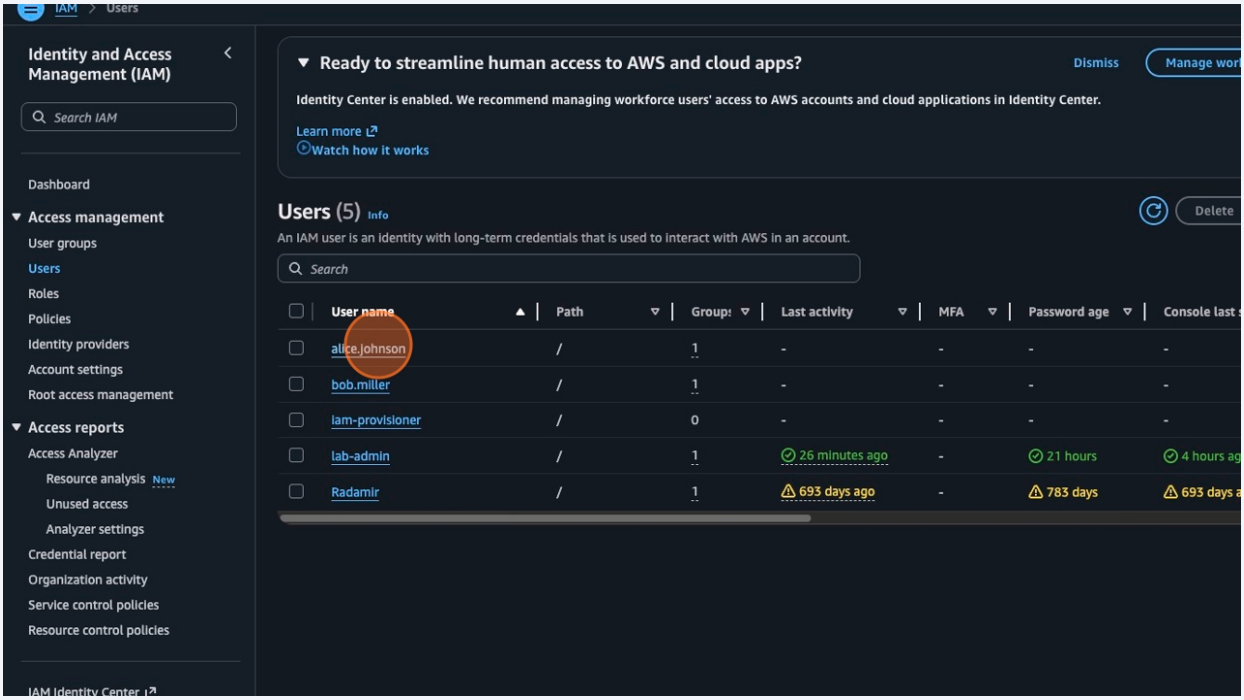
23 Click "Create access key"



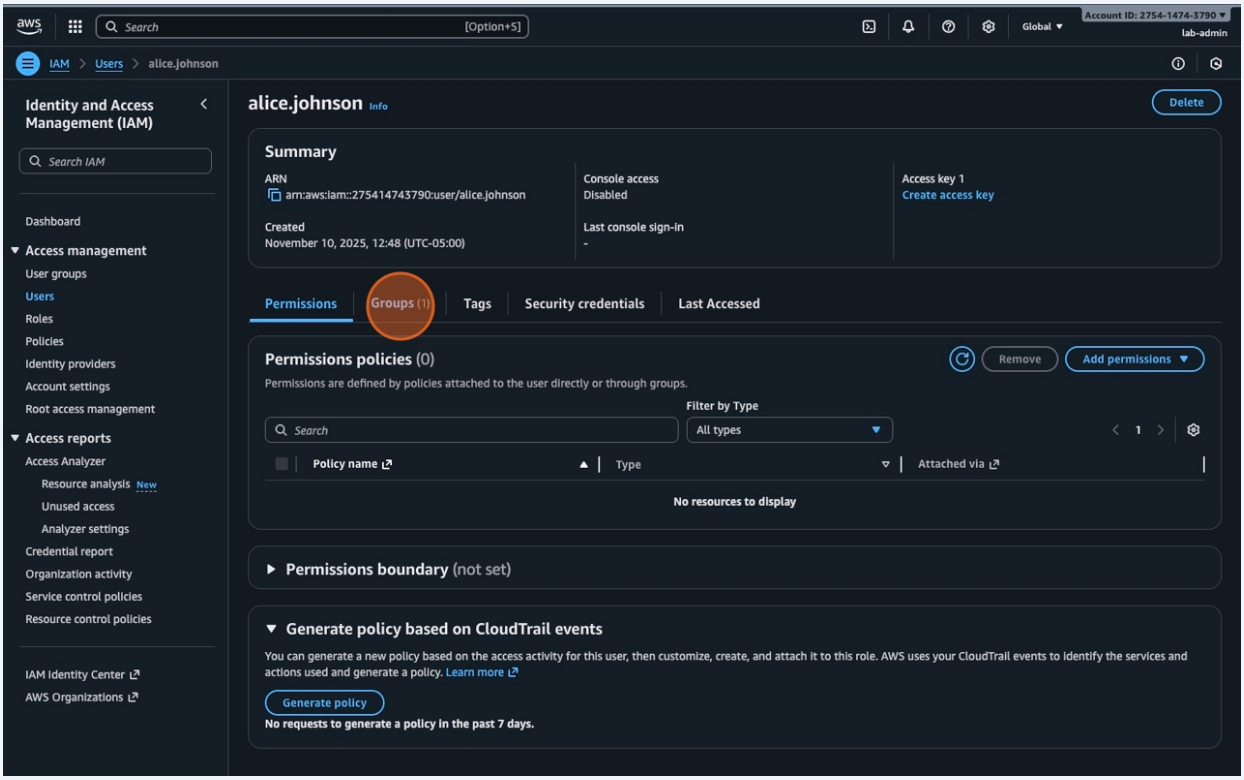
Step 24 – Developed .CSV file PowerShell script. Ran the following command in the terminal ->

```
Last login: Mon Nov 10 14:33:45 on ttys000
radamirsiad@Radamirs-MacBook-Pro ~ % brew install awscli
Warning: awscli 2.31.32 is already installed and up-to-date.
To reinstall 2.31.32, run:
  brew reinstall awscli
radamirsiad@Radamirs-MacBook-Pro ~ % aws configure --profile provisioner
AWS Access Key ID [****************YT7L]: AKIAUAH77PLXJ7SJYT7L
AWS Secret Access Key [****************d56r]: 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
Default region name [us-east-2]: us-east-2
Default output format [json]: json
radamirsiad@Radamirs-MacBook-Pro ~ % pwsh
PowerShell 7.5.4
PS /Users/radamirsiad> Install-Module AWS.Tools.Common -Scope CurrentUser -Force
PS /Users/radamirsiad> Install-Module AWS.Tools.IdentityManagement -Scope CurrentUser -Force
PS /Users/radamirsiad>
PS /Users/radamirsiad> Initialize-AWSDefaultConfiguration -ProfileName provisioner
PS /Users/radamirsiad> cd ~/Downloads
PS /Users/radamirsiad/Downloads> ./provisioning.ps1
Transcript started, output file is /Users/radamirsiad/Downloads/provisioning_log.txt
Loaded 3 user entries from CSV.

Processing user: alice.johnson (Create)
User already exists: alice.johnson
Added alice.johnson to group Finance
Processing user: bob.miller (Create)
User already exists: bob.miller
Added bob.miller to group IT
Processing user: eve.smith (Delete)
Delete failed for eve.smith: The user with name eve.smith cannot be found.

Provisioning run complete. Check AWS Console and provisioning_log.txt for results.
Transcript stopped, output file is /Users/radamirsiad/Downloads/provisioning_log.txt
```

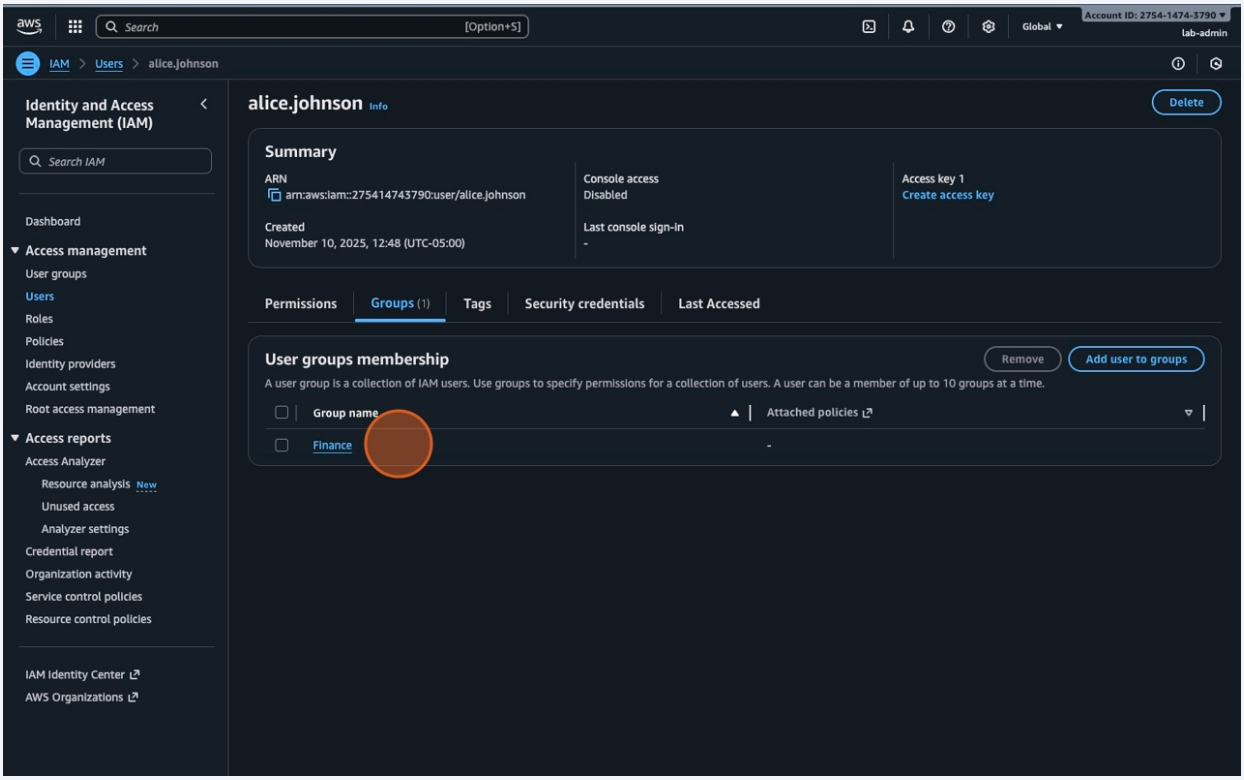
25 Click "alice.johnson"



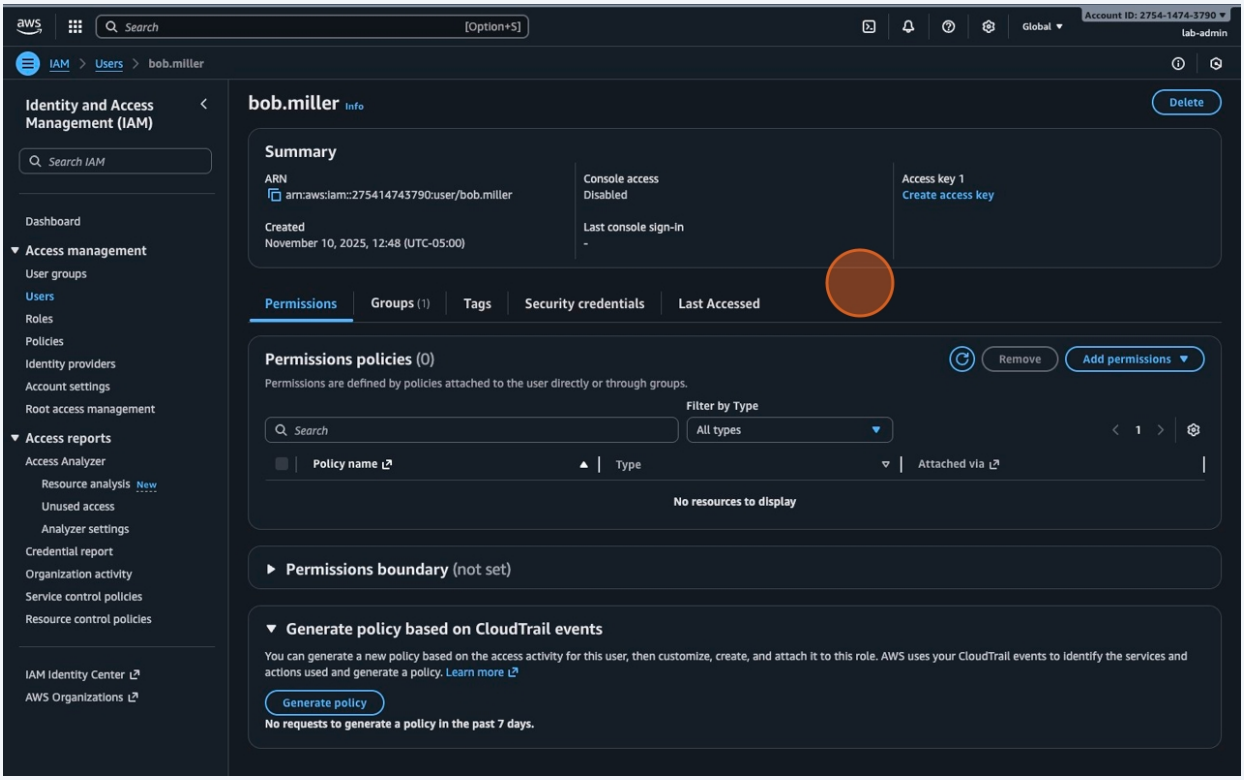
26 Click "Groups"



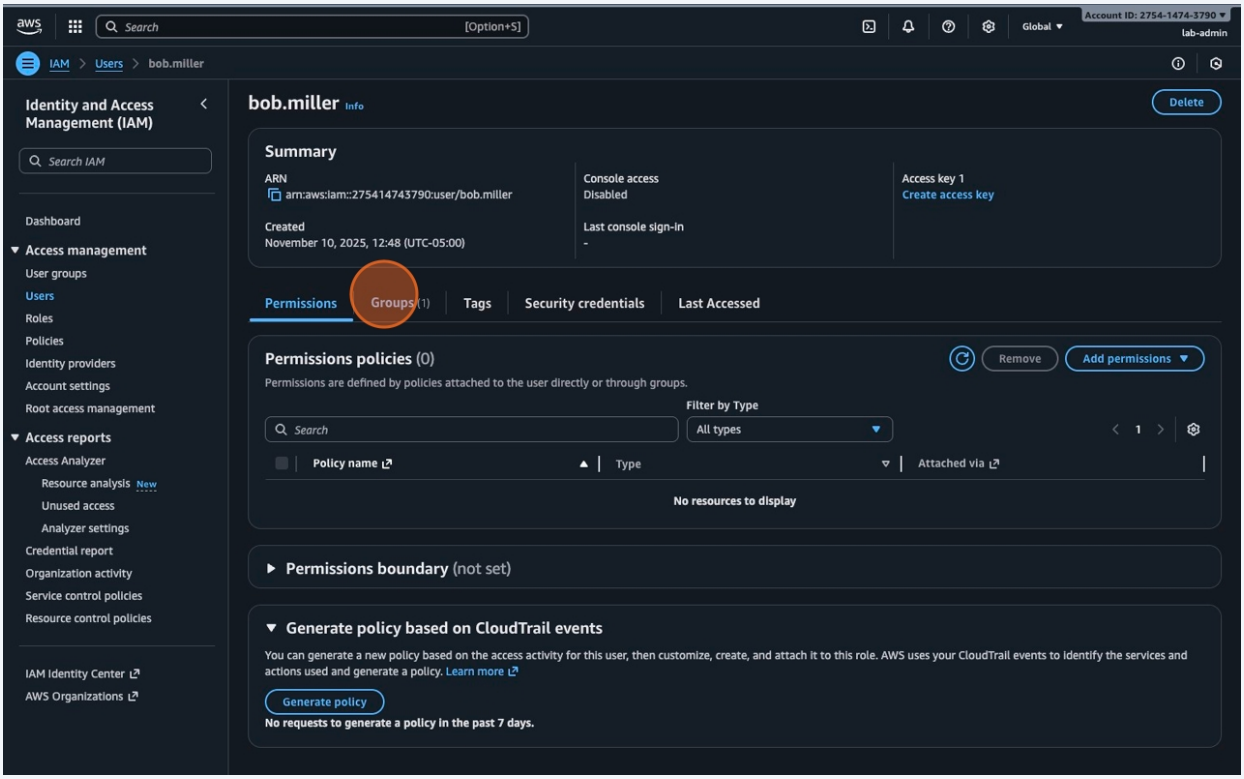
27 Alice Johnson is in the Finance group



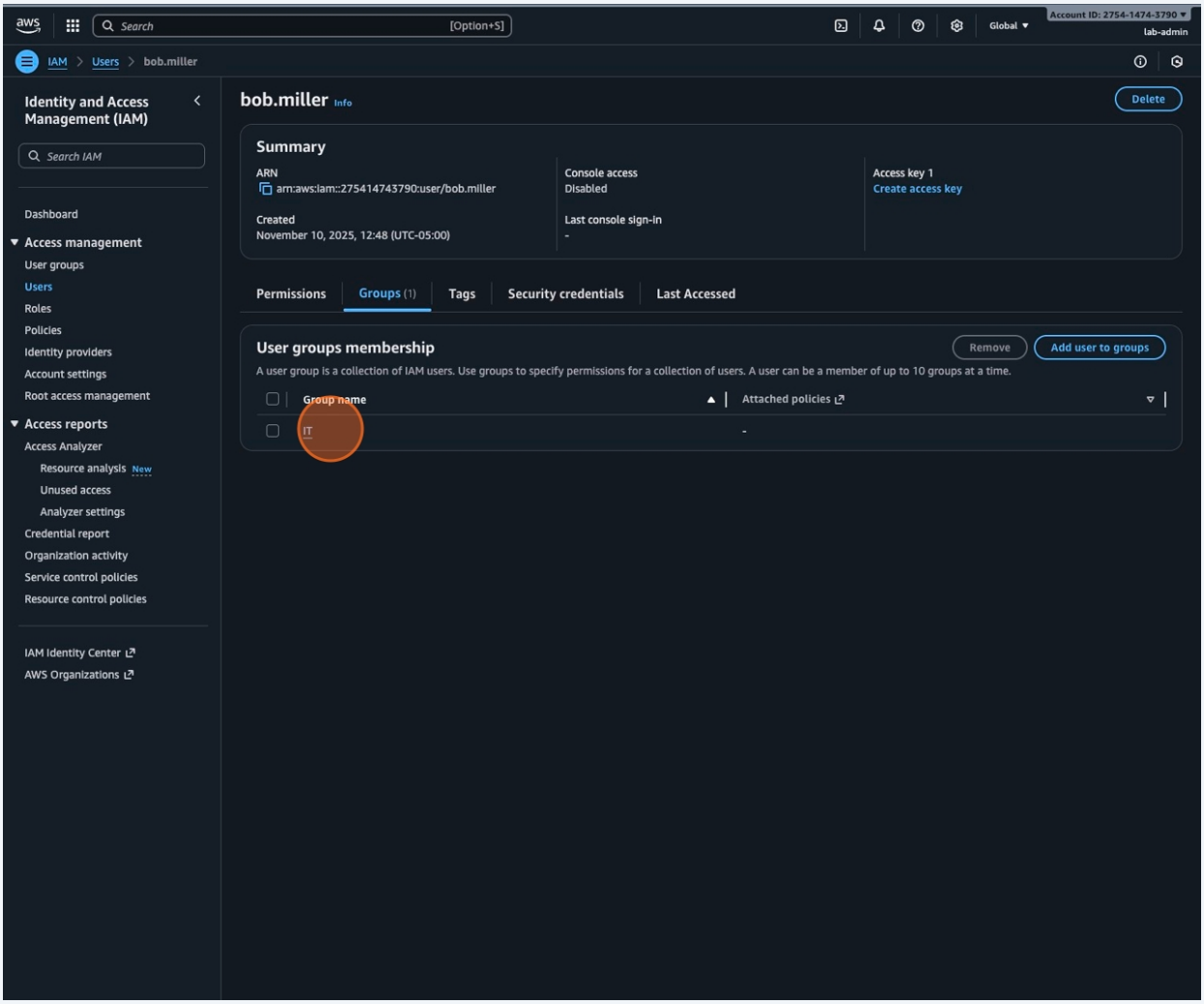
28 Now select the second user created



29 Click "Groups"



30 Bob Miller is a member of the IT group



Step 31 -> Made edits to the .CSV file to include “Delete” function to Bob Millers profile.

Ran the following PowerShell command

```
PS /Users/radamirsiad/Downloads> ./provisioning.ps1
Transcript started, output file is /Users/radamirsiad/Downloads/provisioning_log.txt
Loaded 3 user entries from CSV.

Processing user: alice.johnson (Create)
User already exists: alice.johnson
Added alice.johnson to group Finance
Processing user: bob.miller (Delete)
Deleted user: bob.miller
Processing user: eve.smith (Delete)
eve.smith does not exist — skipping delete.

Provisioning run complete. Check AWS Console and provisioning_log.txt for results.
Transcript stopped, output file is /Users/radamirsiad/Downloads/provisioning_log.txt
```

Step 32 – Going back to the AWS Console the user Bob Miller was deprovisioned