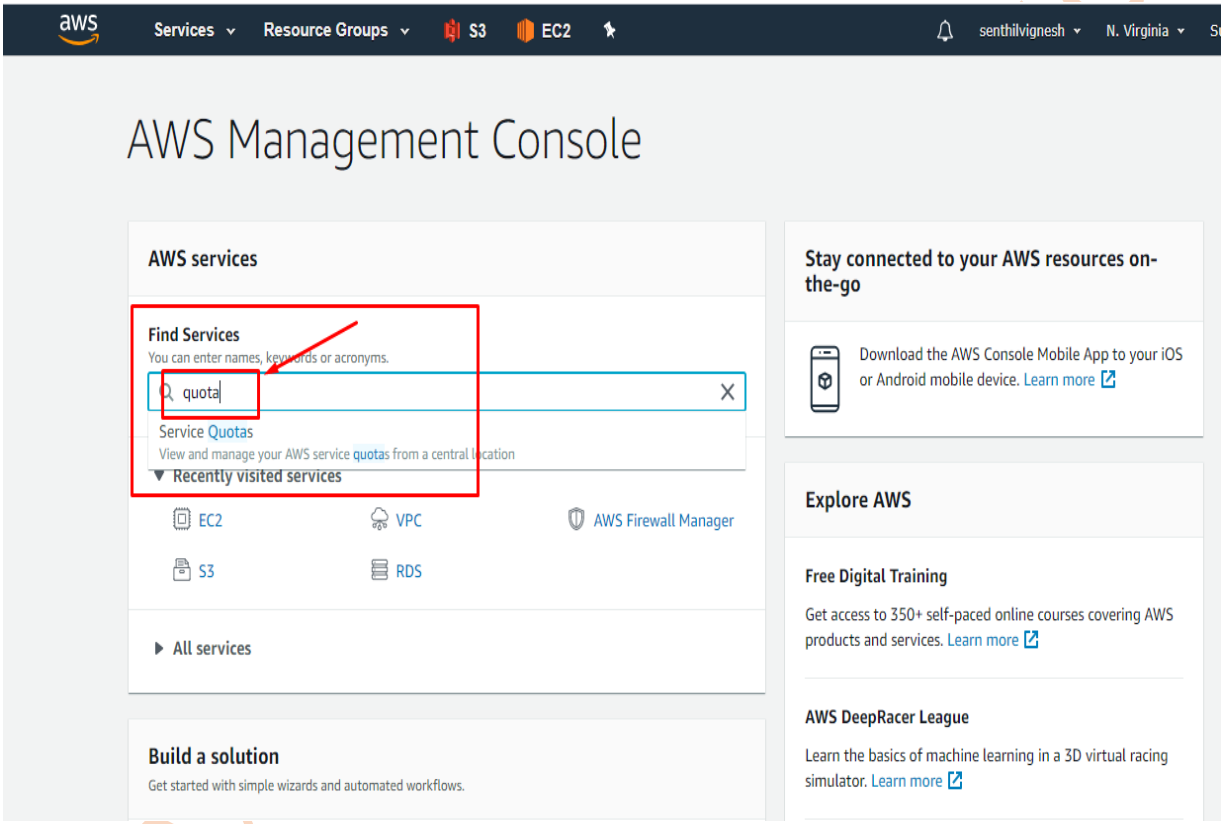
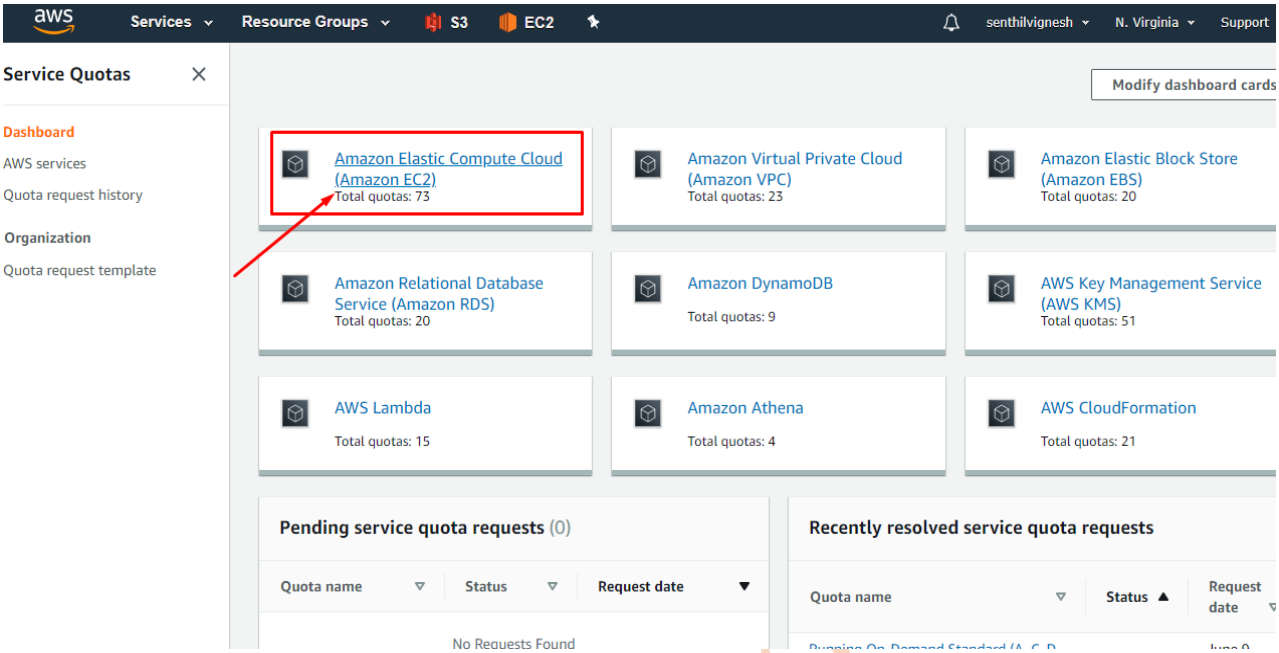
Verifying A/C Limits:

Step1:

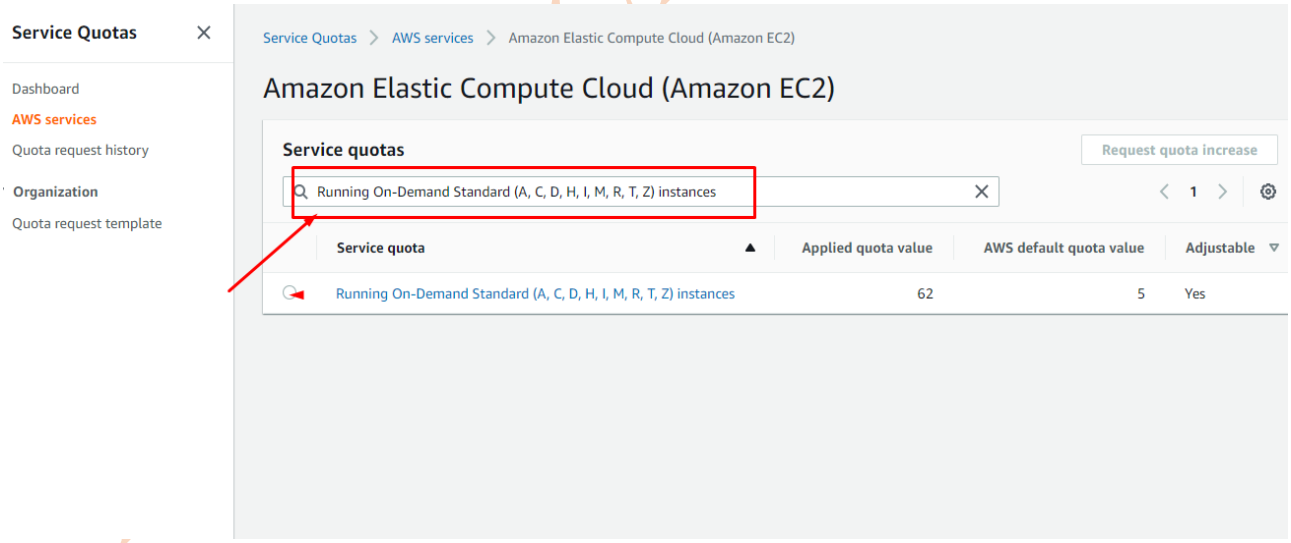


Step2:

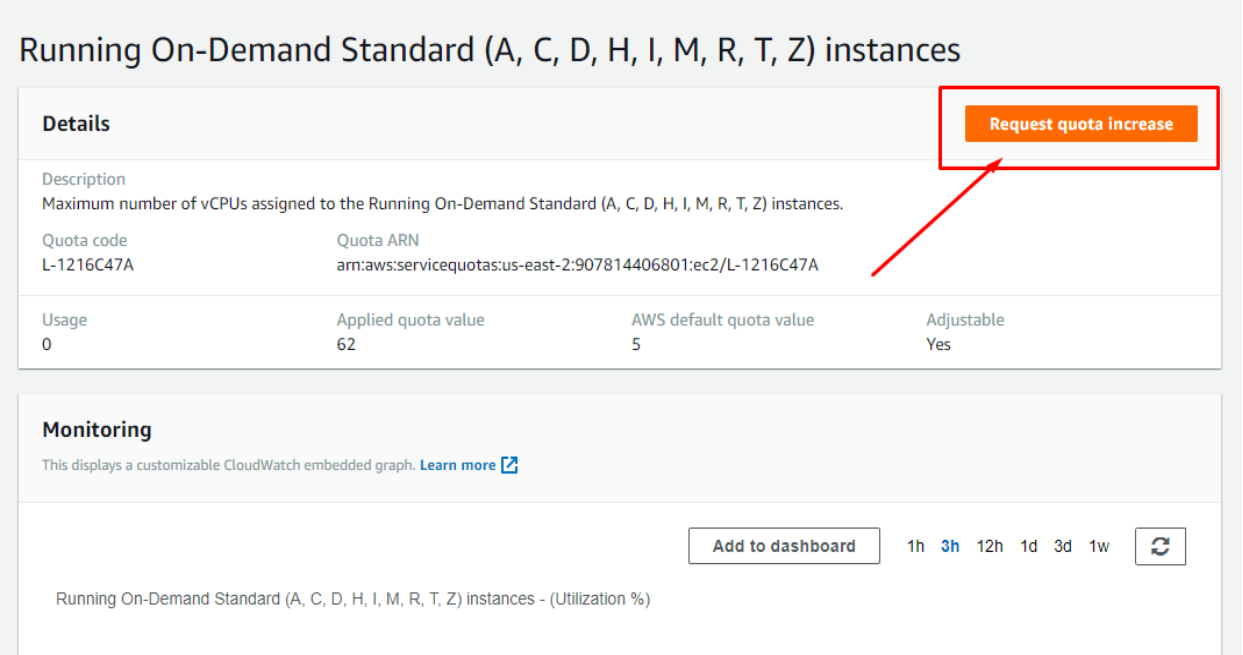
DVS Technologies Aws & Devops



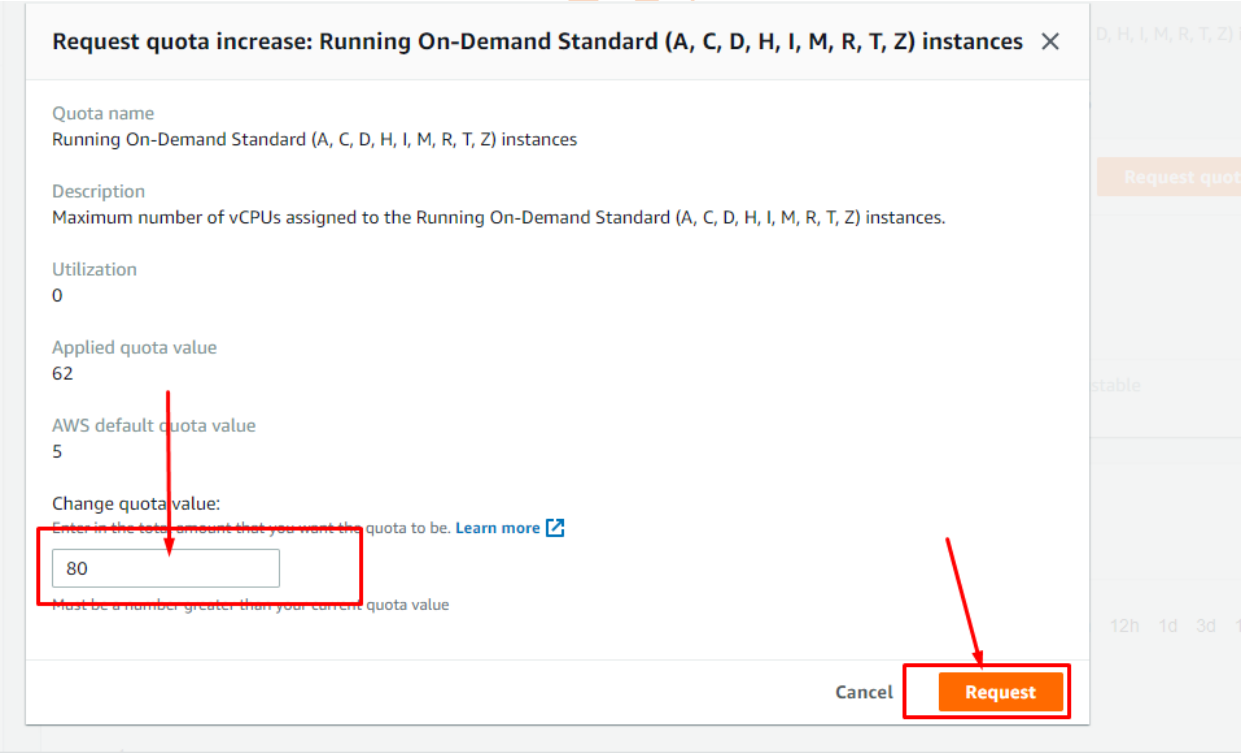
Step3:



Step4:


Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances
Details
Request quota increase
Description
Maximum number of vCPUs assigned to the Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances.
Quota code
L-1216C47A
Quota ARN
arn:aws:servicequotas:us-east-2:907814406801:ec2/L-1216C47A
Usage
0
Applied quota value
62
AWS default quota value
5
Adjustable
Yes
Monitoring
This displays a customizable CloudWatch embedded graph. Learn more
Add to dashboard
1h 3h 12h 1d 3d 1w
Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances - (Utilization %)

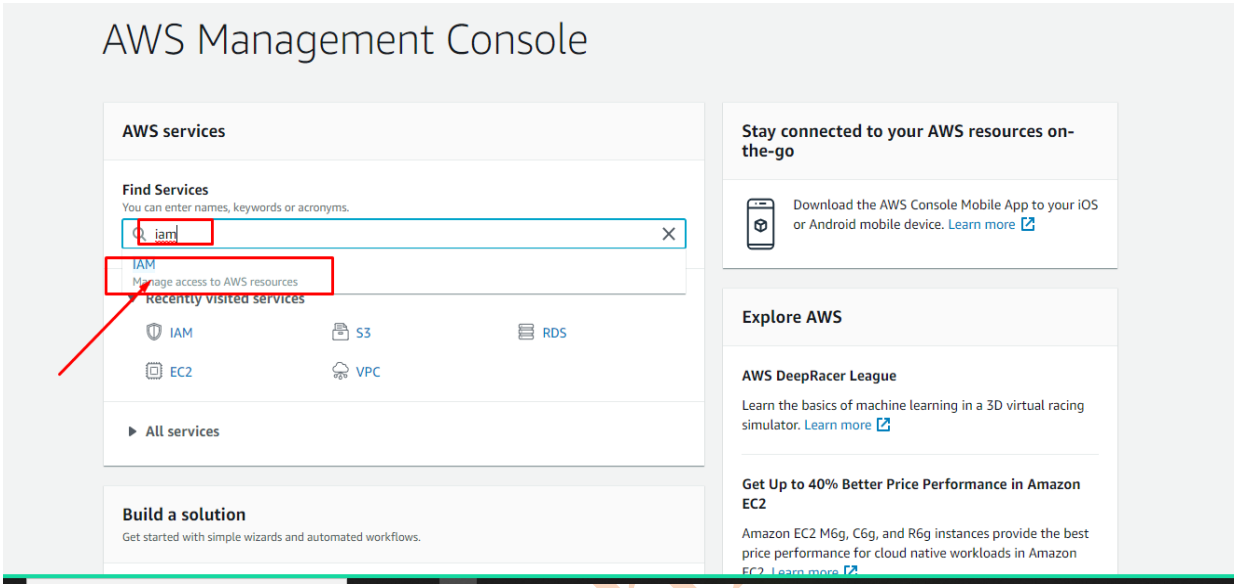
Step5:

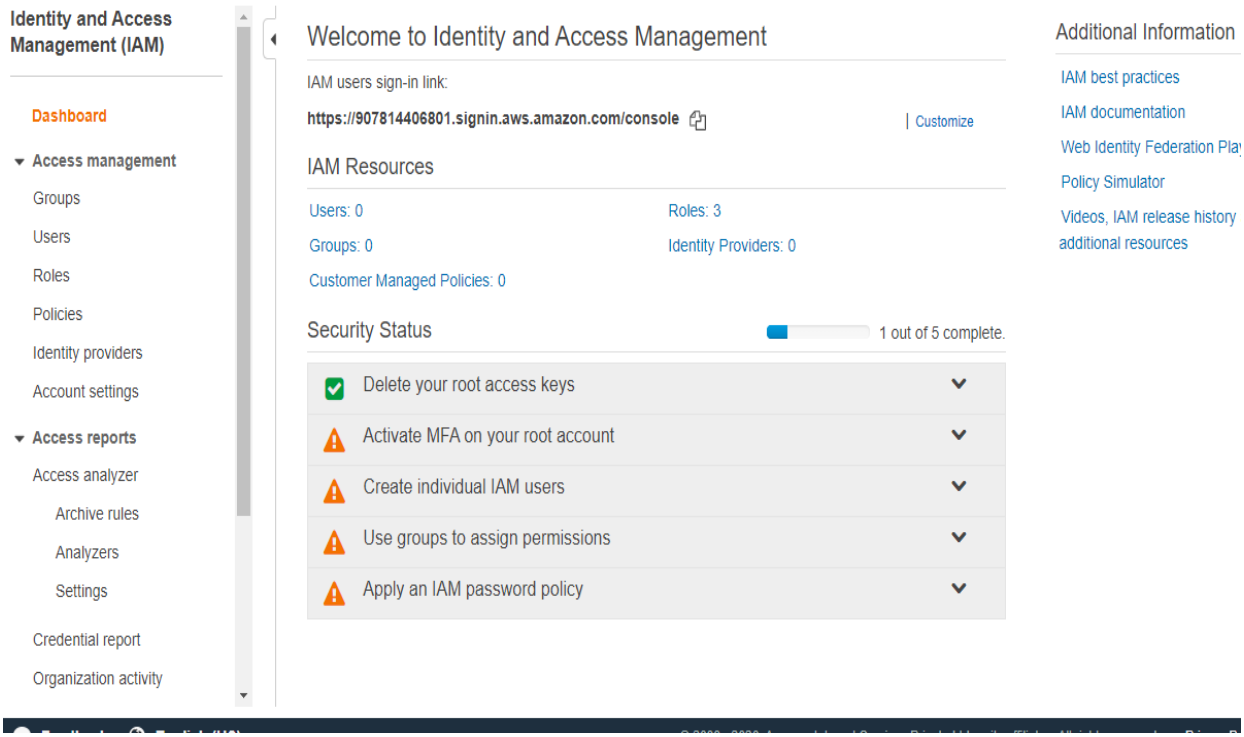

Request quota increase: Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances
Quota name
Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances
Description
Maximum number of vCPUs assigned to the Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances.
Utilization
0
Applied quota value
62
AWS default quota value
5
Change quota value:
Learn more
80
Cancel
Request

DVS Technologies Aws & Devops

1. Choosing IAM Service:

Working With IAM :

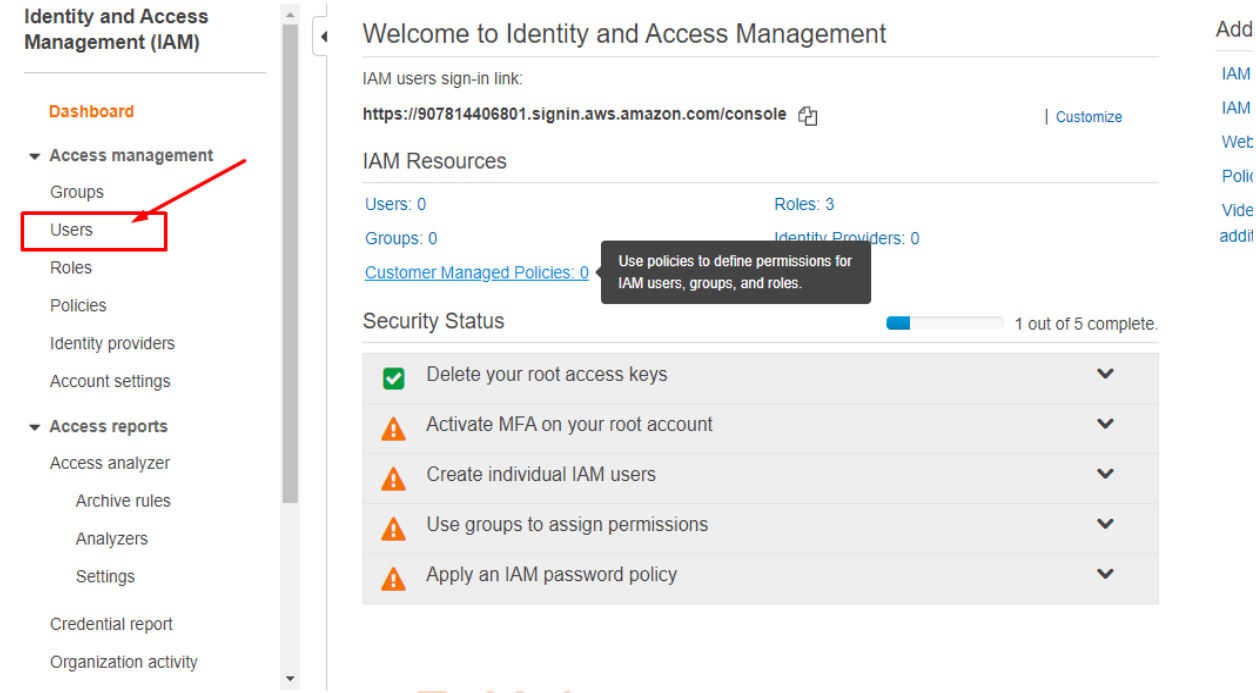




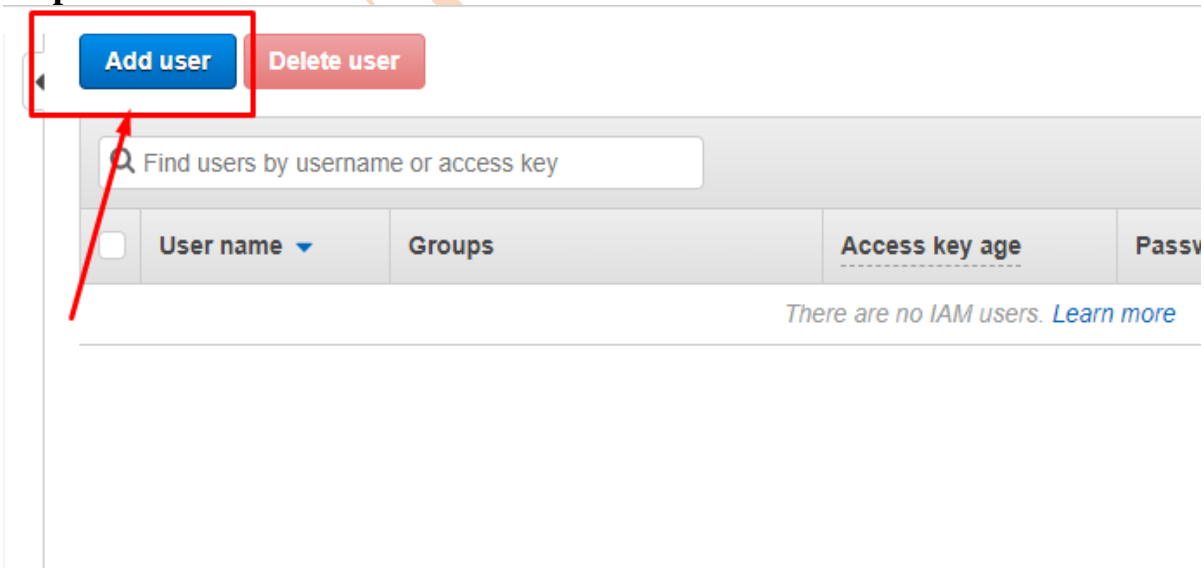
DVS Technologies Aws & Devops

2. Create a New user without any permissions

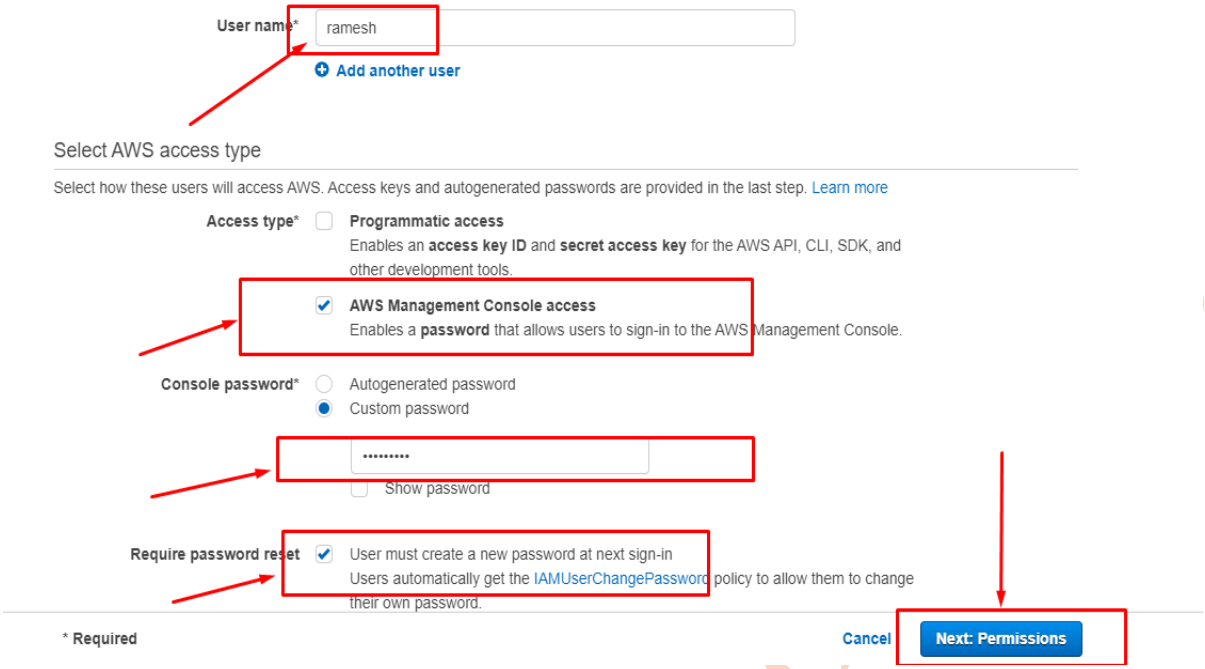
Step1:



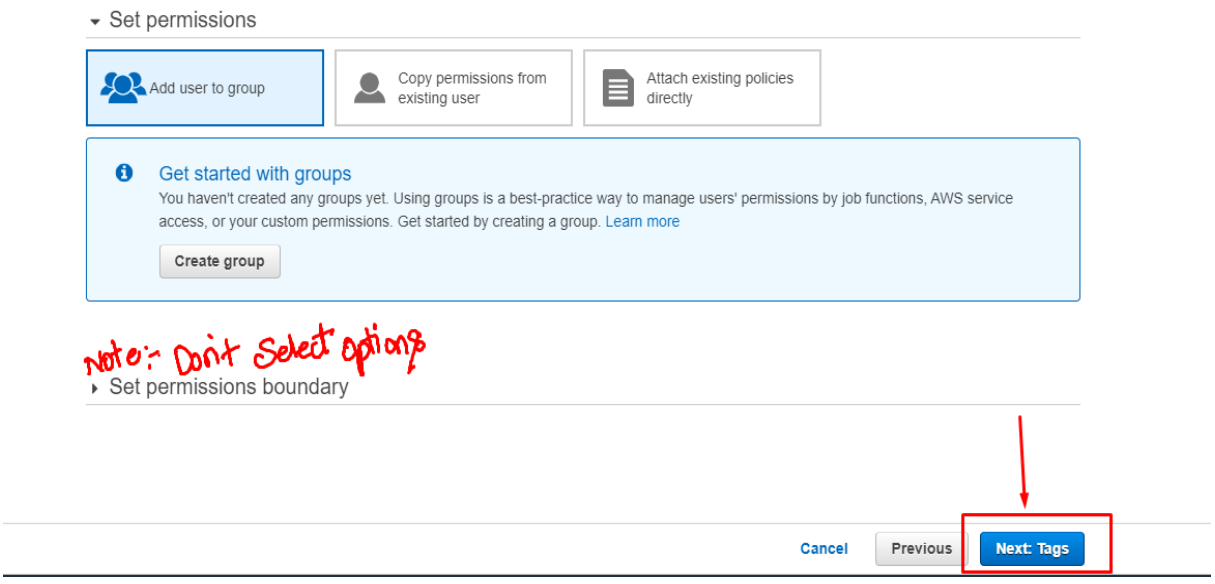
Step2:



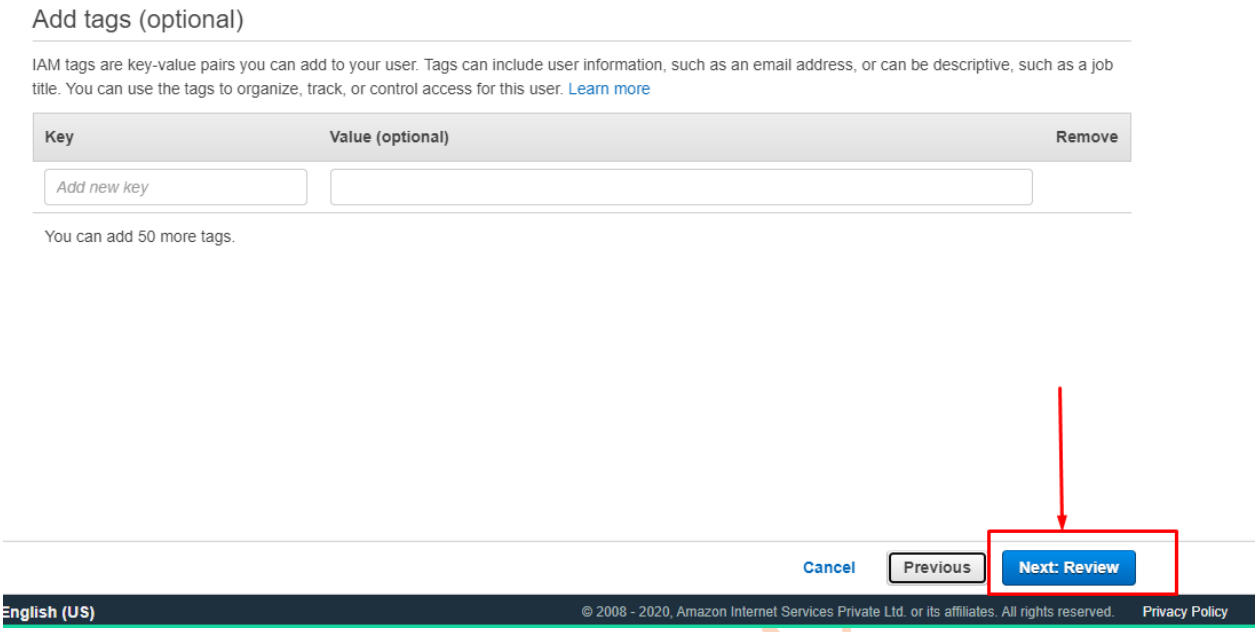
Step3:


User name*
ramesh
Add another user
Select AWS access type
Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. Learn more
Access type*
Programmatic access
Enables an access key ID and secret access key for the AWS API, CLI, SDK, and other development tools.
AWS Management Console access
Enables a password that allows users to sign-in to the AWS Management Console.
Console password*
Autogenerated password
Custom password
Show password
Require password reset
User must create a new password at next sign-in
Users automatically get the IAMUserChangePassword policy to allow them to change their own password.
* Required
Cancel
Next: Permissions

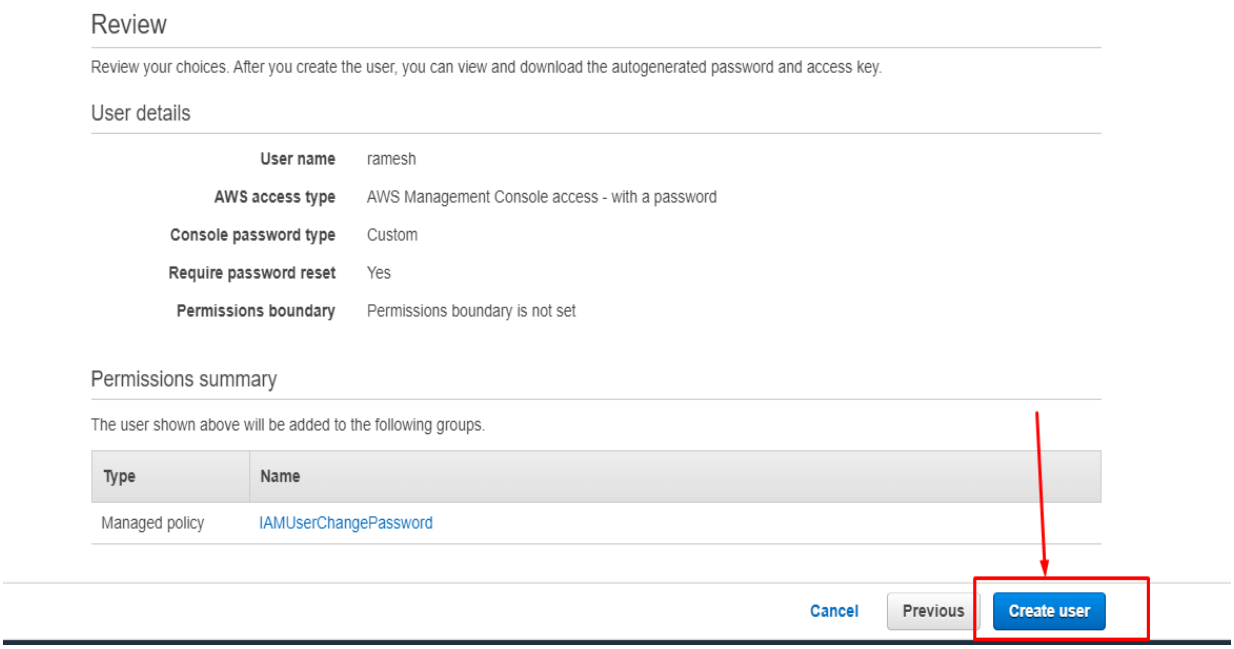
Step4:


Set permissions
Add user to group
Copy permissions from existing user
Attach existing policies directly
Get started with groups
You haven't created any groups yet. Using groups is a best-practice way to manage users' permissions by job functions, AWS service access, or your custom permissions. Get started by creating a group. Learn more
Create group
Note:- Don't Select options
Set permissions boundary
Cancel
Previous
Next: Tags

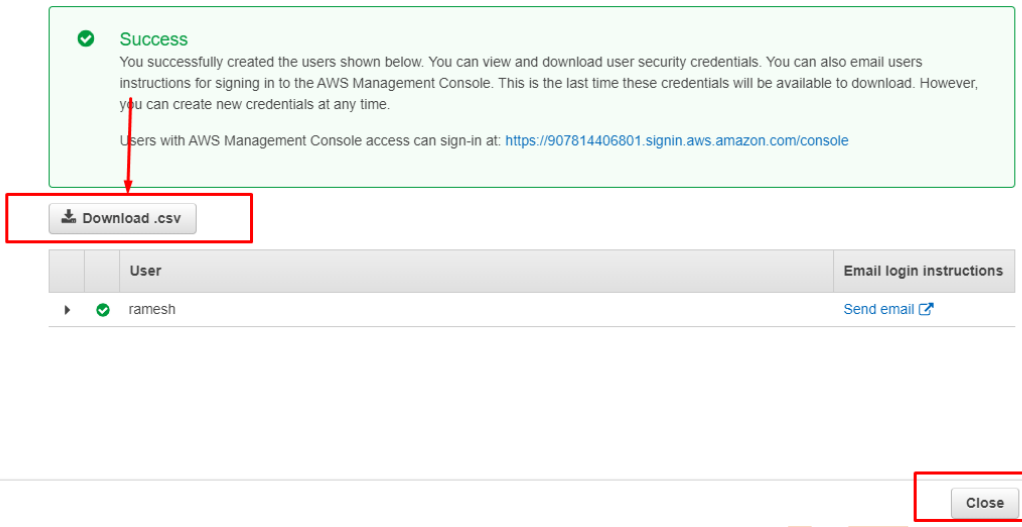
Step5:


Add tags (optional)
IAM tags are key-value pairs you can add to your user. 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 user. Learn more
Key
Value (optional)
Remove
Add new key
You can add 50 more tags.
Cancel
Previous
Next: Review
English (US)
© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.
Privacy Policy

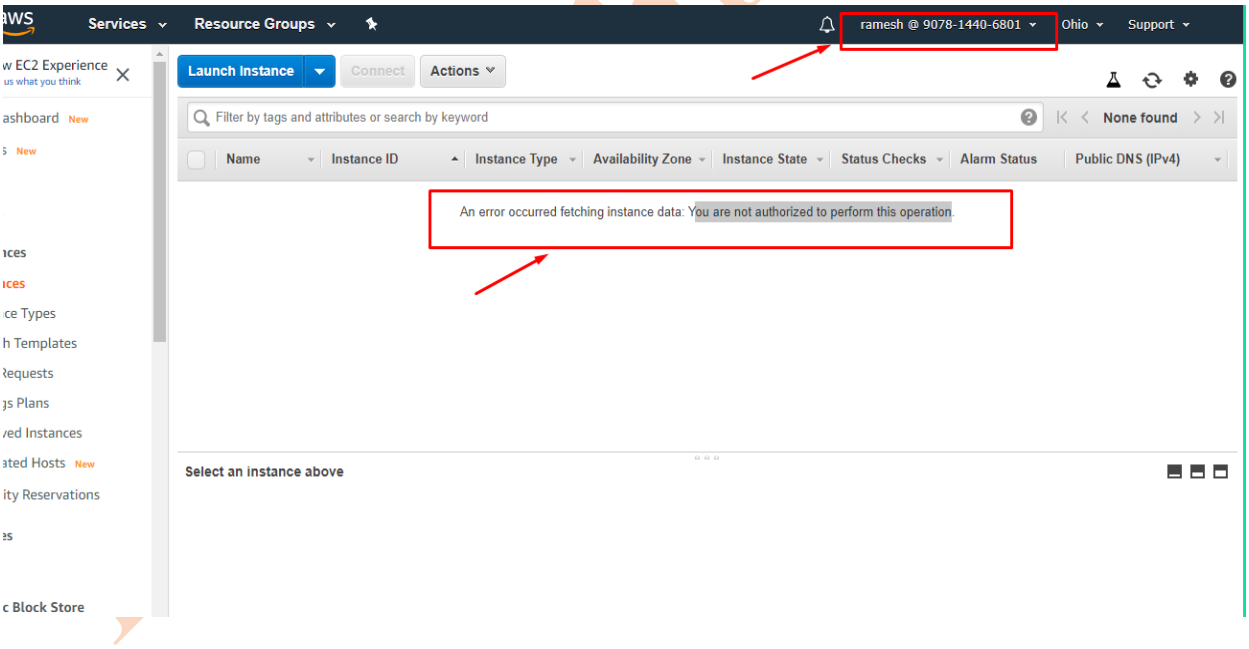
Step6:


Review
Review your choices. After you create the user, you can view and download the autogenerated password and access key.
User details
User name
ramesh
AWS access type
AWS Management Console access - with a password
Console password type
Custom
Require password reset
Yes
Permissions boundary
Permissions boundary is not set
Permissions summary
The user shown above will be added to the following groups.
Type
Name
Managed policy
IAMUserChangePassword
Cancel
Previous
Create user

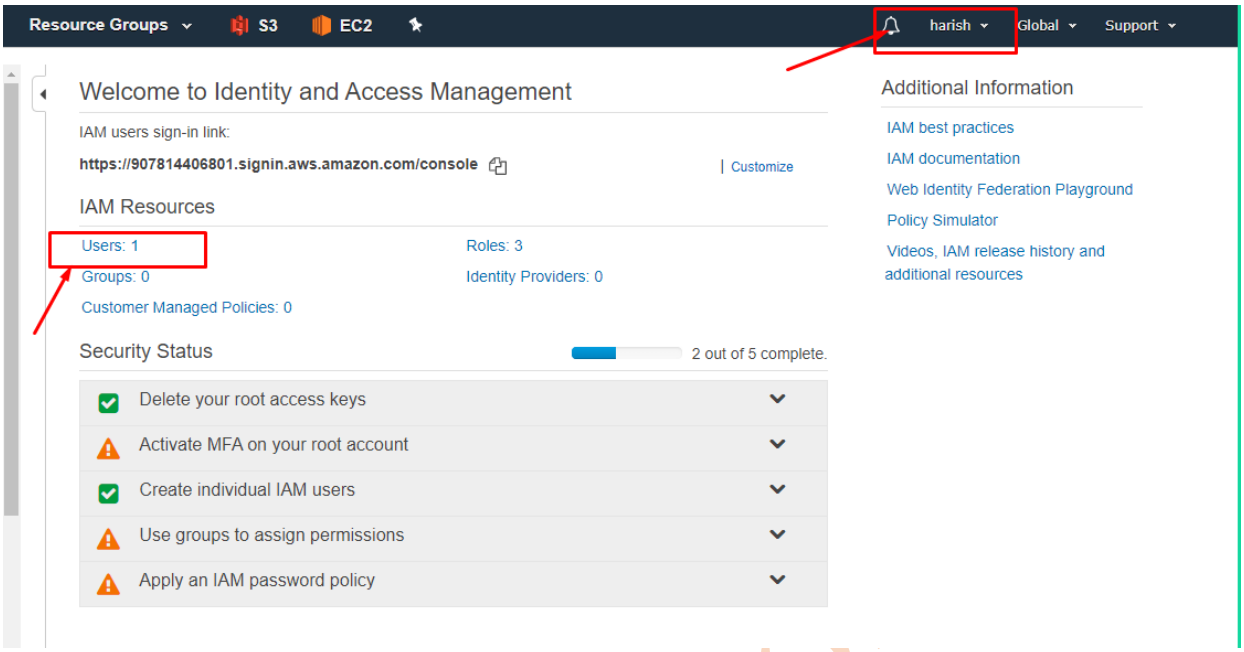
Step7:

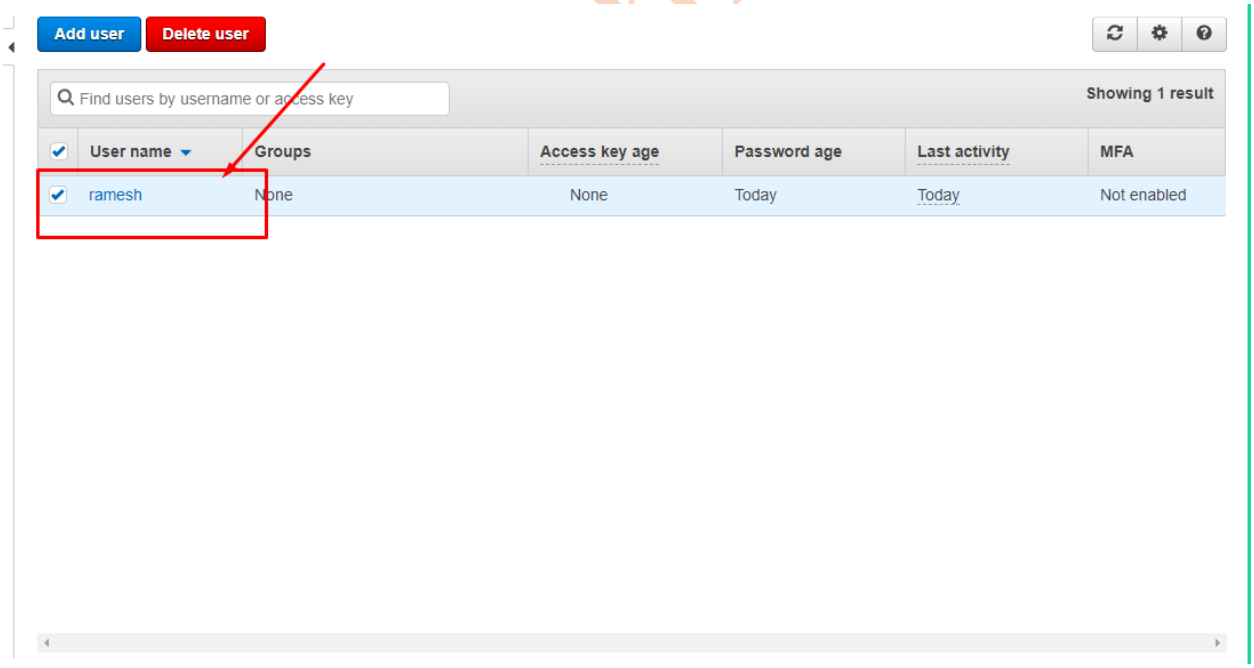


3. Granting Access for IAM user



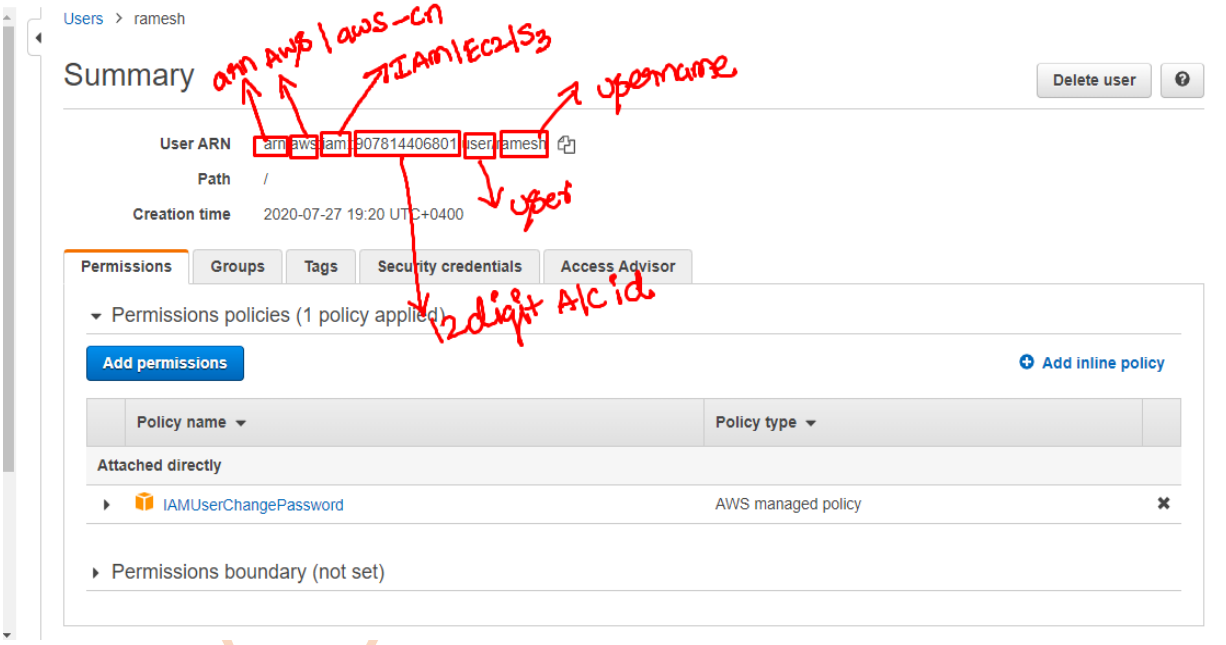
DVS Technologies Aws & Devops

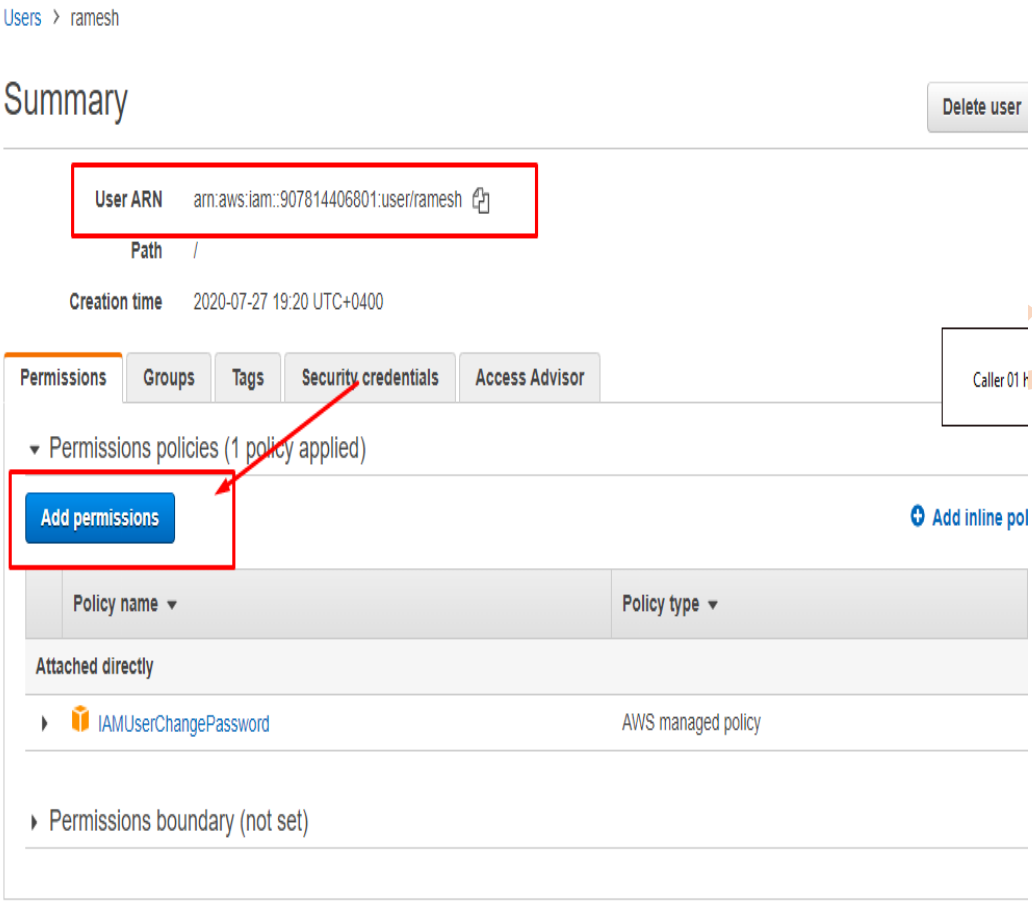


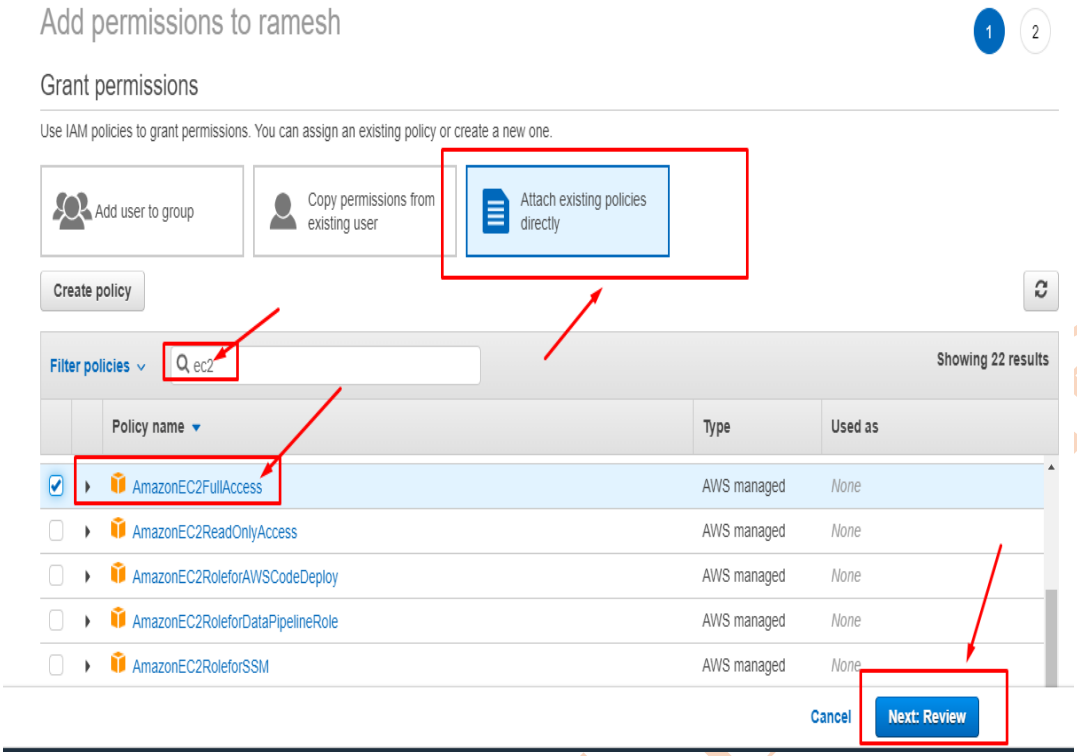


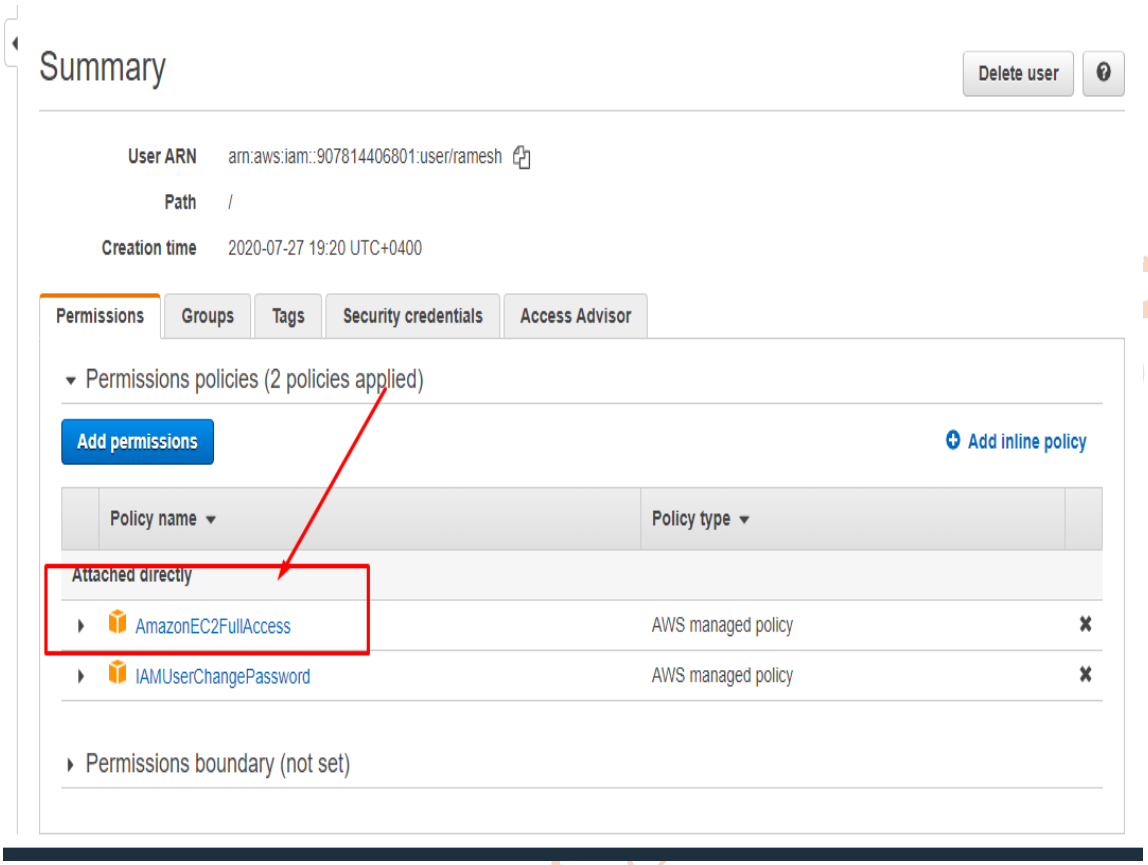
DVS Technologies Aws & Devops

```
arn:partition:service:region:account-id:

partition = aws or aws-cn (for China)
service = the AWS service: s3, ec2, rds, dynamodb
region = region code: us-east-1, ap-southeast-2

And, depending on service, finish with:

resource
resourcetype/resource
resourcetype/resource/qualifier
```

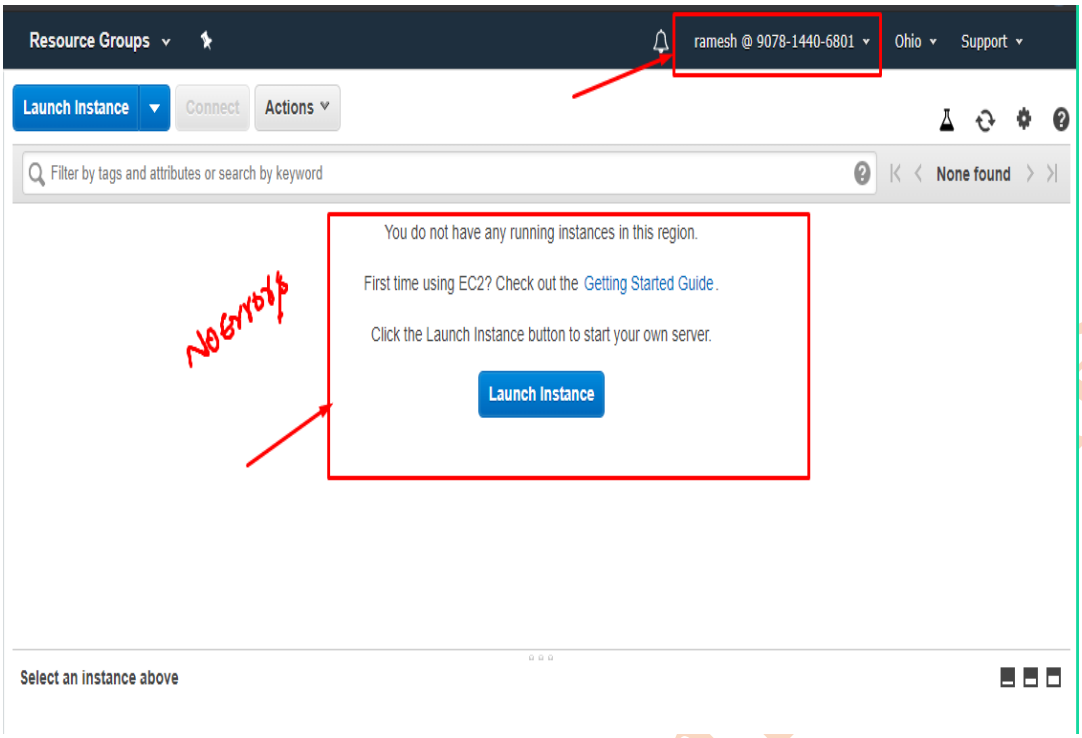


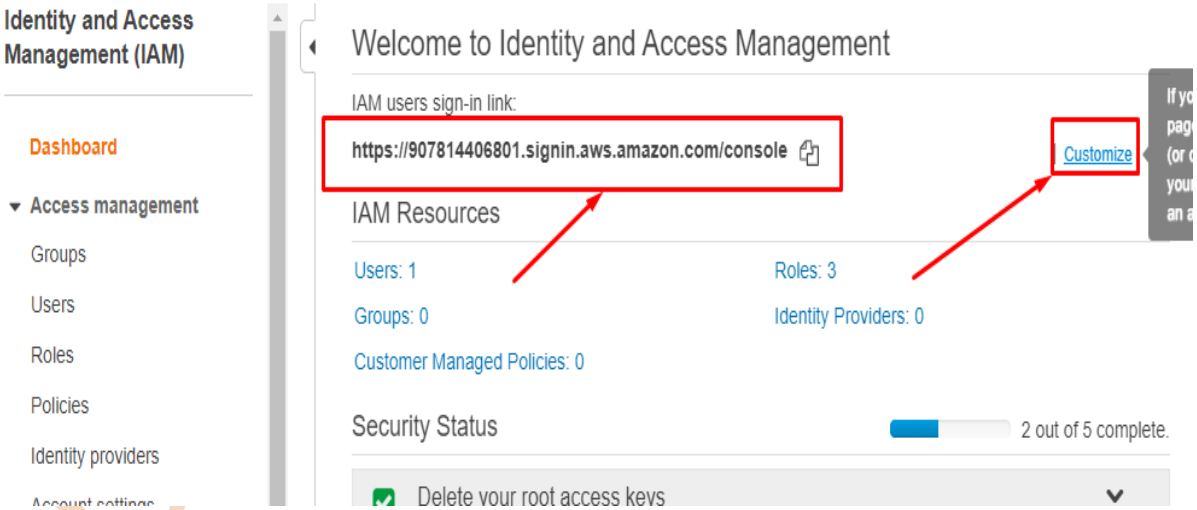

Users › ramesh
Summary
Delete user
User ARN arn:aws:iam::907814406801:user/ramesh
Path /
Creation time 2020-07-27 19:20 UTC+0400
Permissions
Groups
Tags
Security credentials
Access Advisor
Permissions policies (1 policy applied)
Add permissions
Add inline pol
Policy name
Policy type
Attached directly
IAMUserChangePassword
AWS managed policy
Permissions boundary (not set)

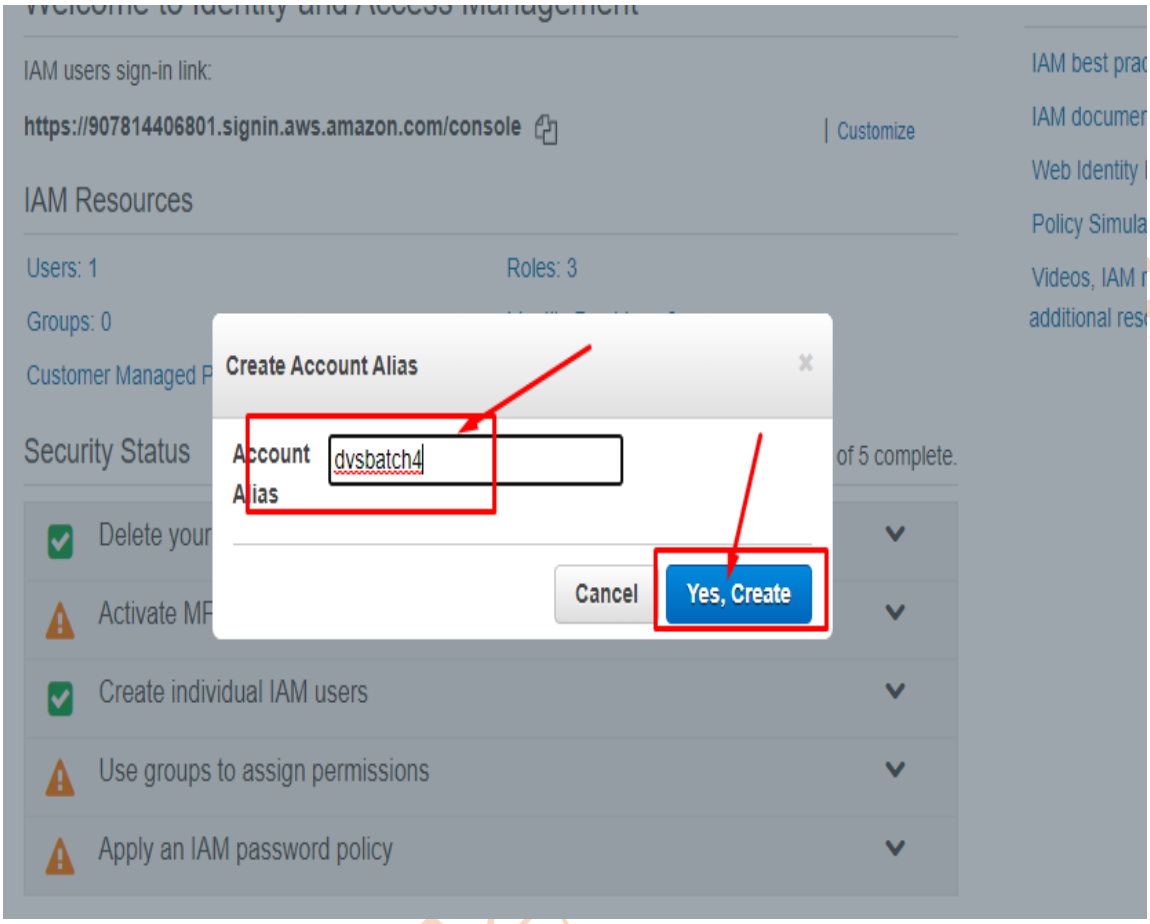




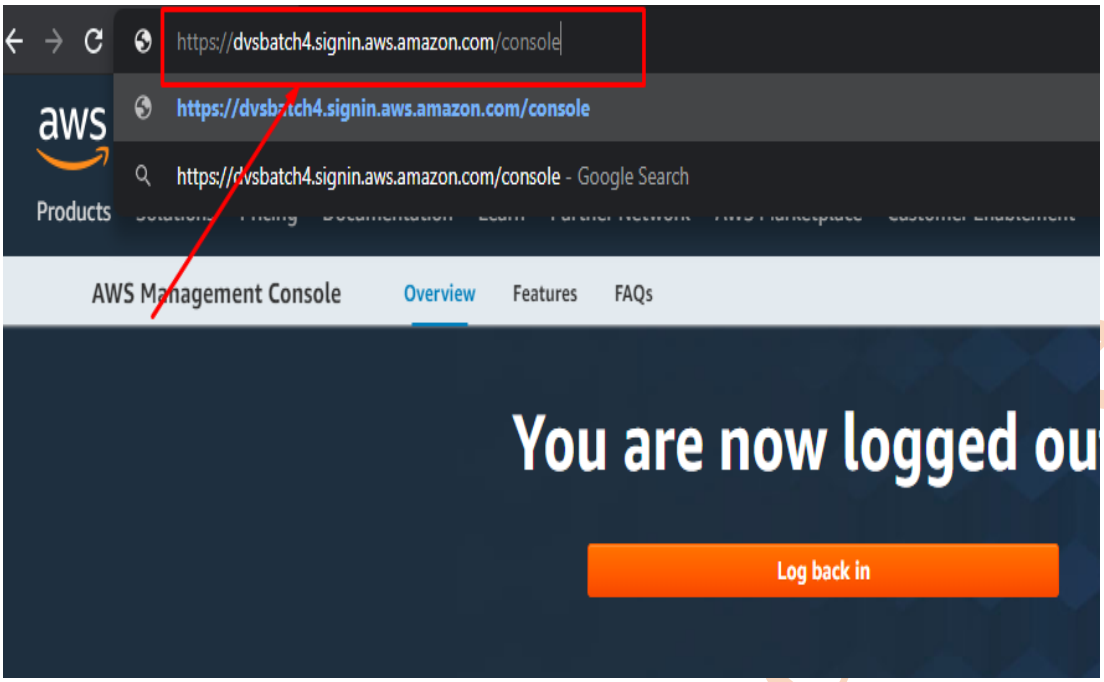
DVS Technologies Aws & Devops

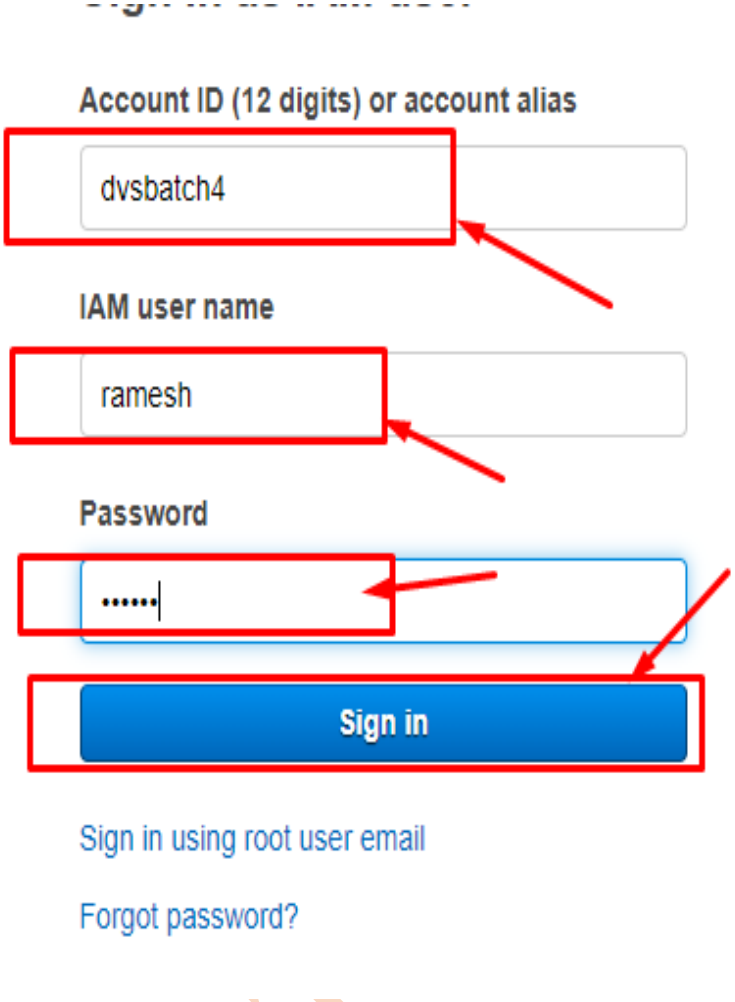


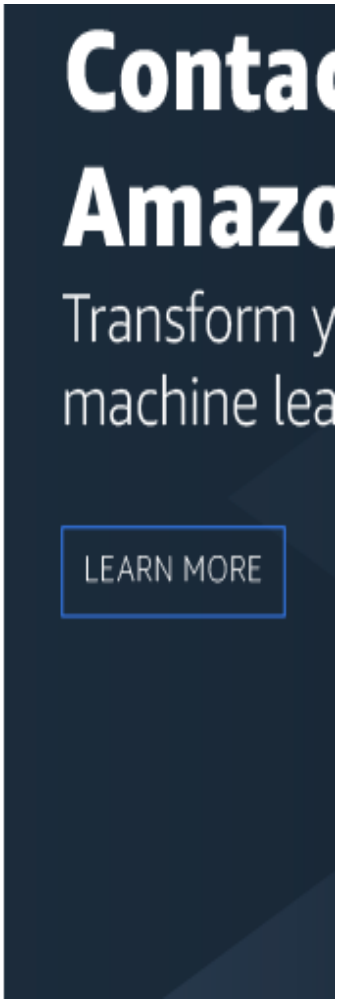


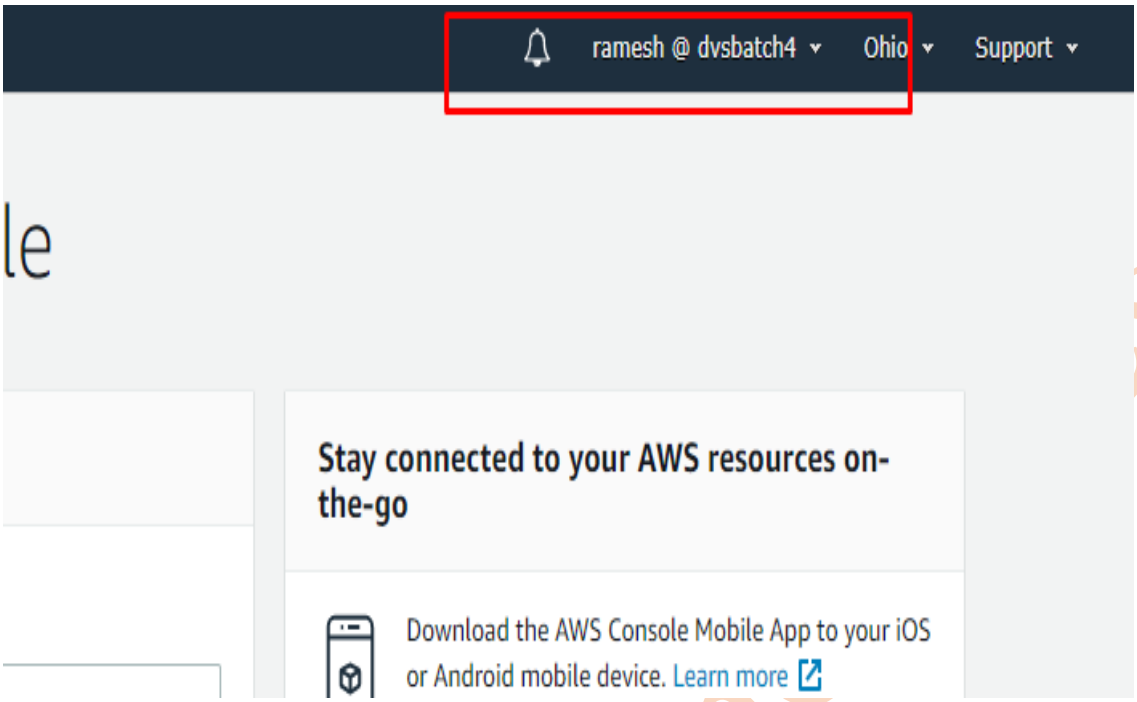


DVS Technologies Aws & Devops

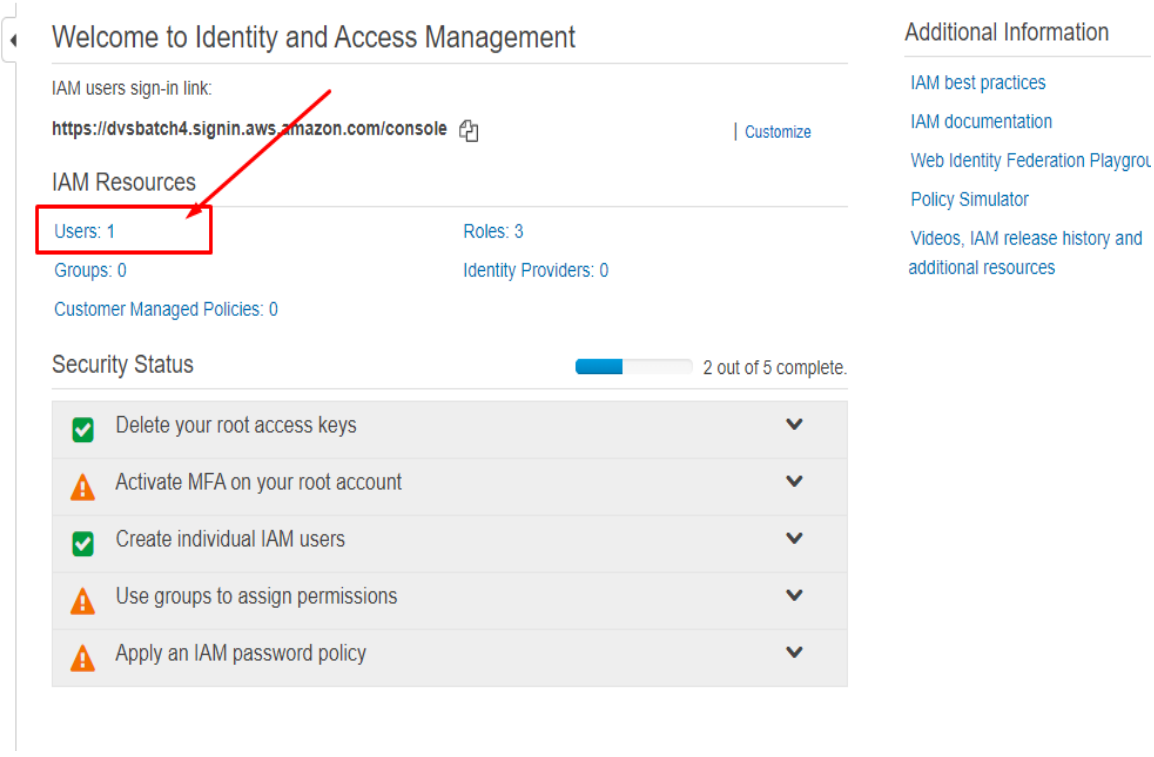


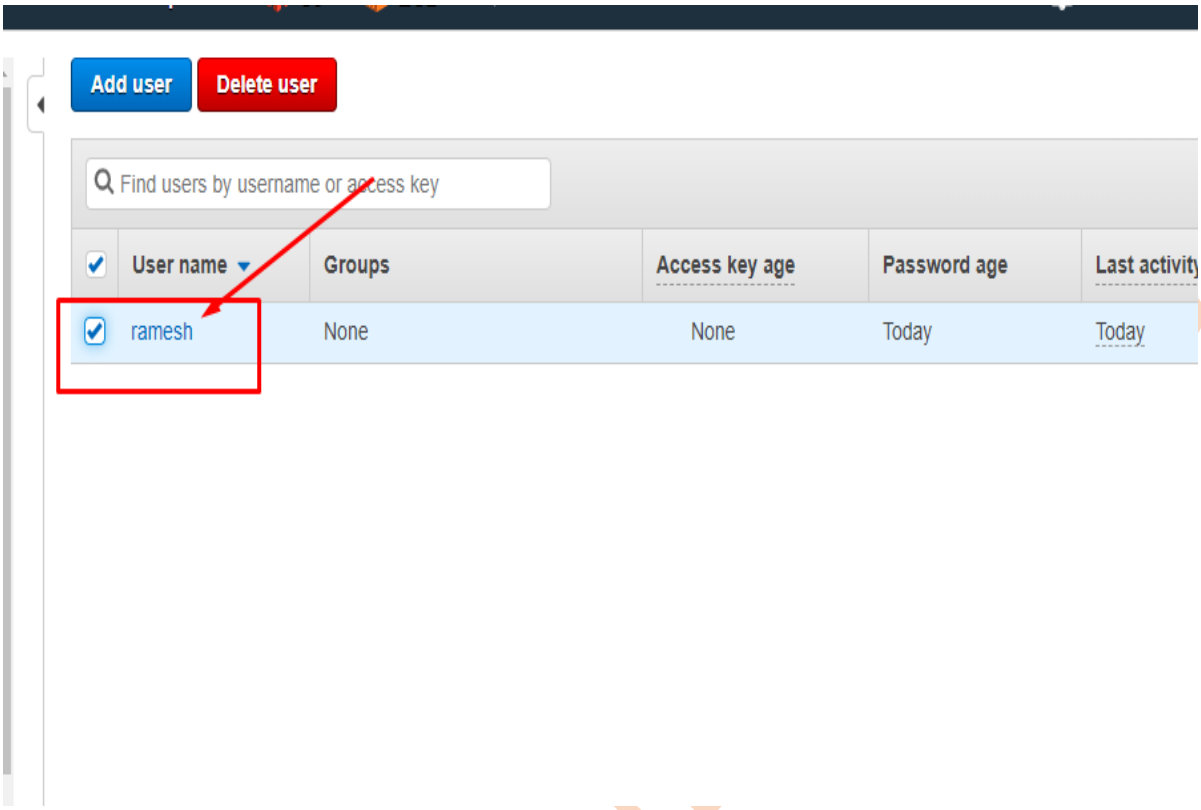

Account ID (12 digits) or account alias
dvsbatch4
IAM user name
ramesh
Password
Sign in
Sign in using root user email
Forgot password?


Contac
Amazo
Transform y
machine lea
LEARN MORE

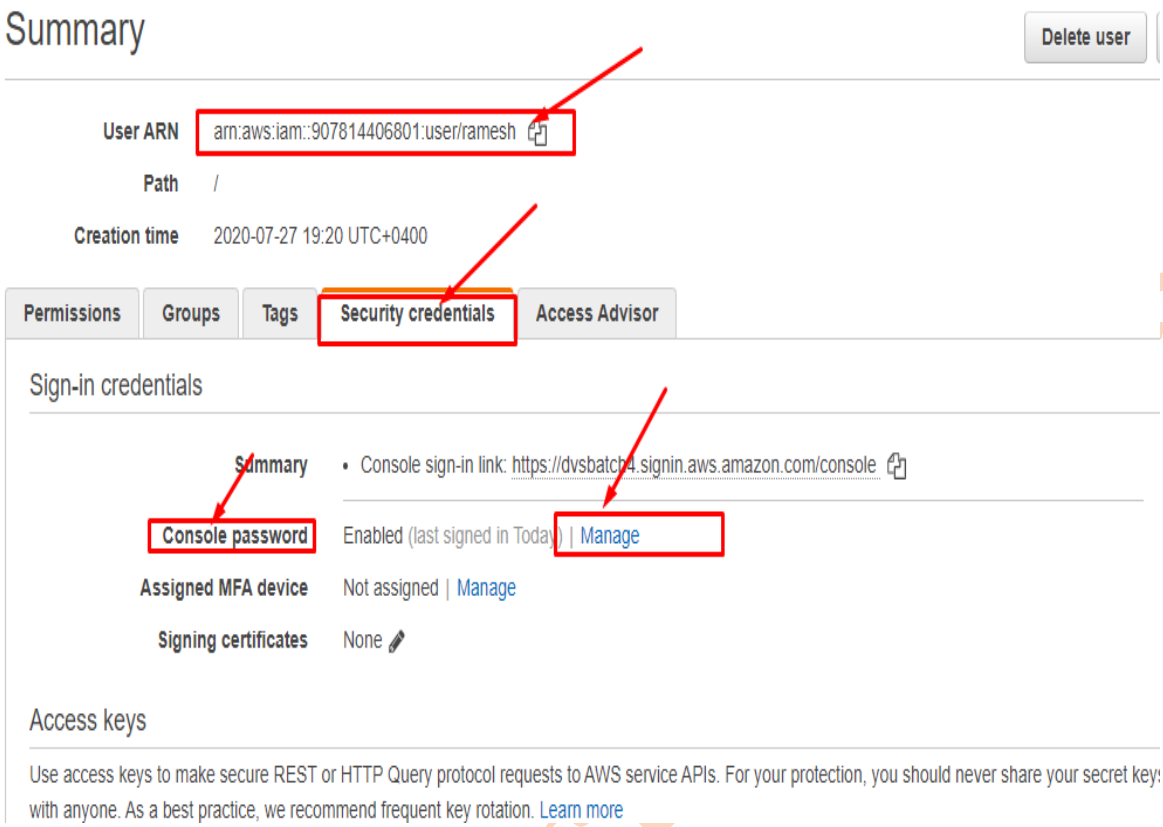


4. Reset user password

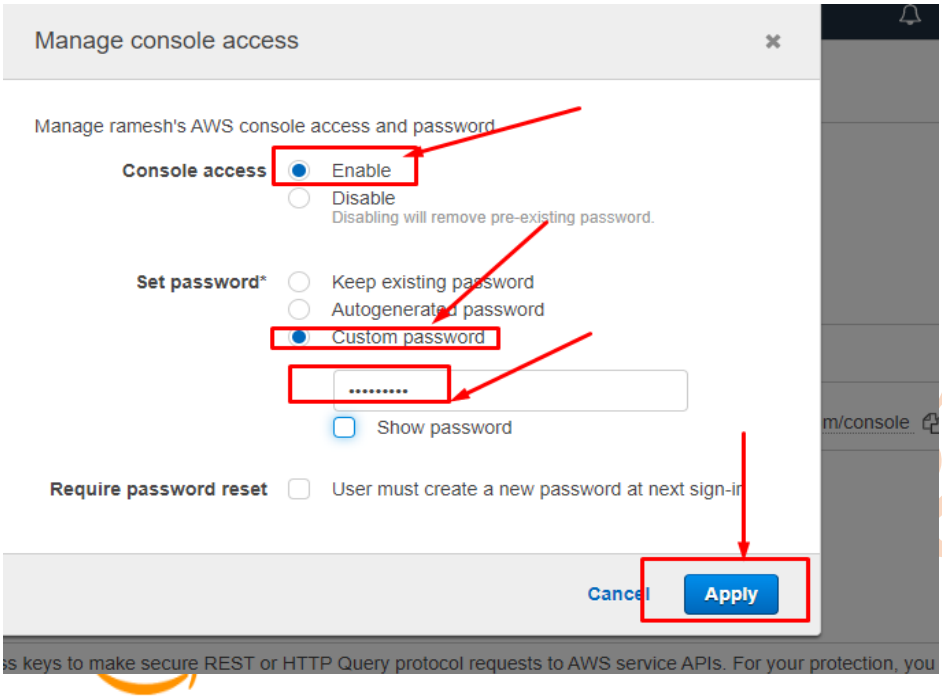


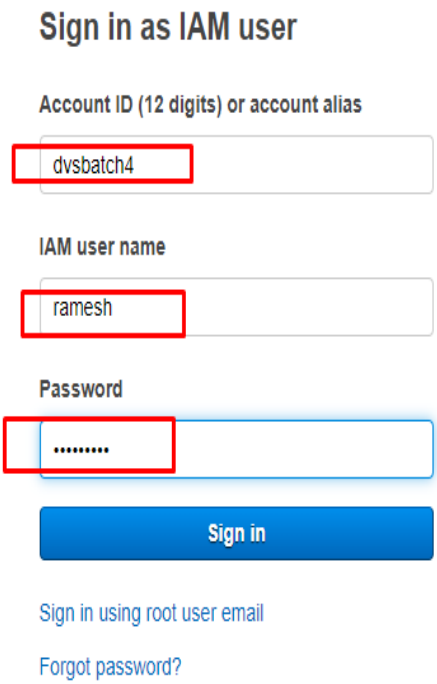

Add user
Delete user
Find users by username or access key
User name
Groups
Access key age
Password age
Last activity
ramesh
None
None
Today
Today

DVS Technologies Aws & Devops



DVS Technologies Aws & Devops

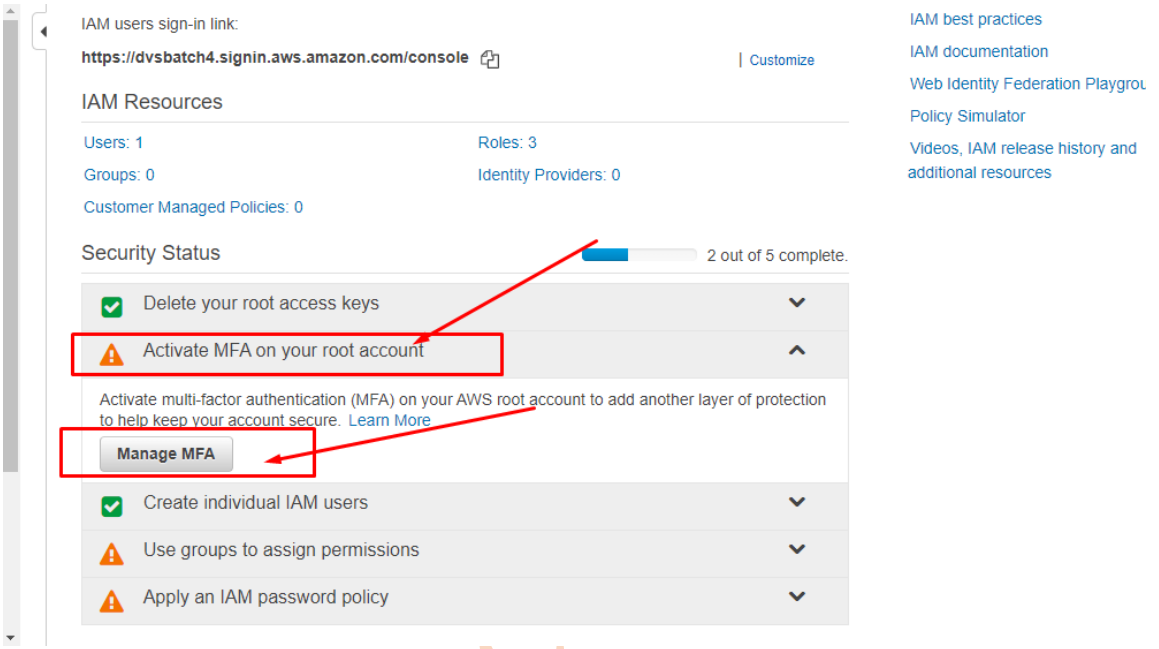


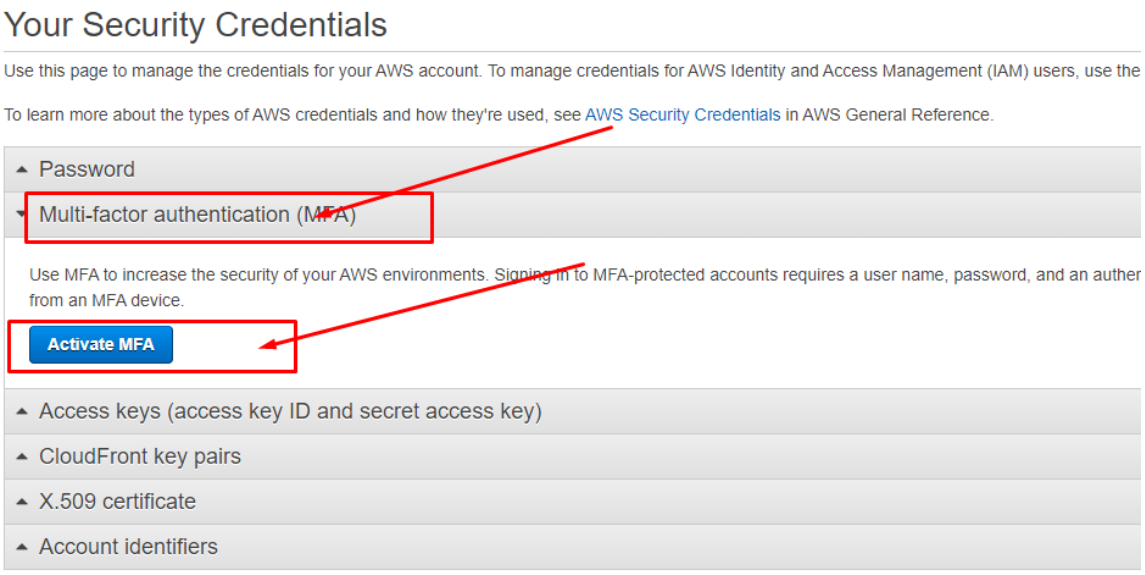


DVS Technologies Aws & Devops

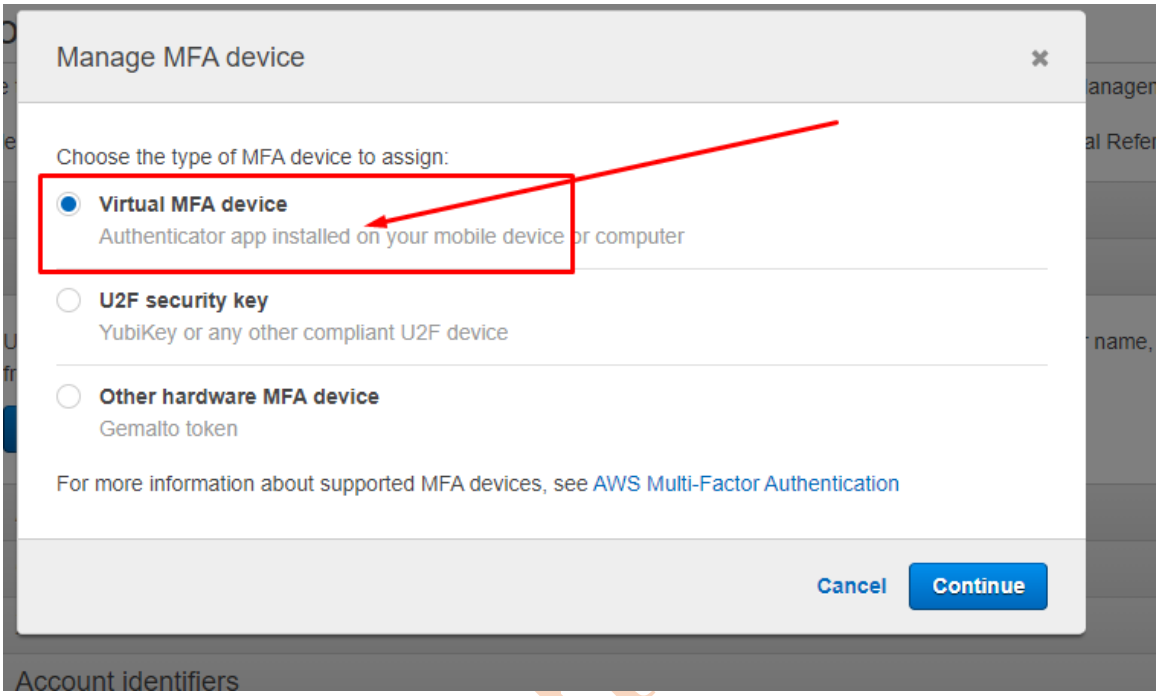
5. Working with MFA

Activating MFA for Root Account:

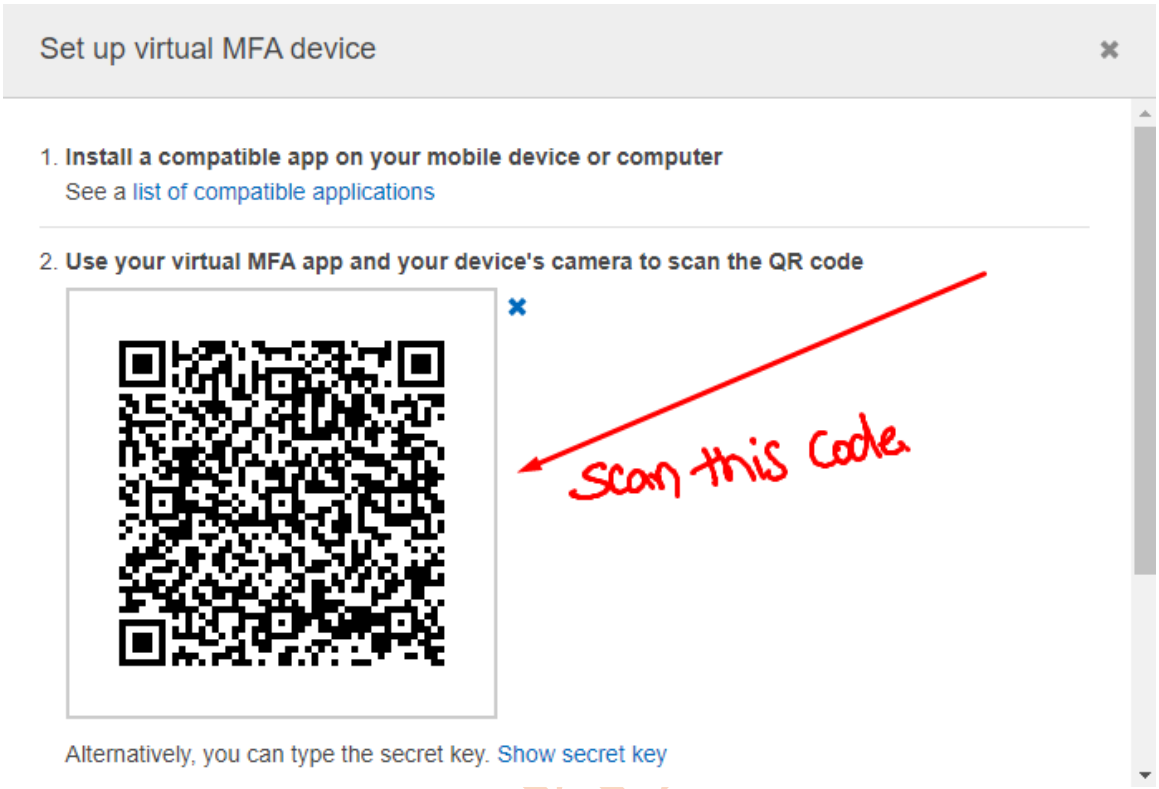


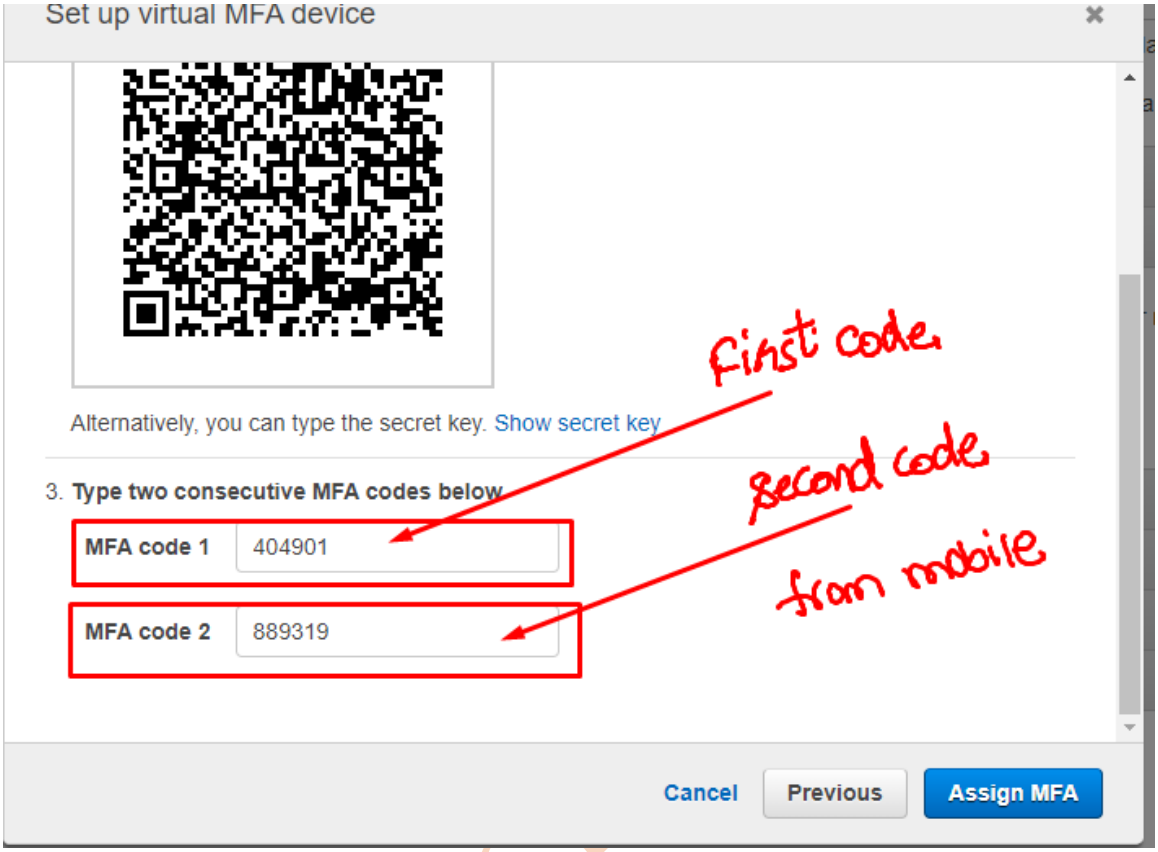


DVS Technologies Aws & Devops



DVS Technologies Aws & Devops

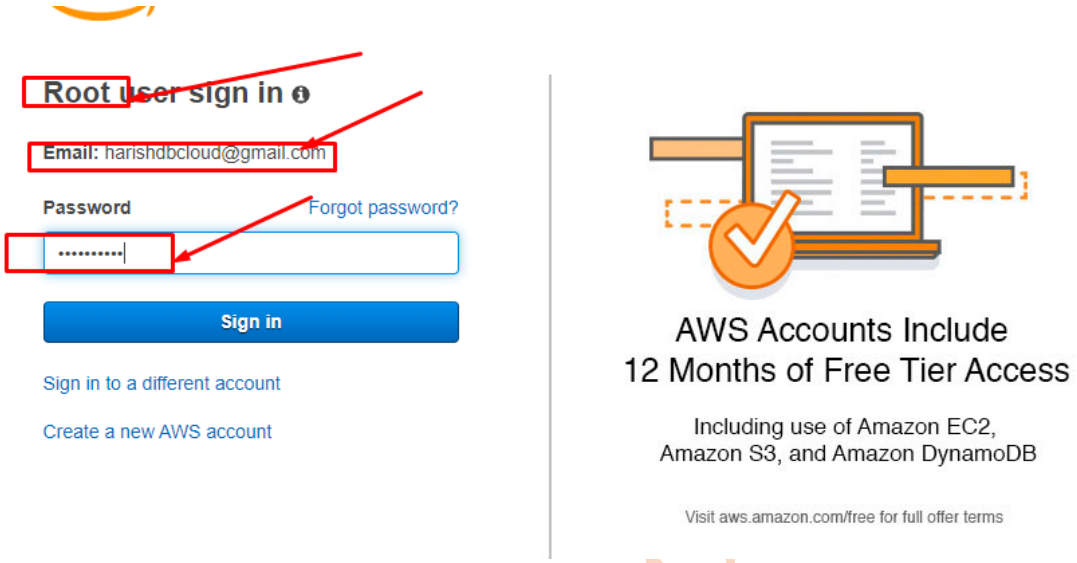



Set up virtual MFA device
Alternatively, you can type the secret key. Show secret key
3. Type two consecutive MFA codes below
MFA code 1
404901
MFA code 2
889319
first code
second code
from mobile
Cancel
Previous
Assign MFA

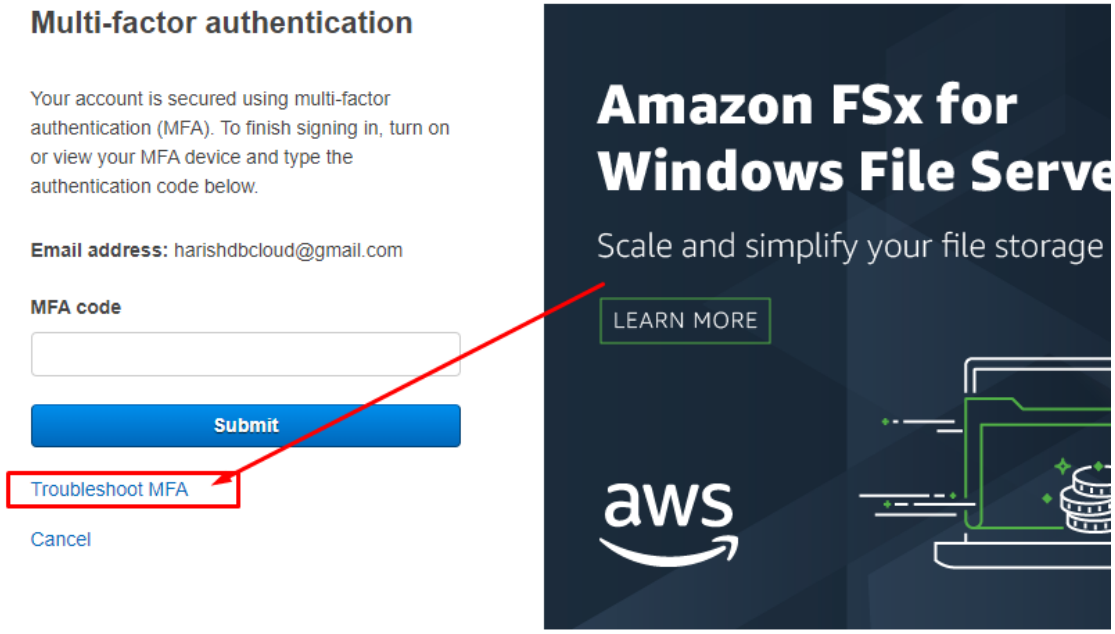

Set up virtual MFA device
You have successfully assigned virtual MFA
This virtual MFA will be required during sign-in.
Close

DVS Technologies Aws & Devops

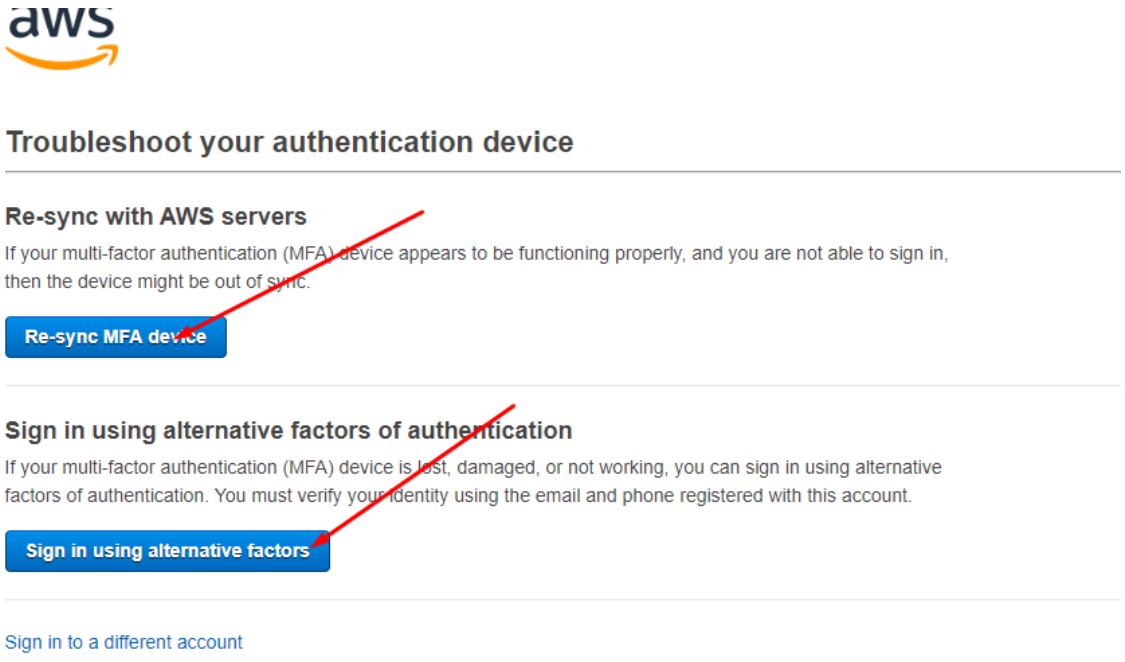
Verification:



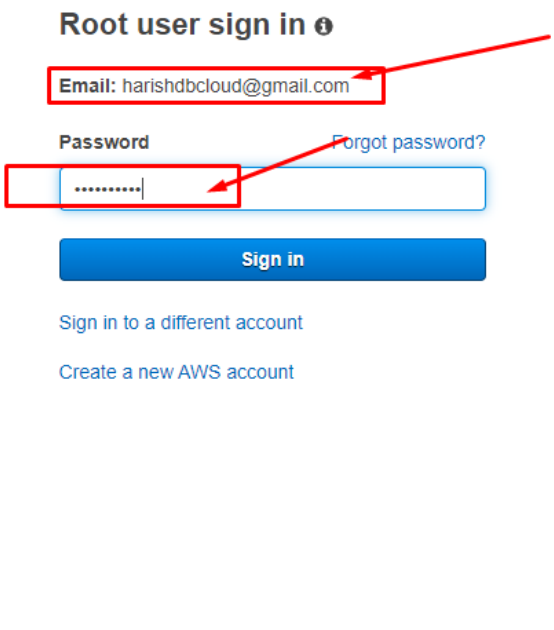
Troubleshooting MFA:

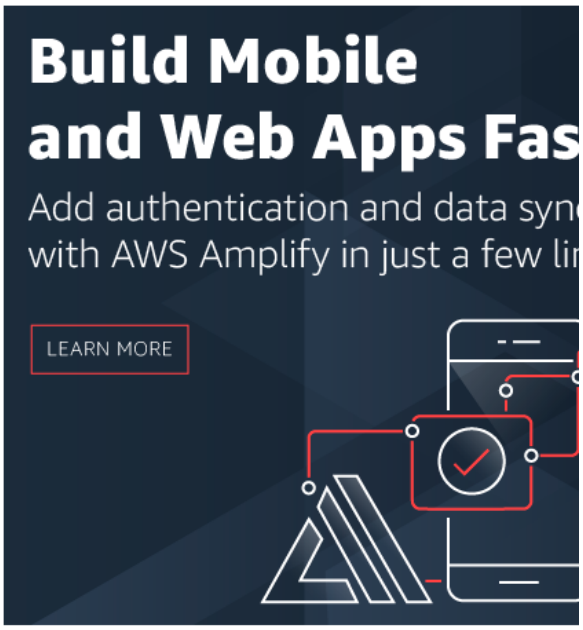


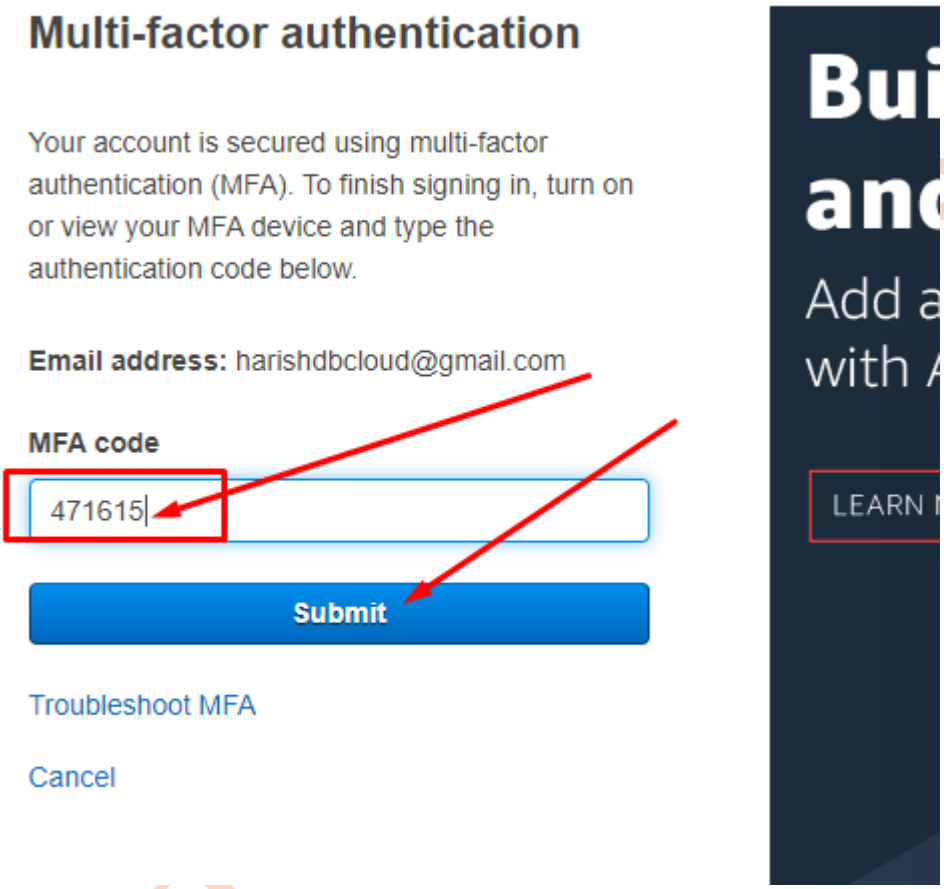
DVS Technologies Aws & Devops

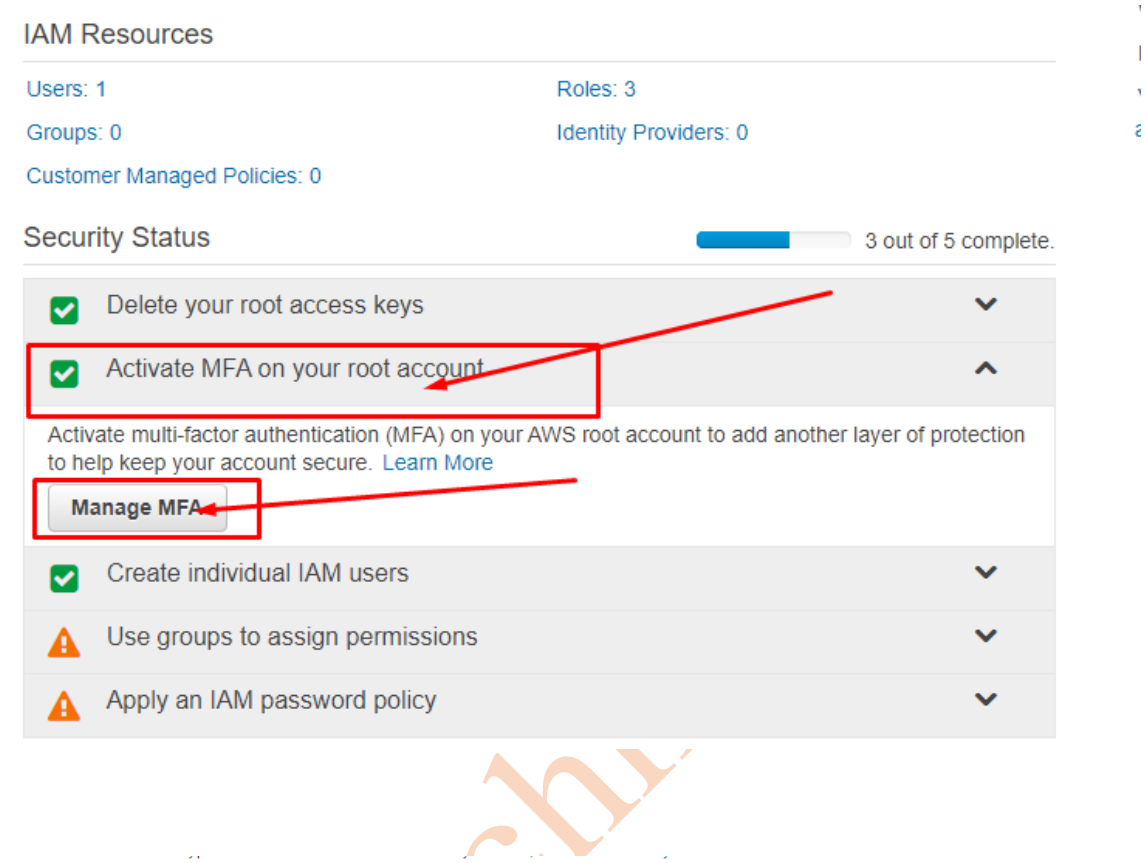


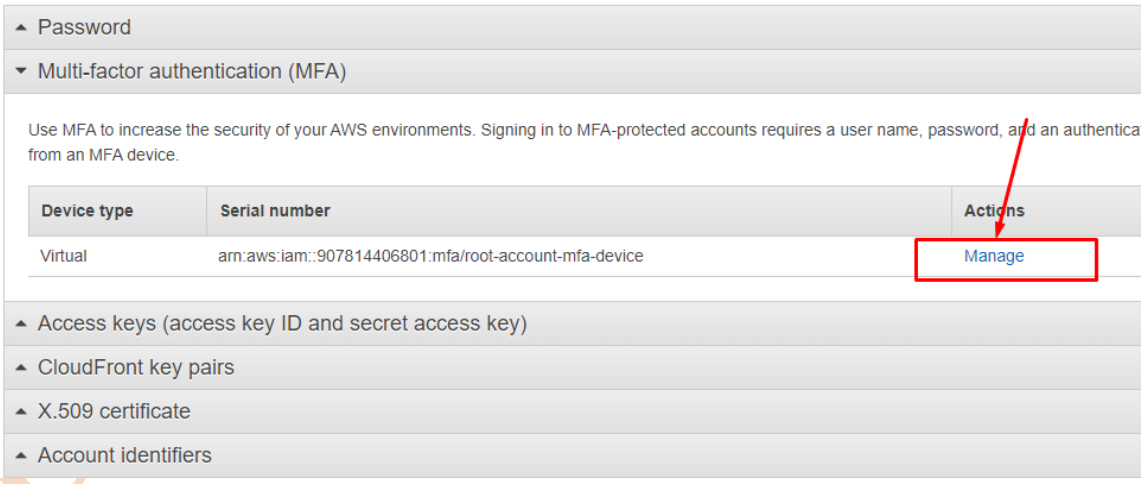
Deactivate MFA :

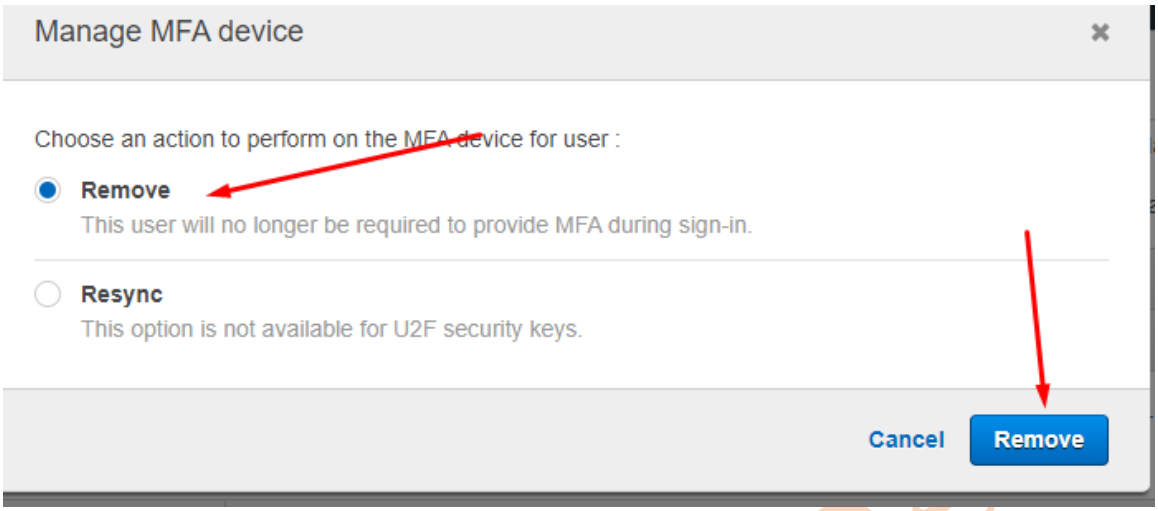





Multi-factor authentication
Your account is secured using multi-factor authentication (MFA). To finish signing in, turn on or view your MFA device and type the authentication code below.
Email address: harishdbcloud@gmail.com
MFA code
471615
Submit
Troubleshoot MFA
Cancel

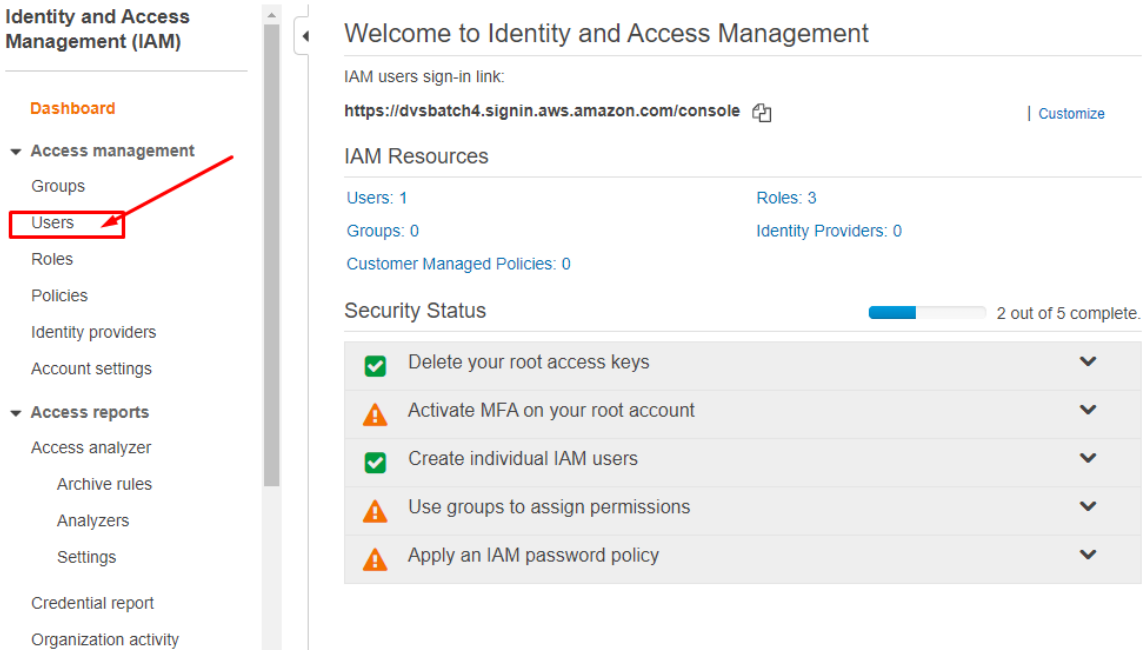

IAM Resources
Users: 1
Roles: 3
Groups: 0
Identity Providers: 0
Customer Managed Policies: 0
Security Status
3 out of 5 complete.
Delete your root access keys
Activate MFA on your root account
Activate multi-factor authentication (MFA) on your AWS root account to add another layer of protection to help keep your account secure. Learn More
Manage MFA
Create individual IAM users
Use groups to assign permissions
Apply an IAM password policy


Password
Multi-factor authentication (MFA)
Use MFA to increase the security of your AWS environments. Signing in to MFA-protected accounts requires a user name, password, and an authentica
from an MFA device.
Device type
Serial number
Actions
Virtual
arn:aws:iam::907814406801:mfa/root-account-mfa-device
Manage
Access keys (access key ID and secret access key)
CloudFront key pairs
X.509 certificate
Account identifiers

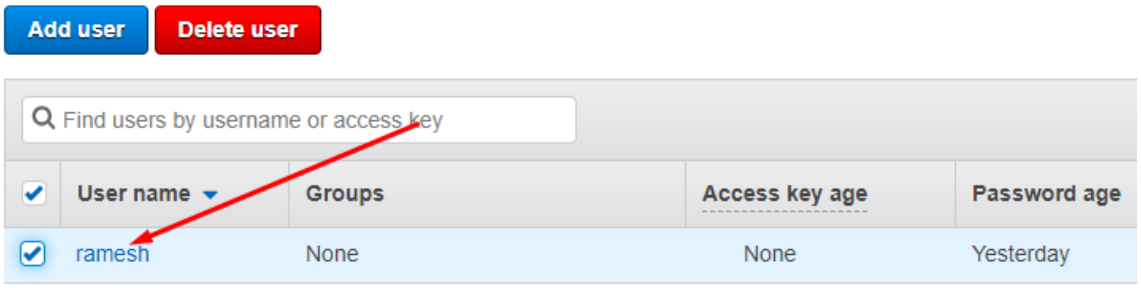


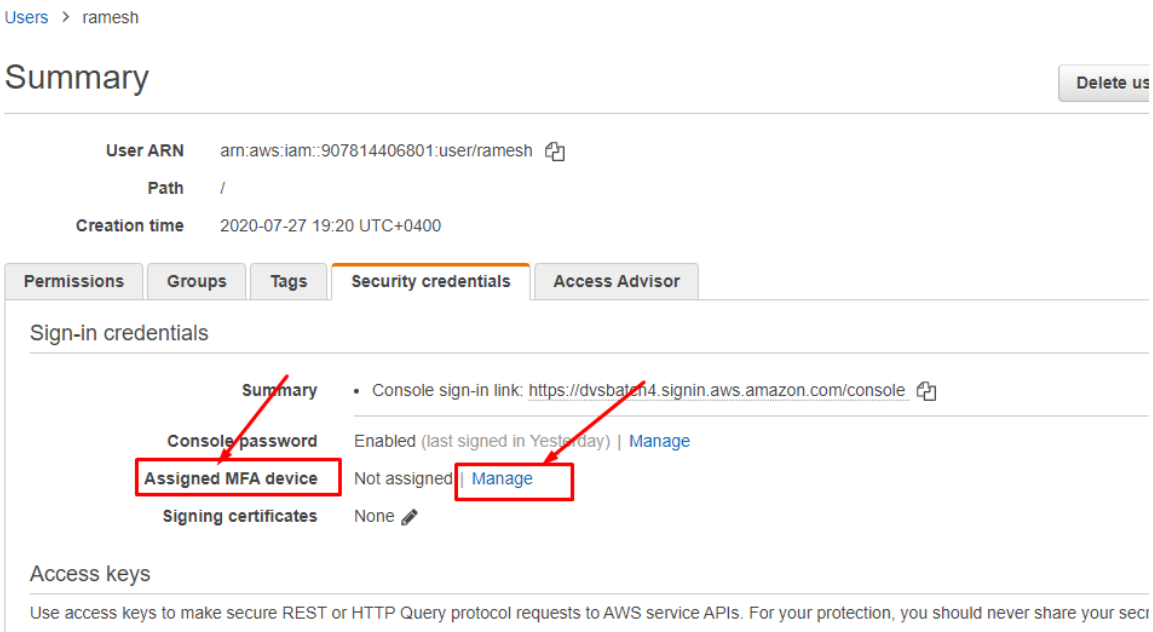
Post above changes try to login to the console again with your mail id and password & check the results.

Activate MFA for IAM Users:

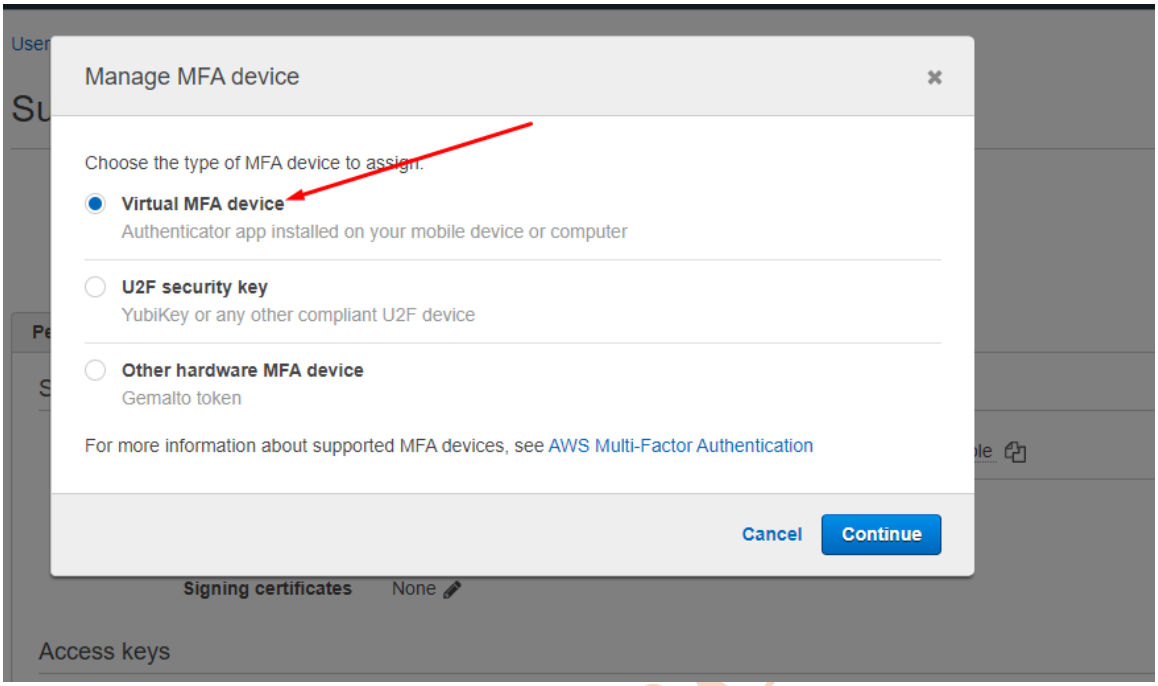


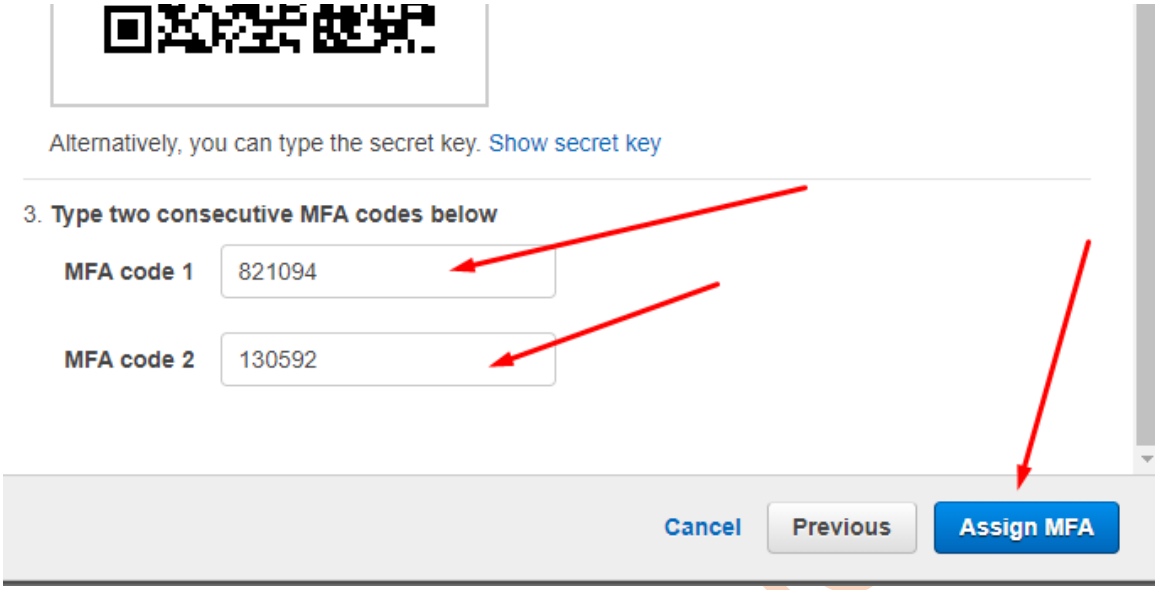
DVS Technologies Aws & Devops

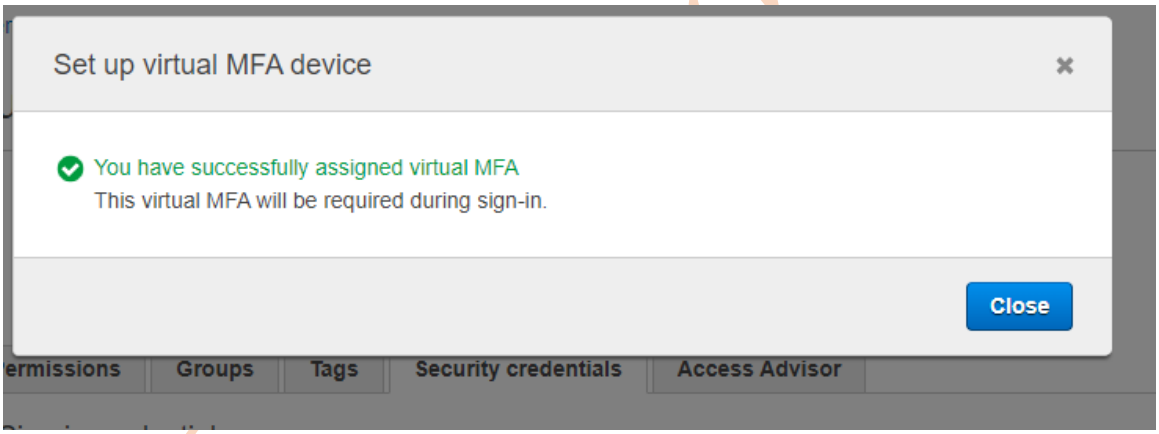




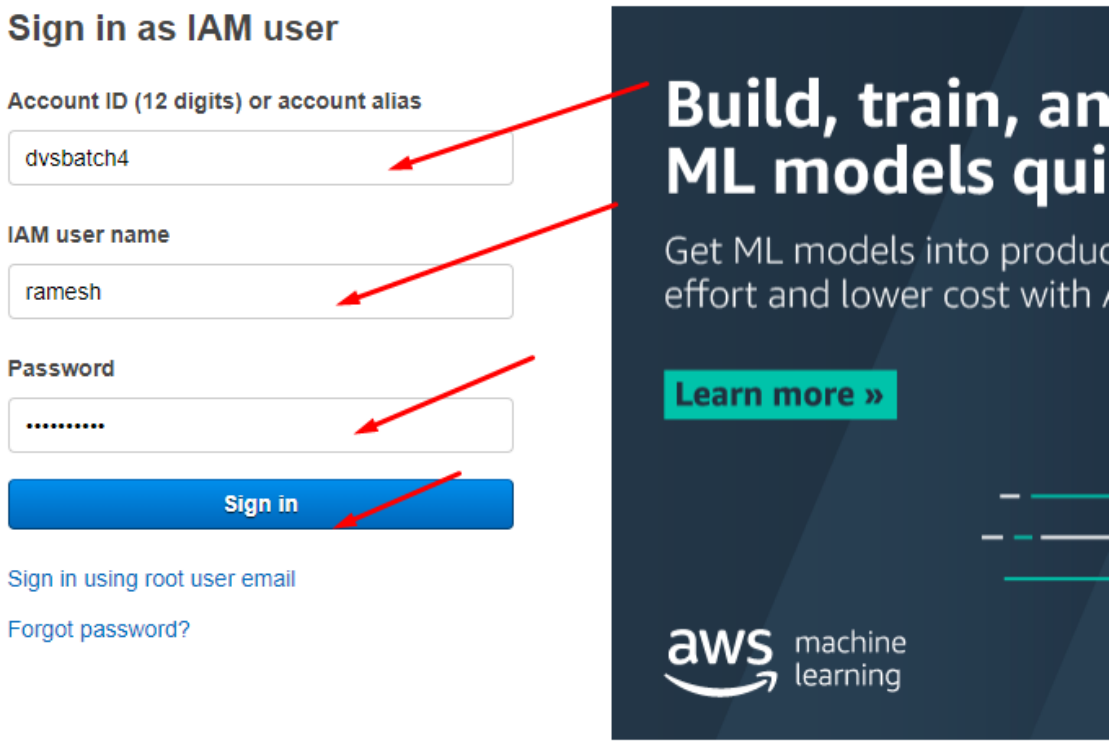
DVS Technologies Aws & Devops

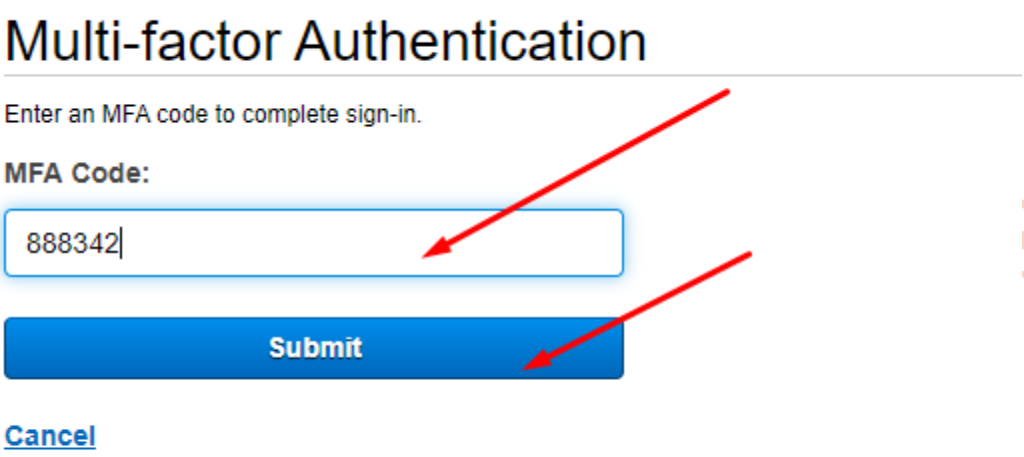


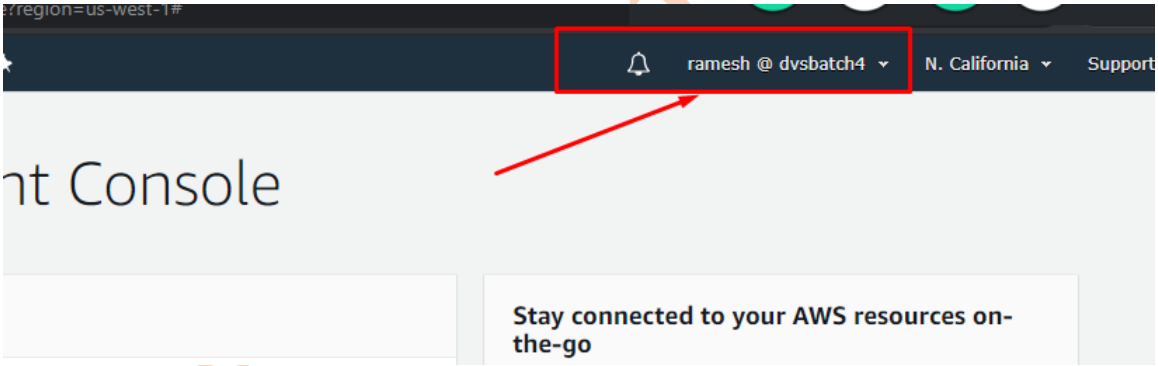

Alternatively, you can type the secret key. Show secret key
3. Type two consecutive MFA codes below
MFA code 1
821094
MFA code 2
130592
Cancel
Previous
Assign MFA


Set up virtual MFA device
You have successfully assigned virtual MFA
This virtual MFA will be required during sign-in.
Close
Groups
Tags
Security credentials
Access Advisor

Verification:

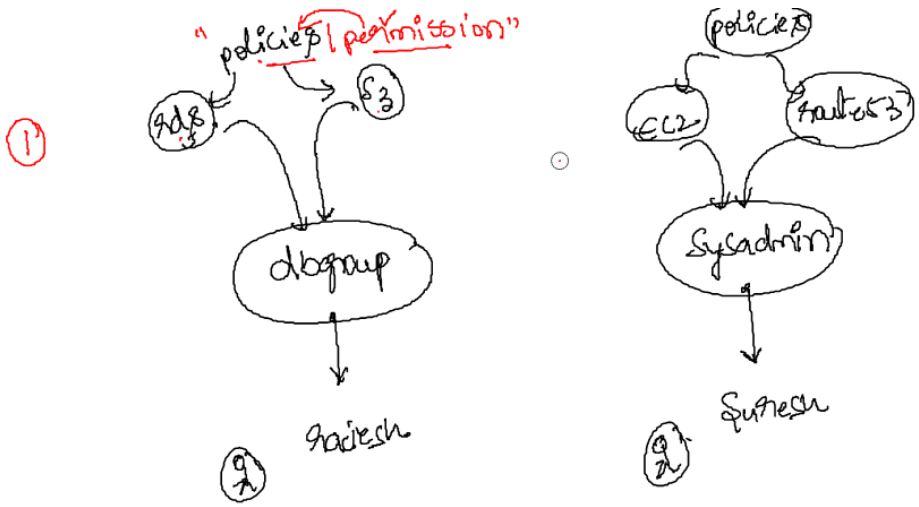



Multi-factor Authentication
Enter an MFA code to complete sign-in.
MFA Code:
888342
Submit
Cancel

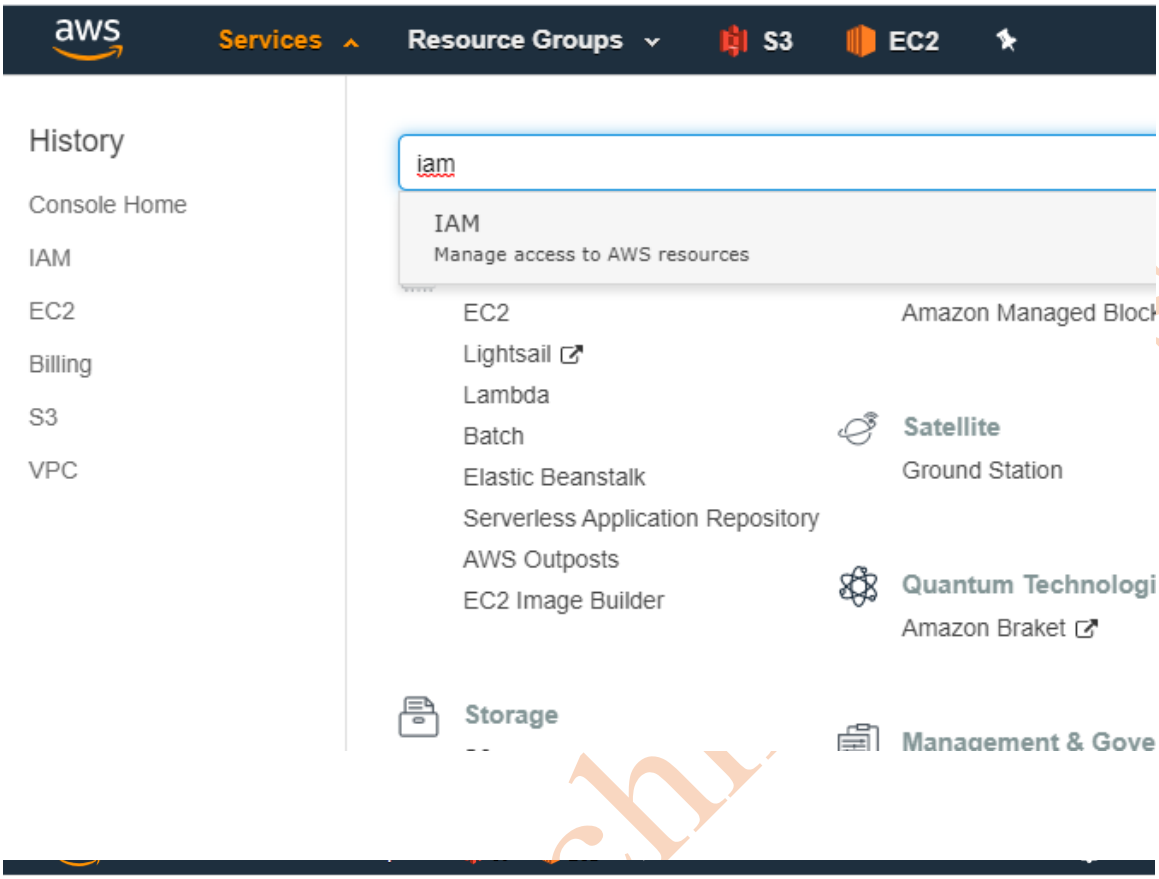

ramesh @ dvsbatch4
N. California
Support
nt Console
Stay connected to your AWS resources on-the-go

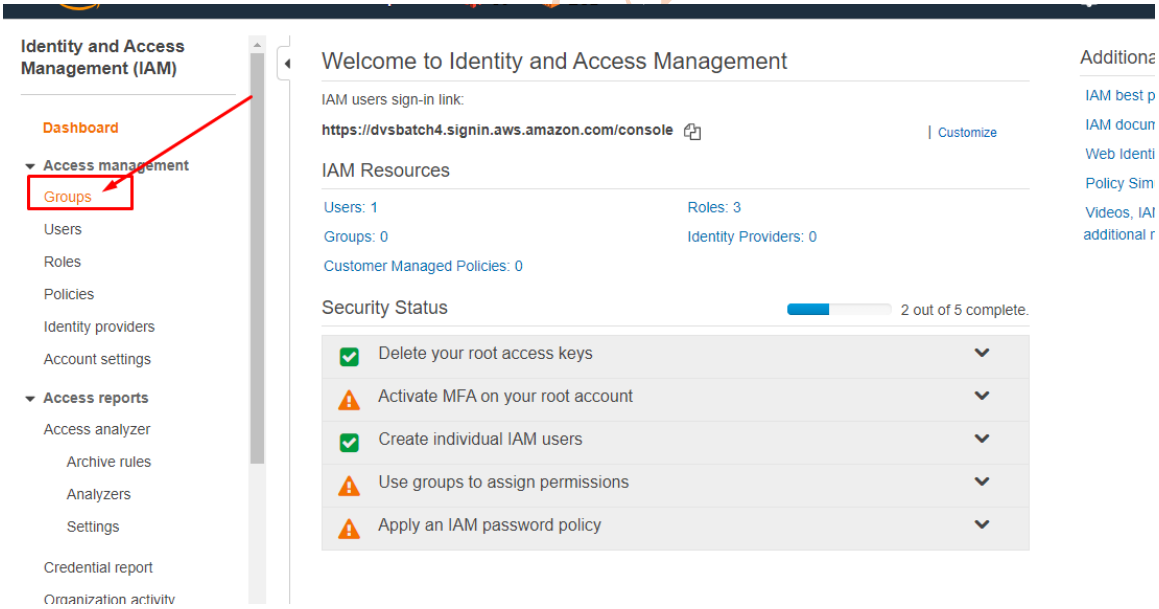
6. Working with Groups

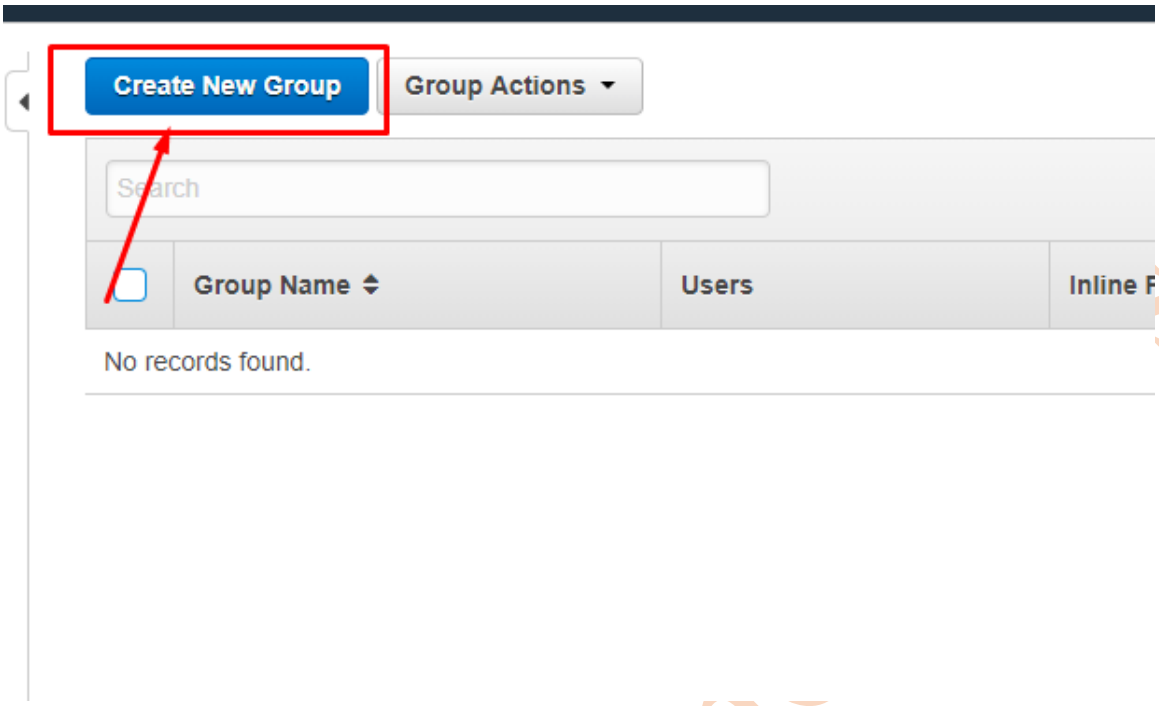
Requirement:

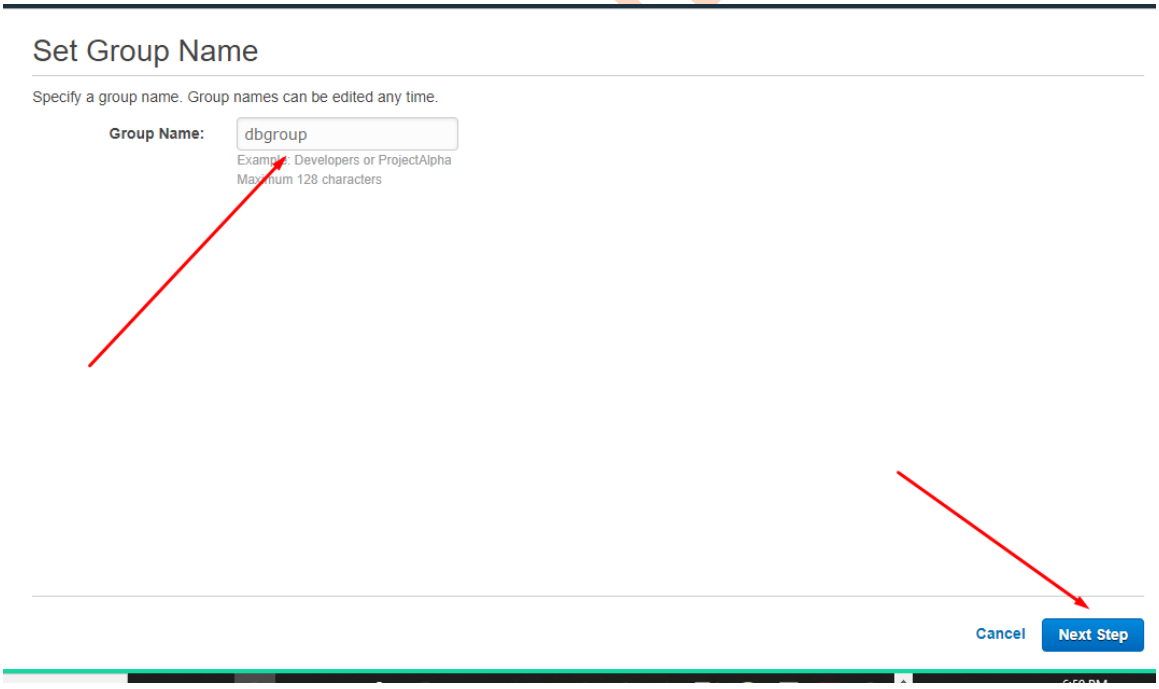


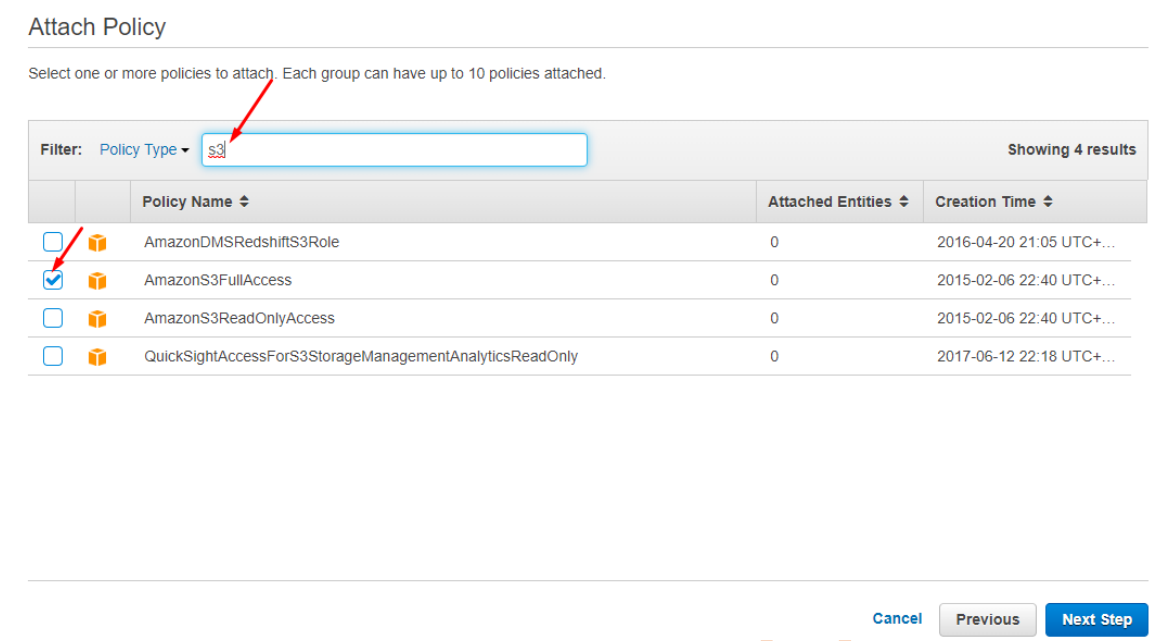
DVS Technologies Aws & Devops

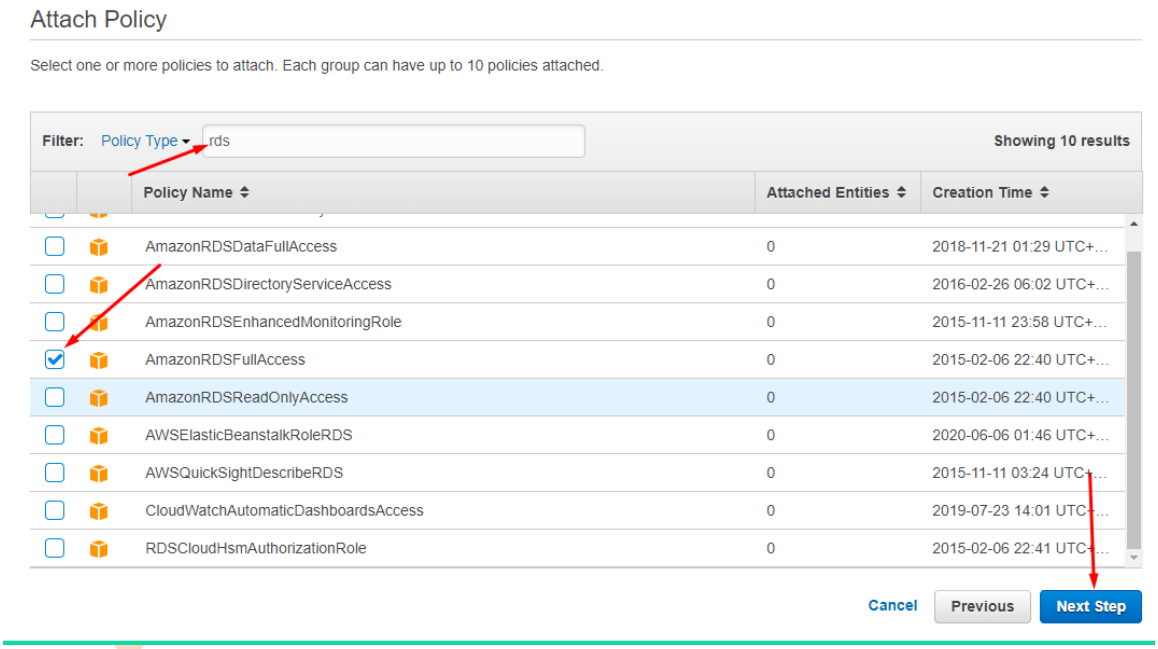


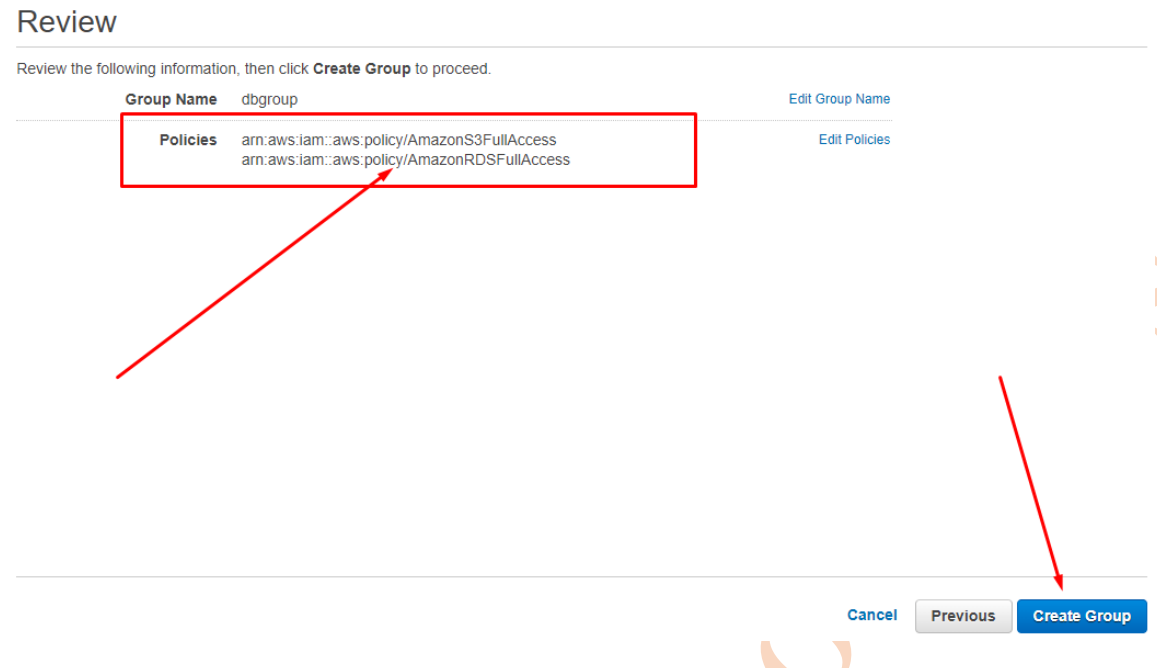


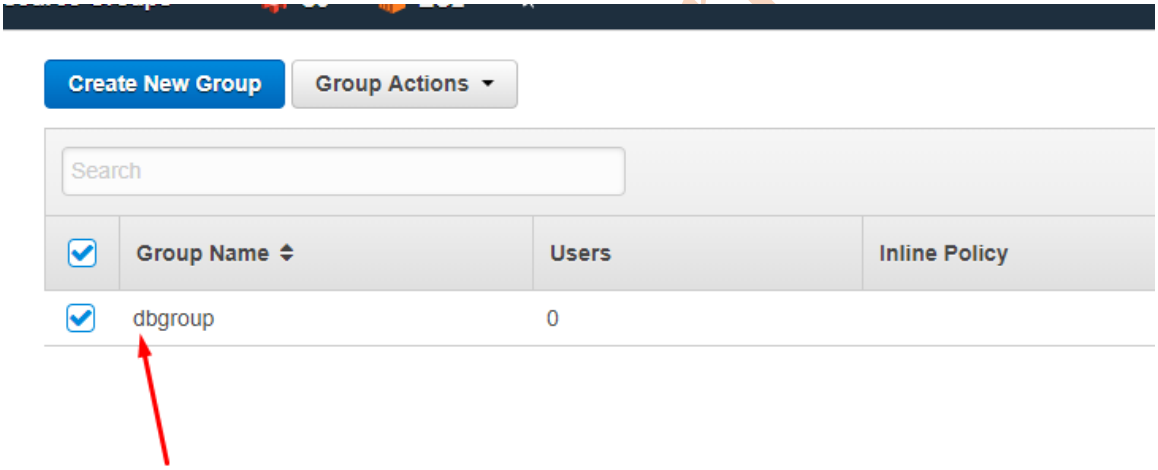

Create New Group
Group Actions
Search
Group Name
Users
Inline F
No records found.


Set Group Name
Specify a group name. Group names can be edited any time.
Group Name:
dbgroup
Example: Developers or ProjectAlpha
Maximum 128 characters
Cancel
Next Step

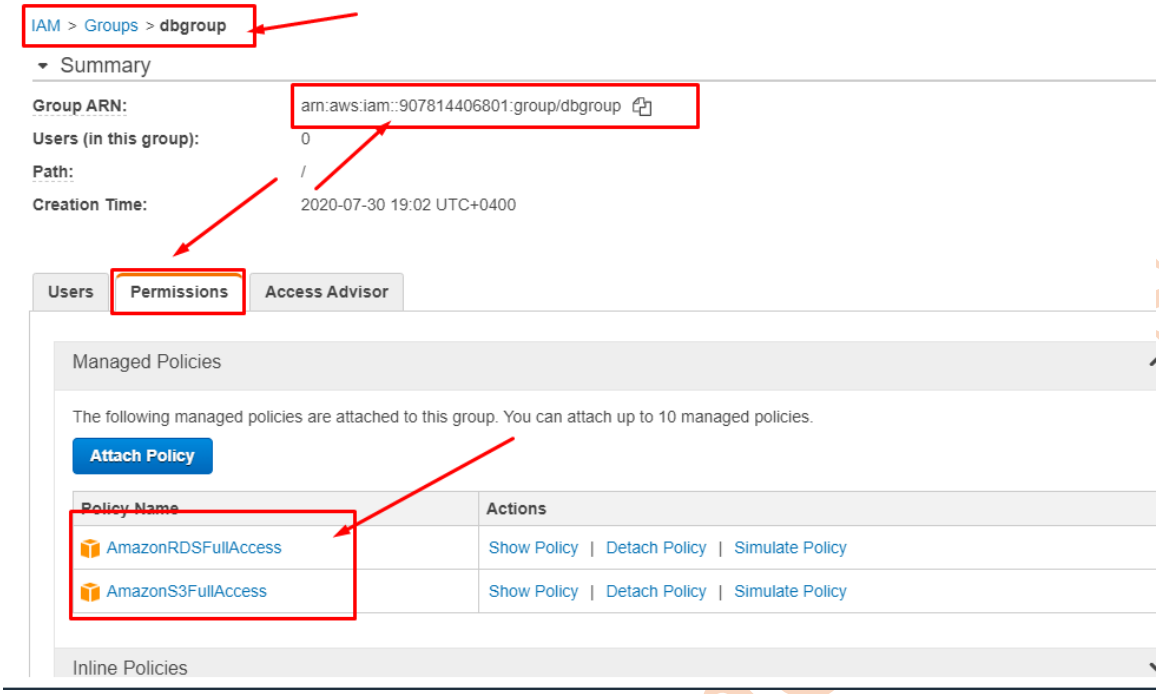

Attach Policy
Select one or more policies to attach. Each group can have up to 10 policies attached.
Filter: Policy Type s3
Showing 4 results
Policy Name
Attached Entities
Creation Time
AmazonDMSRedshiftS3Role 0 2016-04-20 21:05 UTC+...
AmazonS3FullAccess 0 2015-02-06 22:40 UTC+...
AmazonS3ReadOnlyAccess 0 2015-02-06 22:40 UTC+...
QuickSightAccessForS3StorageManagementAnalyticsReadOnly 0 2017-06-12 22:18 UTC+...
Cancel
Previous
Next Step


Attach Policy
Select one or more policies to attach. Each group can have up to 10 policies attached.
Filter: Policy Type rds
Showing 10 results
Policy Name
Attached Entities
Creation Time
AmazonRDSDataFullAccess 0 2018-11-21 01:29 UTC+...
AmazonRDSDirectoryServiceAccess 0 2016-02-26 06:02 UTC+...
AmazonRDSEnhancedMonitoringRole 0 2015-11-11 23:58 UTC+...
AmazonRDSFullAccess 0 2015-02-06 22:40 UTC+...
AmazonRDSReadOnlyAccess 0 2015-02-06 22:40 UTC+...
AWSElasticBeanstalkRoleRDS 0 2020-06-06 01:46 UTC+...
AWSQuickSightDescribeRDS 0 2015-11-11 03:24 UTC+...
CloudWatchAutomaticDashboardsAccess 0 2019-07-23 14:01 UTC+...
RDSCloudHsmAuthorizationRole 0 2015-02-06 22:41 UTC+...
Cancel
Previous
Next Step

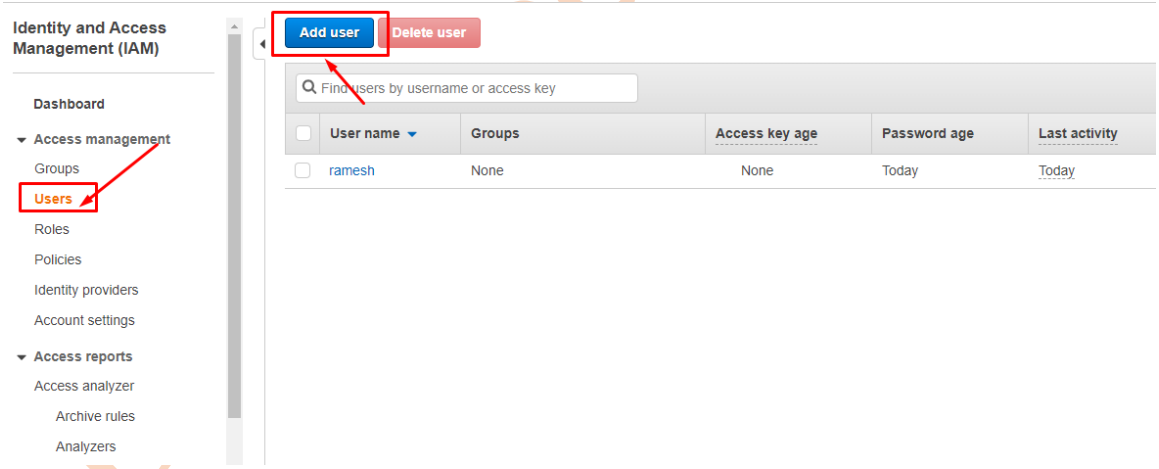

Review
Review the following information, then click Create Group to proceed.
Group Name
dbgroup
Edit Group Name
Policies
arn:aws:iam::aws:policy/AmazonS3FullAccess
arn:aws:iam::aws:policy/AmazonRDSFullAccess
Edit Policies
Cancel
Previous
Create Group


Create New Group
Group Actions
Search
Group Name
Users
Inline Policy
dbgroup
0

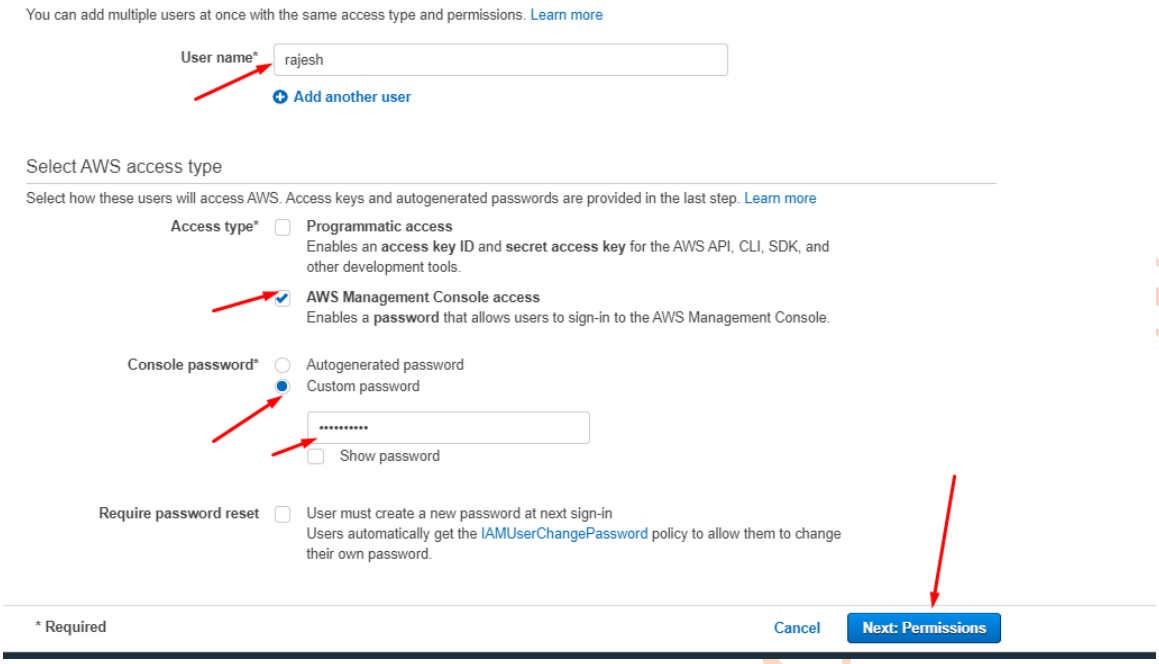
DVS Technologies Aws & Devops

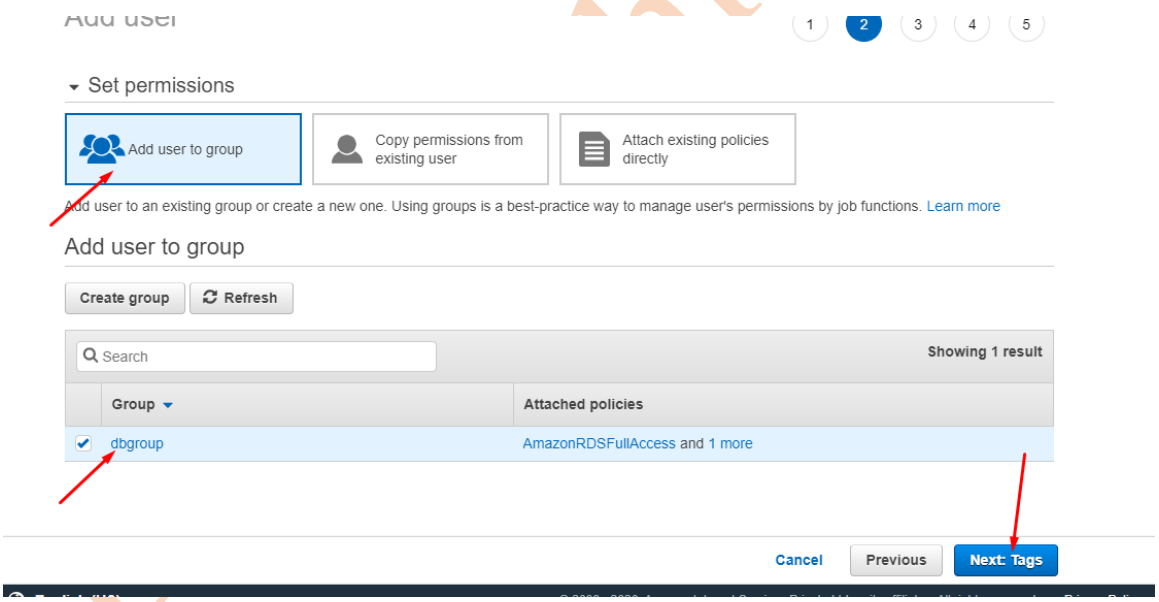


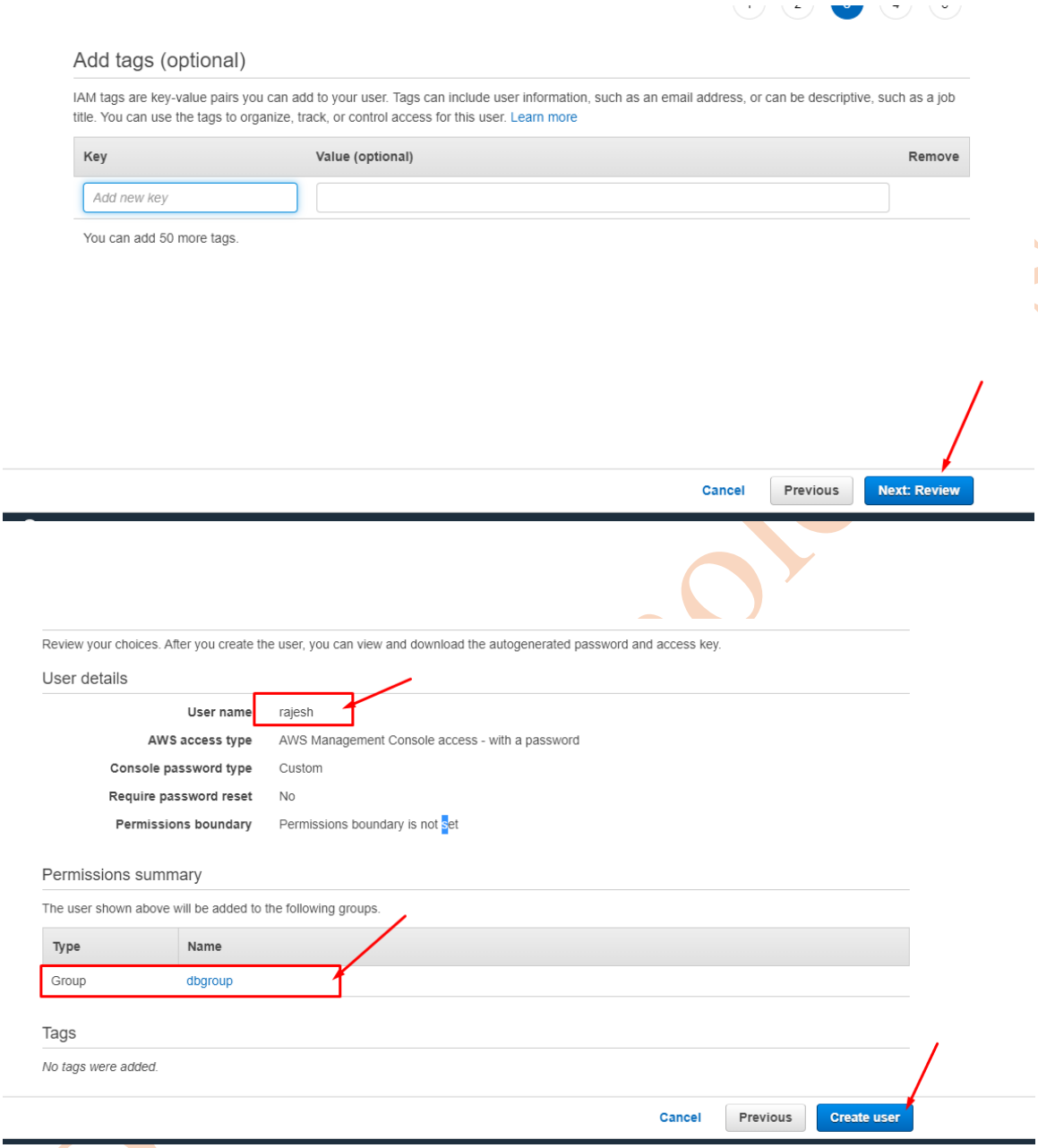
Creating rajesh user:

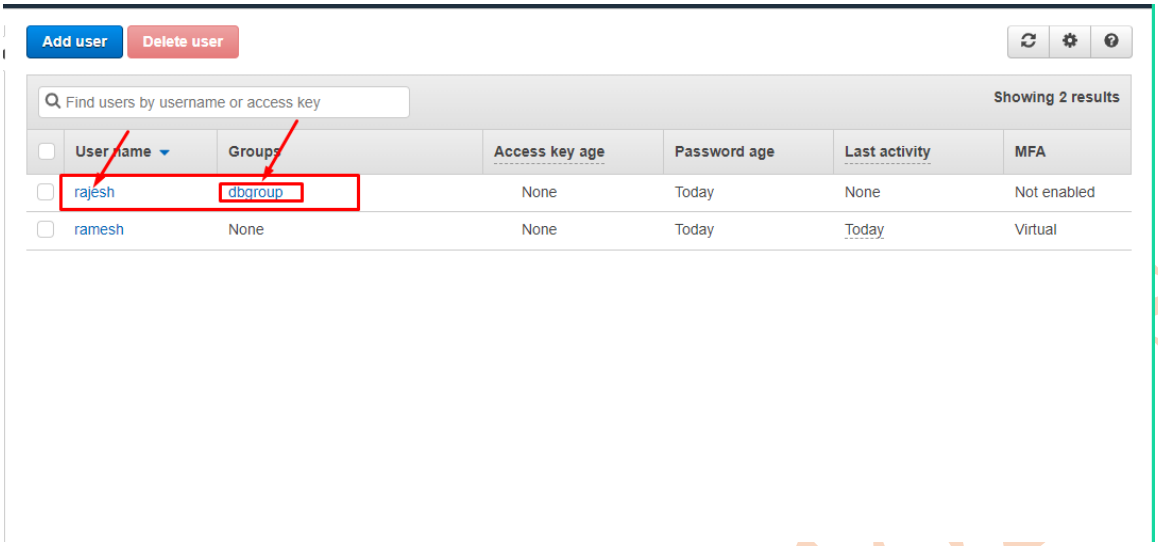


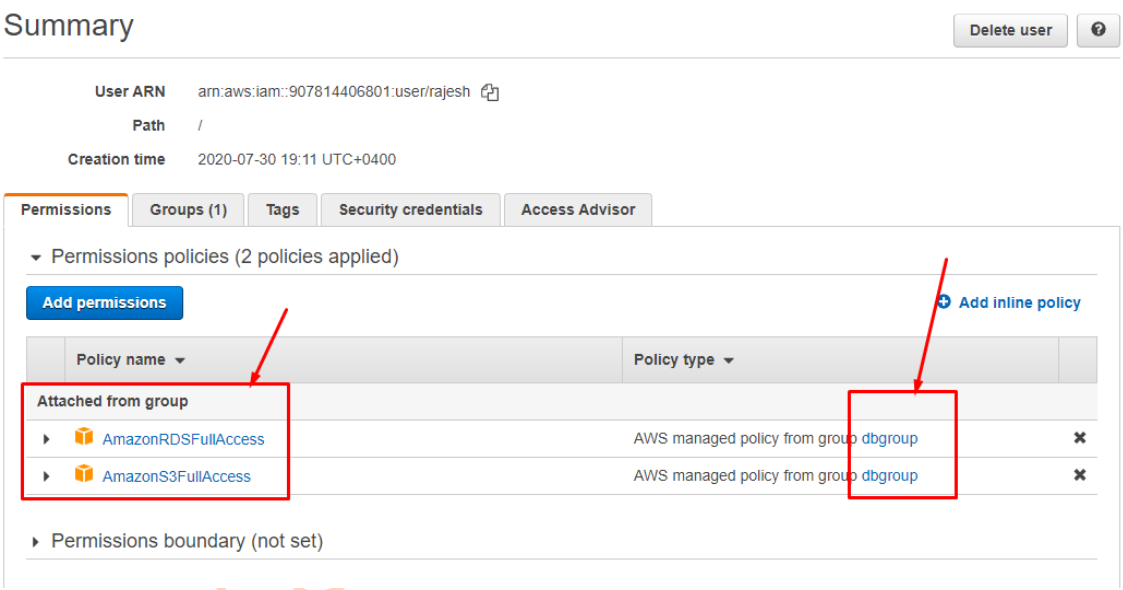
DVS Technologies Aws & Devops






Add tags (optional)
IAM tags are key-value pairs you can add to your user. 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 user. Learn more
Key
Value (optional)
Remove
Add new key
You can add 50 more tags.
Cancel
Previous
Next: Review
Review your choices. After you create the user, you can view and download the autogenerated password and access key.
User details
User name
rajesh
AWS access type
AWS Management Console access - with a password
Console password type
Custom
Require password reset
No
Permissions boundary
Permissions boundary is not set
Permissions summary
The user shown above will be added to the following groups.
Type
Name
Group
dbgroup
Tags
No tags were added.
Cancel
Previous
Create user

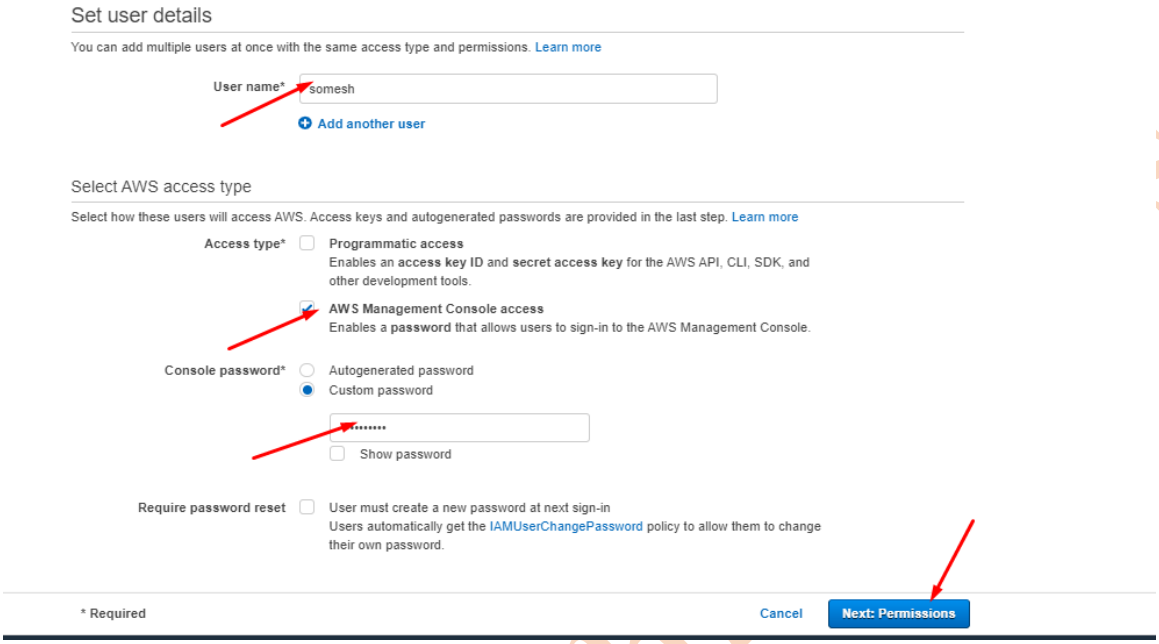


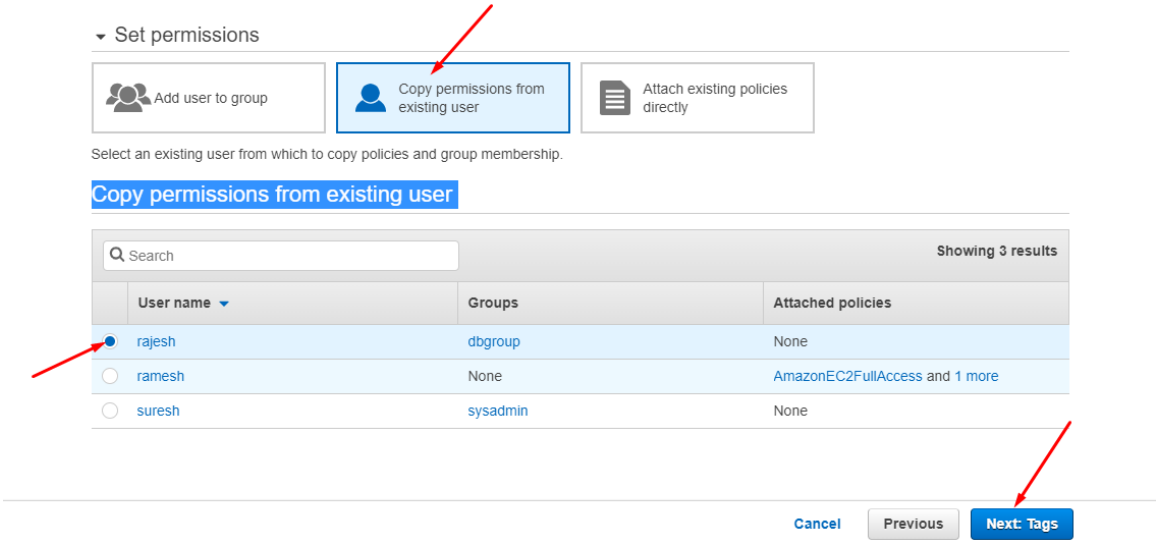


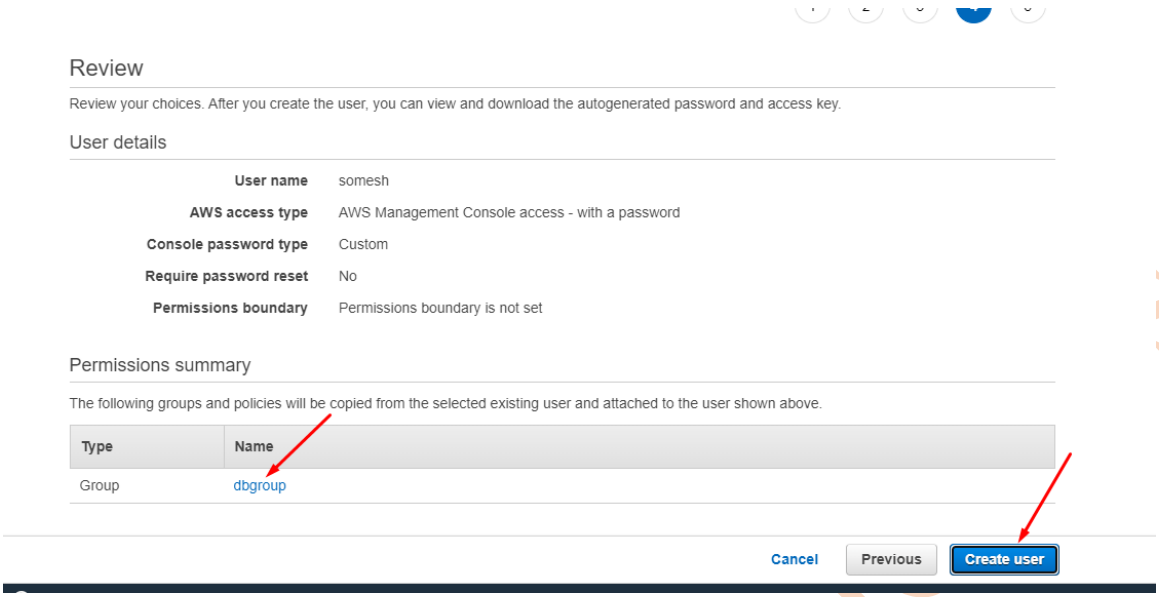
Note: Please replicate same for "sysadmin group" & "Suresh" user:

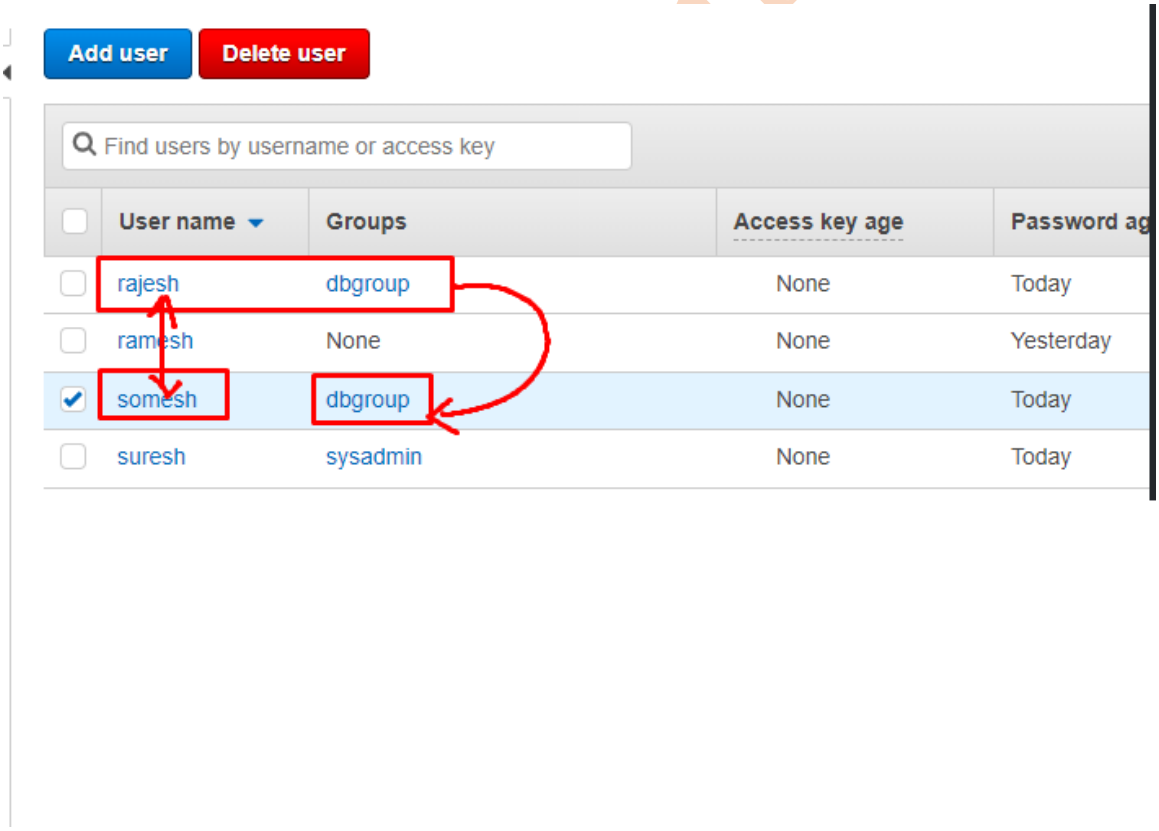
DVS Technologies Aws & Devops

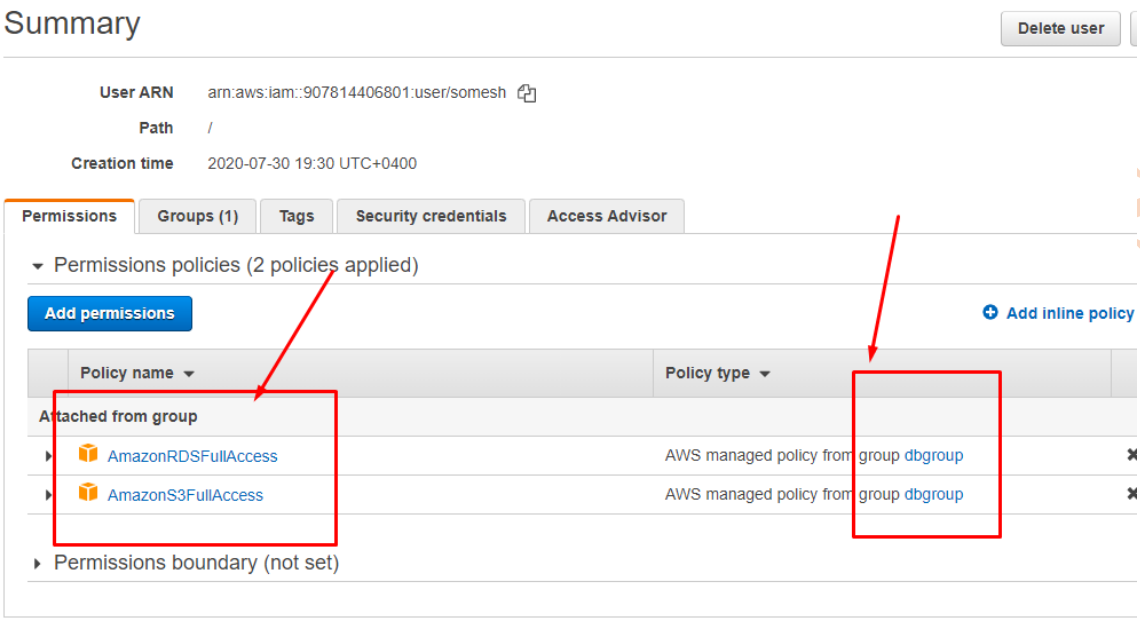
Replicating access from existing user:






Review
Review your choices. After you create the user, you can view and download the autogenerated password and access key.
User details
User name somesh
AWS access type AWS Management Console access - with a password
Console password type Custom
Require password reset No
Permissions boundary Permissions boundary is not set
Permissions summary
The following groups and policies will be copied from the selected existing user and attached to the user shown above.
Type Name
Group dbgroup
Cancel Previous Create user


Add user
Delete user
Find users by username or access key
User name
Groups
Access key age
Password ag
rajesh dbgroup None Today
ramesh None None Yesterday
somesh dbgroup None Today
suresh sysadmin None Today

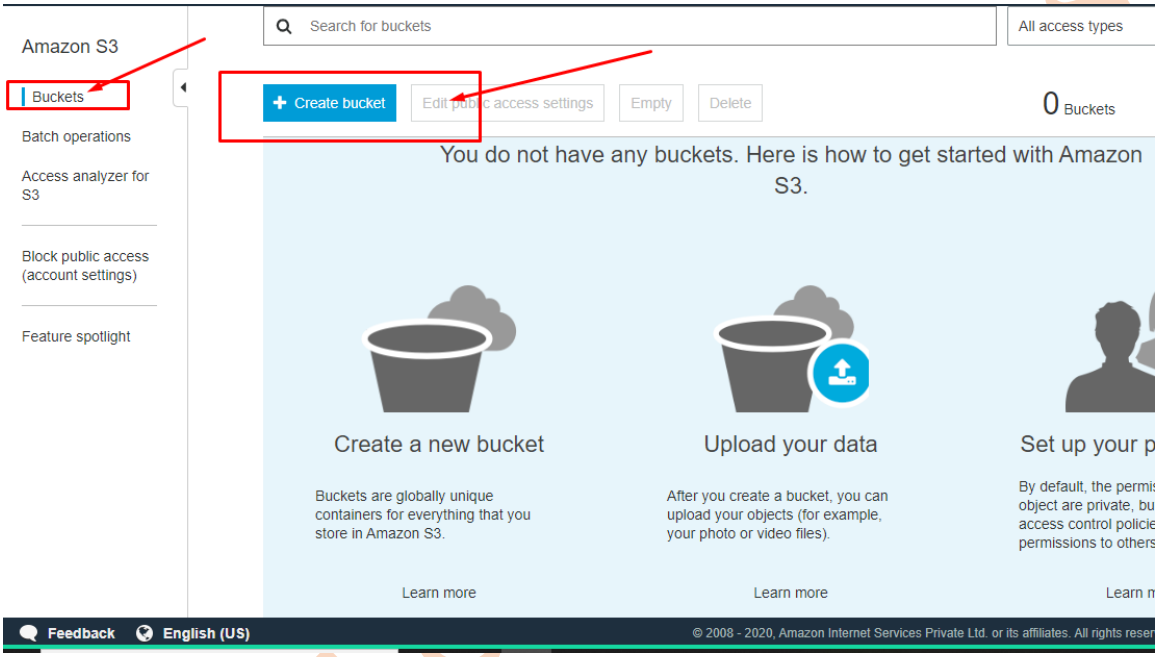


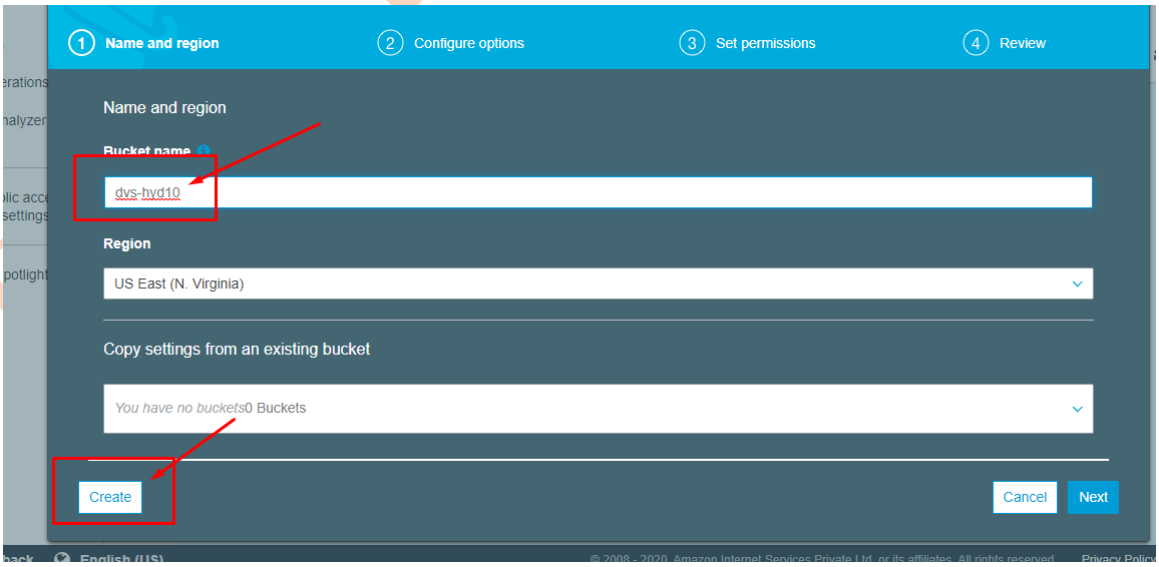
DVS Technologies Aws & Devops

7. Custom Policies

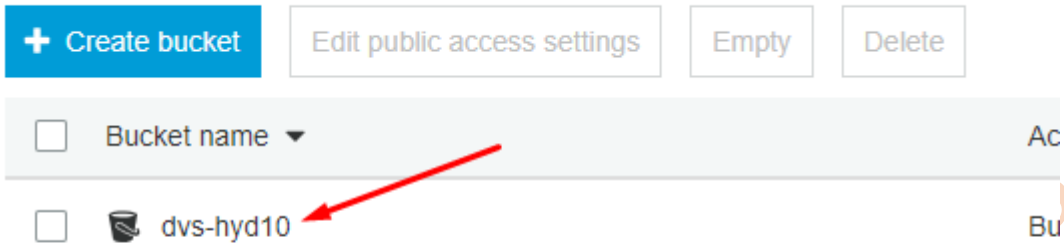
1. Requirement:

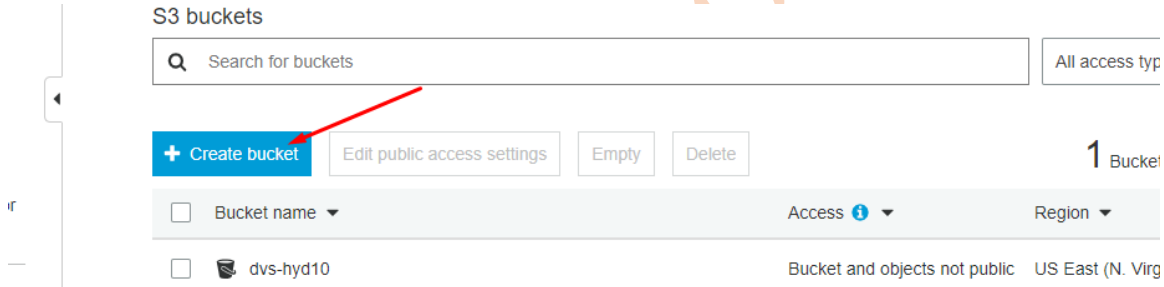
Working with Custom policies perform the steps as below.



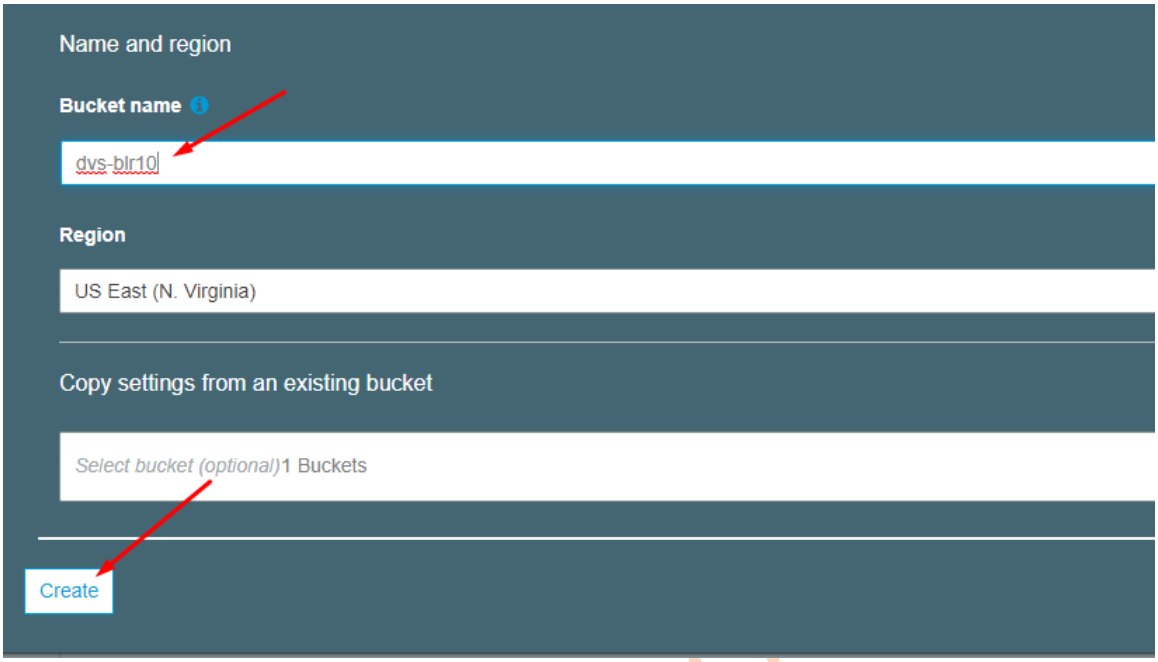


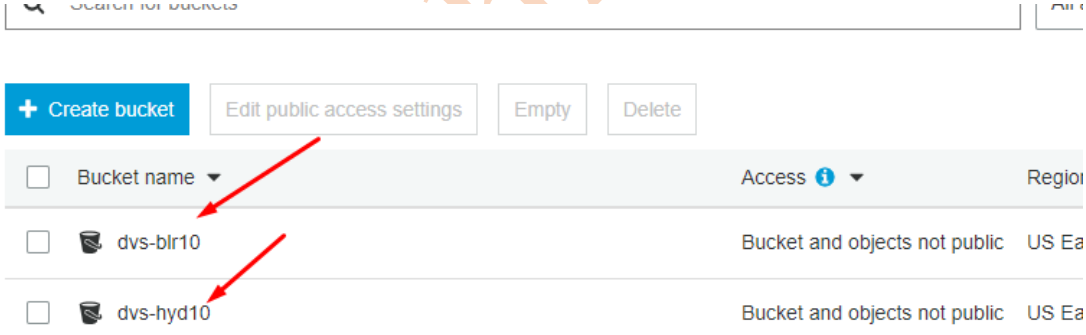
DVS Technologies Aws & Devops



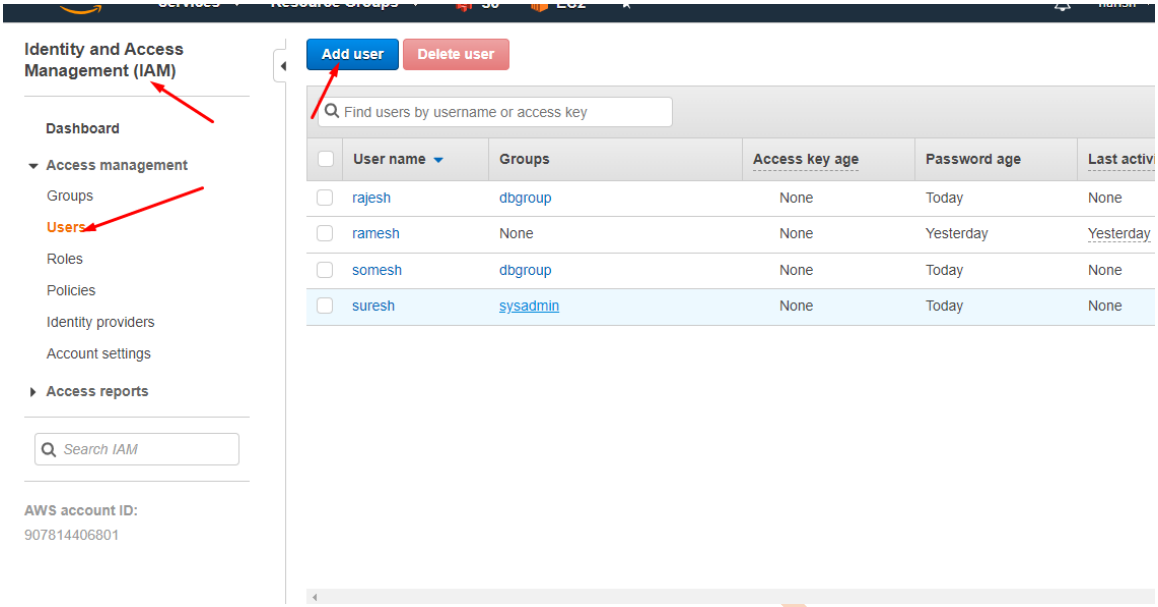


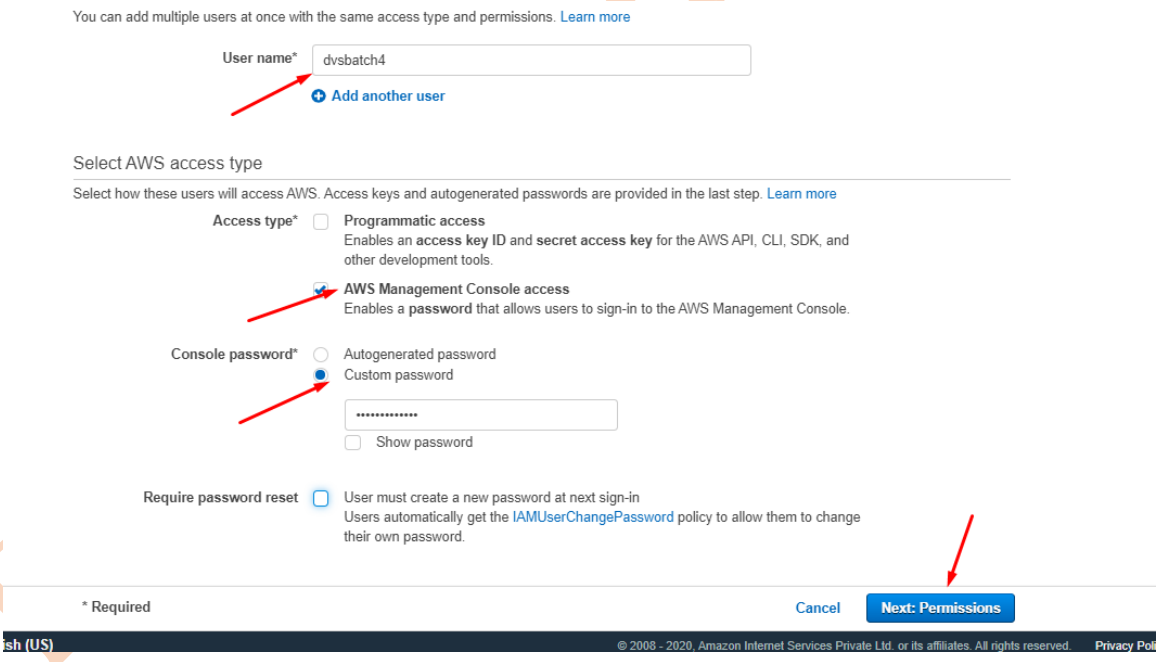
DVS Technologies Aws & Devops

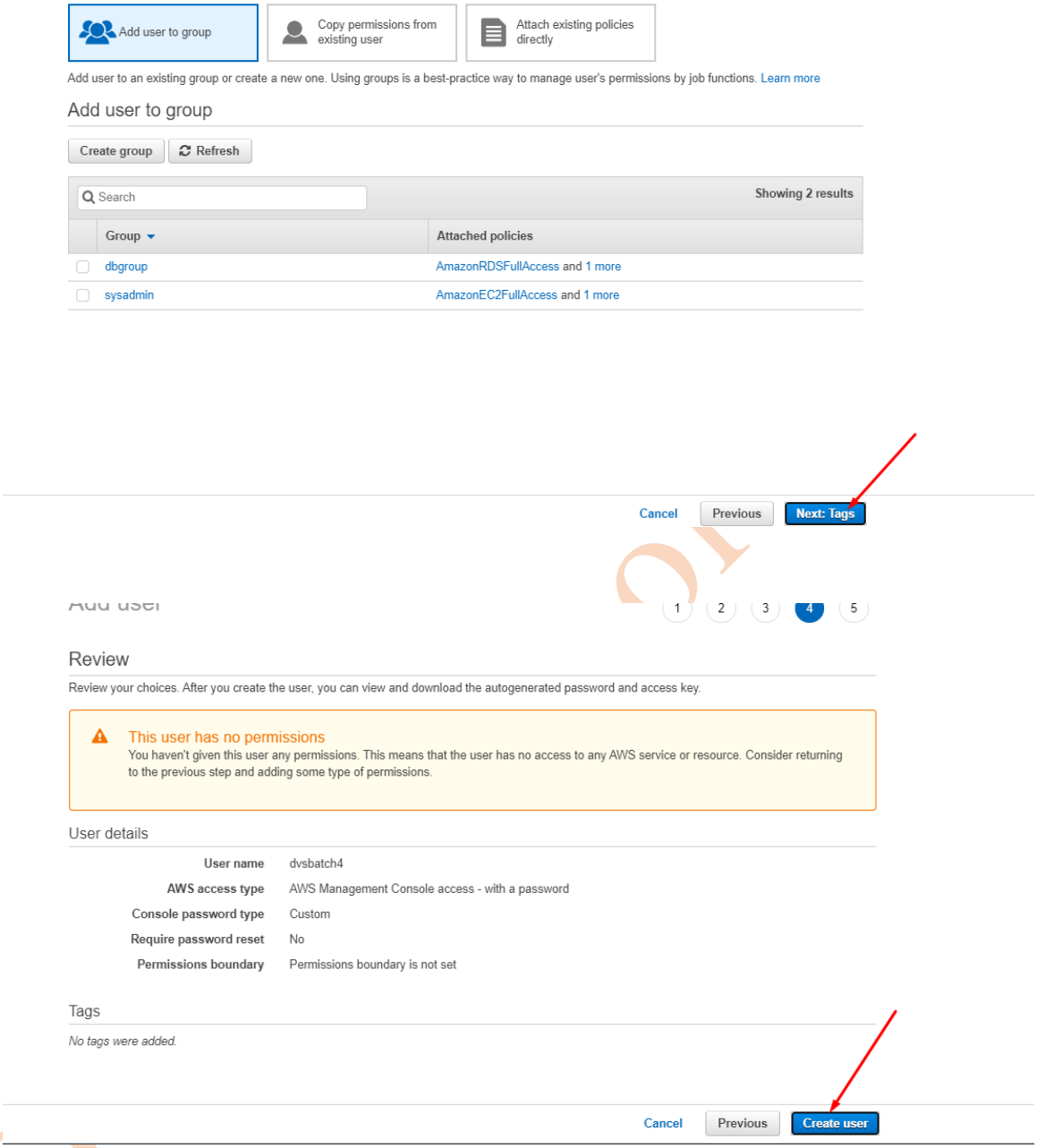


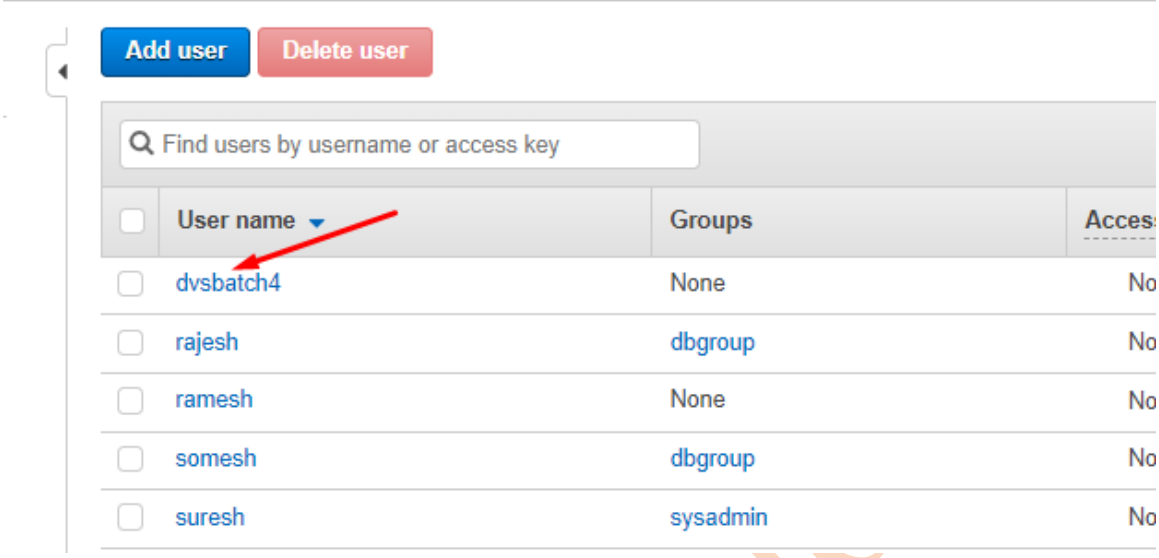


DVS Technologies Aws & Devops

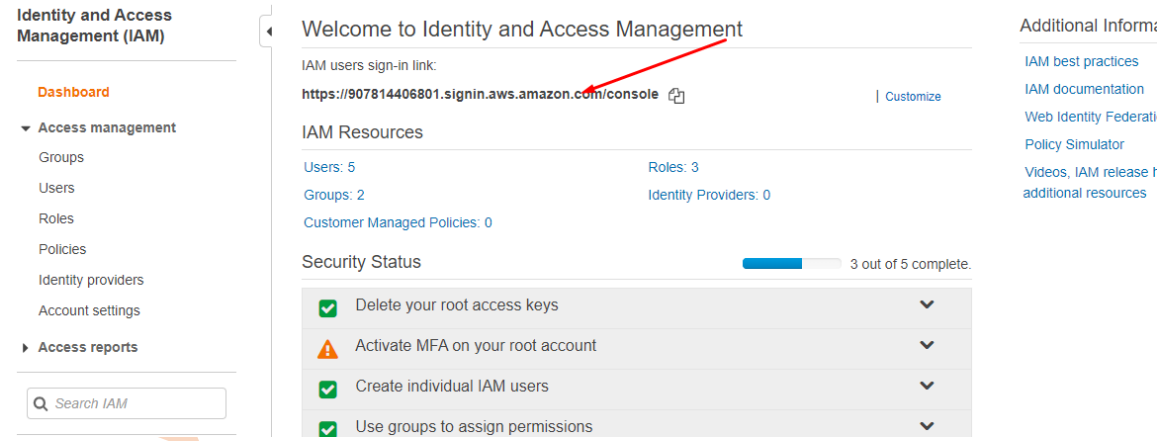




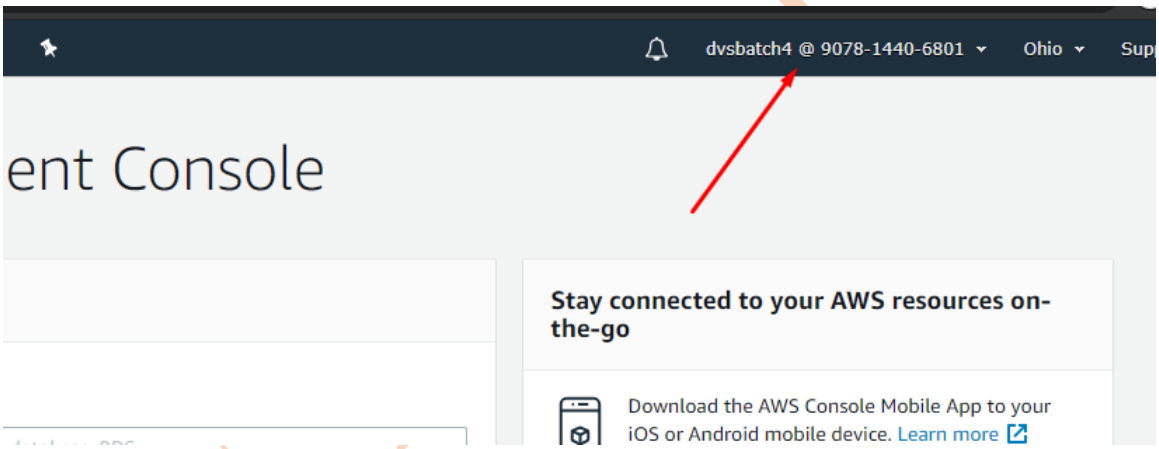

Add user to group
Copy permissions from existing user
Attach existing policies directly
Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. Learn more
Add user to group
Create group
Refresh
Search
Showing 2 results
Group
Attached policies
dbgroup
AmazonRDSFullAccess and 1 more
sysadmin
AmazonEC2FullAccess and 1 more
Cancel
Previous
Next: Tags
1
2
3
4
5
Review
Review your choices. After you create the user, you can view and download the autogenerated password and access key.
This user has no permissions
You haven't given this user any permissions. This means that the user has no access to any AWS service or resource. Consider returning to the previous step and adding some type of permissions.
User details
User name
dvsbatch4
AWS access type
AWS Management Console access - with a password
Console password type
Custom
Require password reset
No
Permissions boundary
Permissions boundary is not set
Tags
No tags were added.
Cancel
Previous
Create user



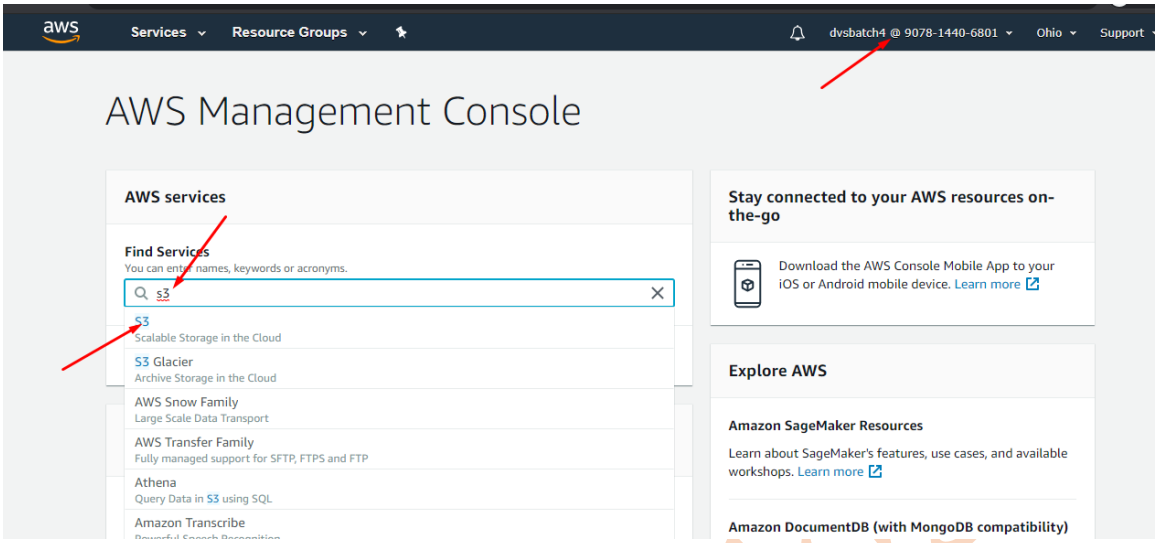
Verifying dvsbatch4 access for s3 buckets:

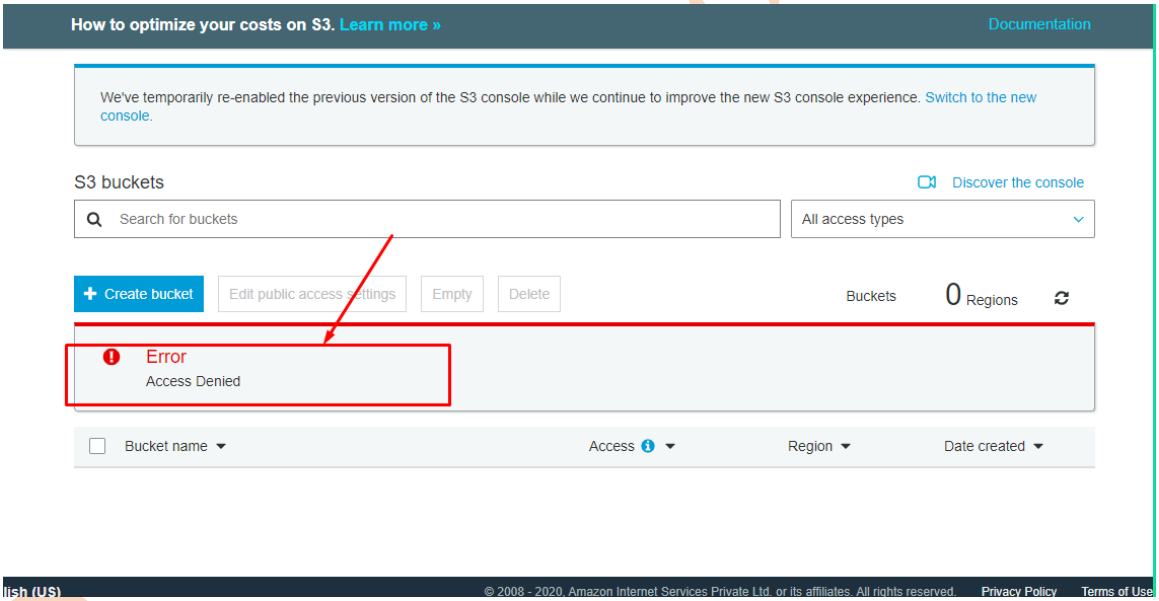


DVS Technologies Aws & Devops



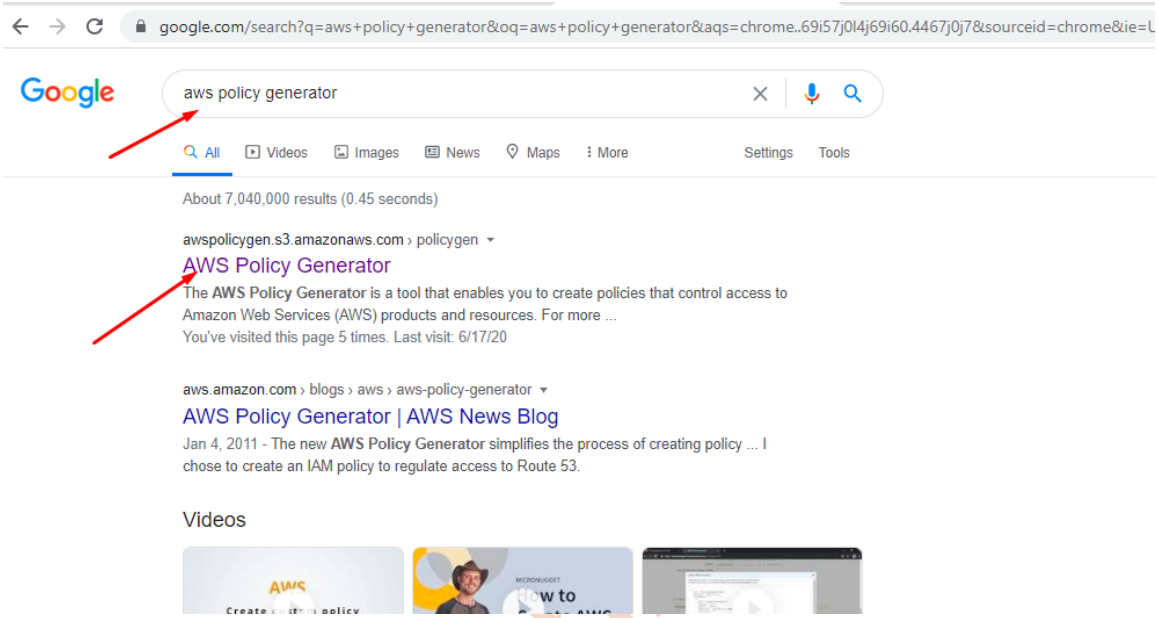
DVS Technologies Aws & Devops

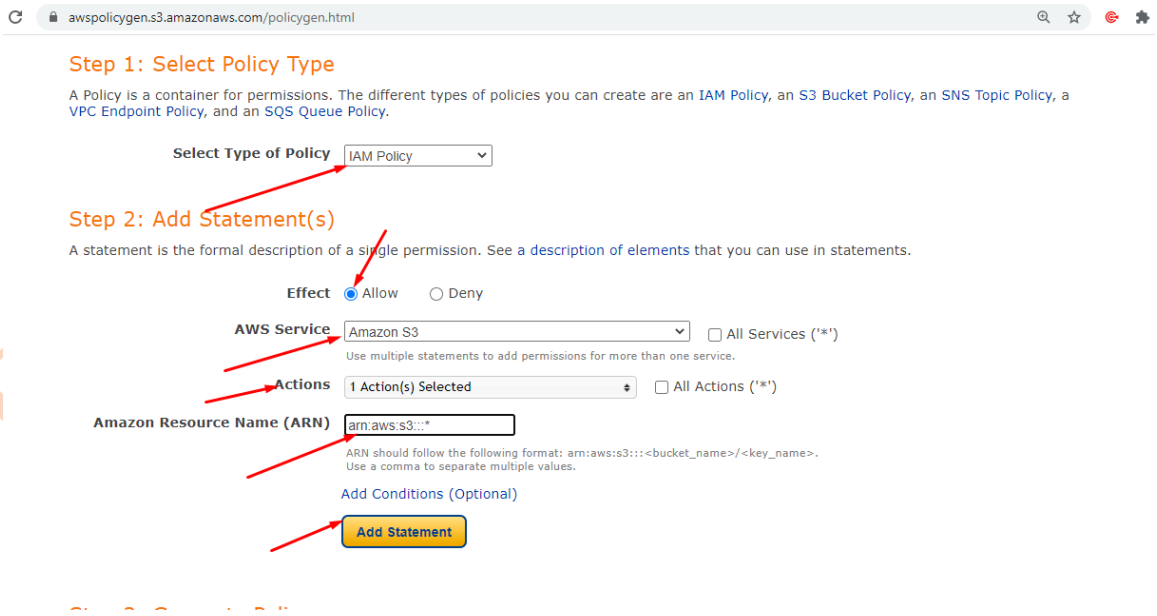




DVS Technologies Aws & Devops

Now lets work on custom policies:





You added the following statements. Click the button below to Generate a policy.

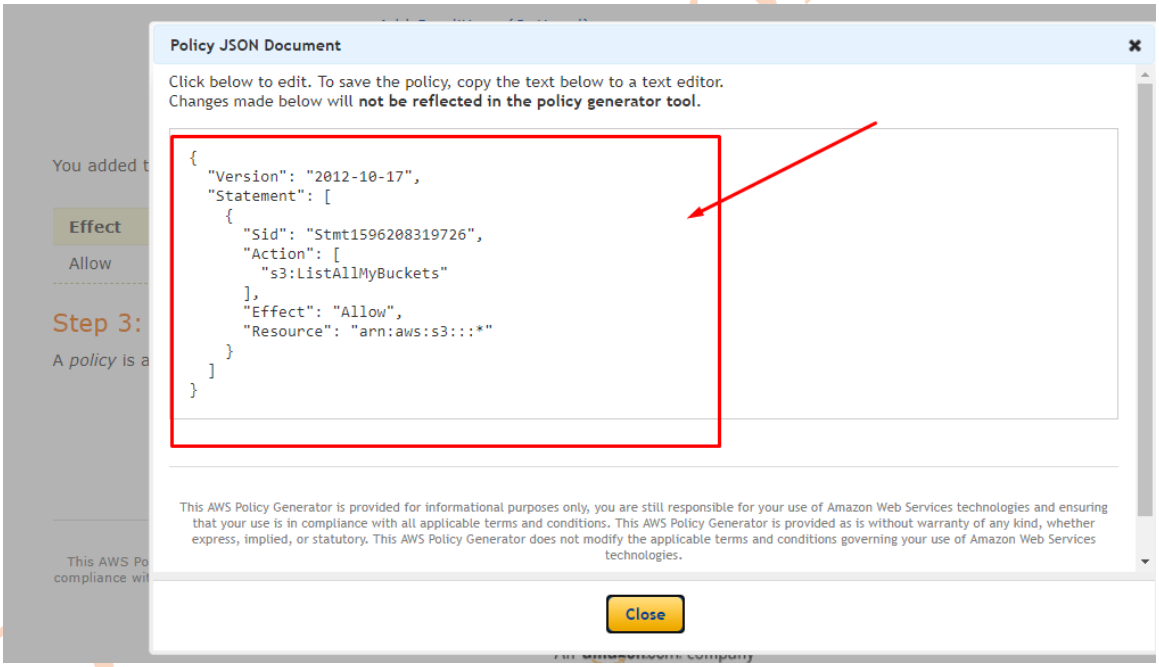
Effect	Action	Resource	Conditions
Allow	• s3:ListAllMyBuckets	arn:aws:s3:::*	*None*

Step 3: Generate Policy

A *policy* is a document (written in the Access Policy Language) that acts as a container for one or more statements.

Generate Policy Start Over

This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided **as is** without warranty of any kind, whether express, implied, or statutory. This AWS Policy



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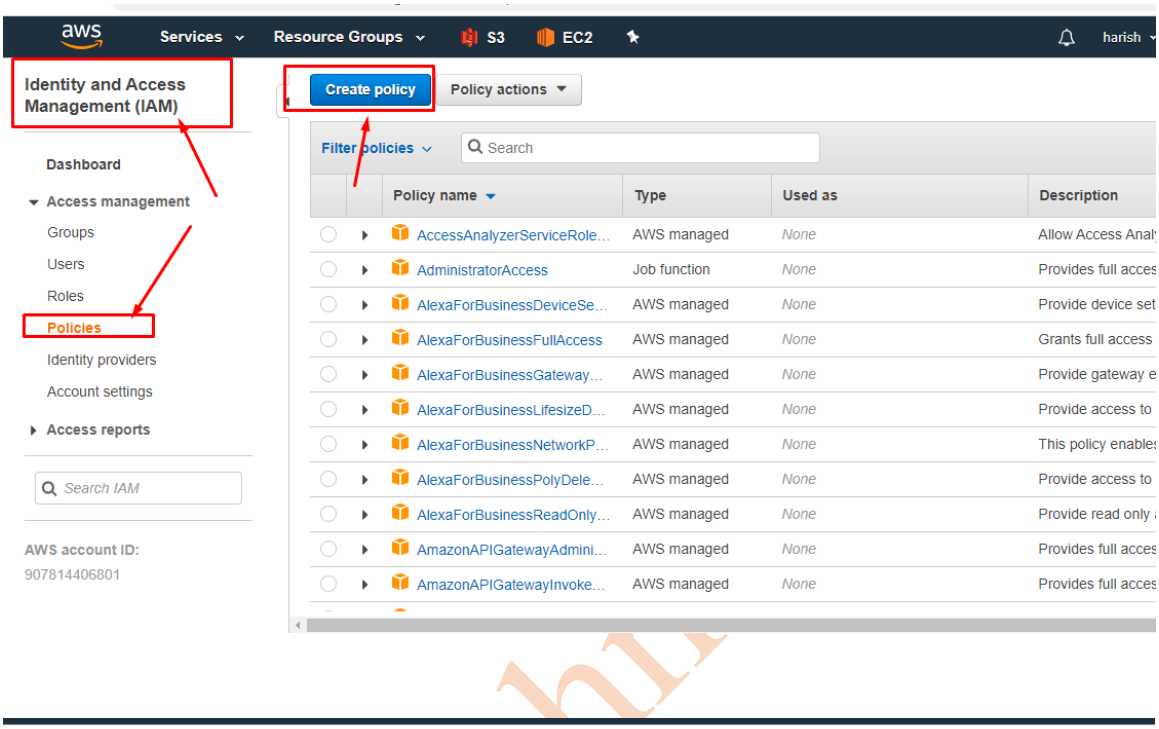
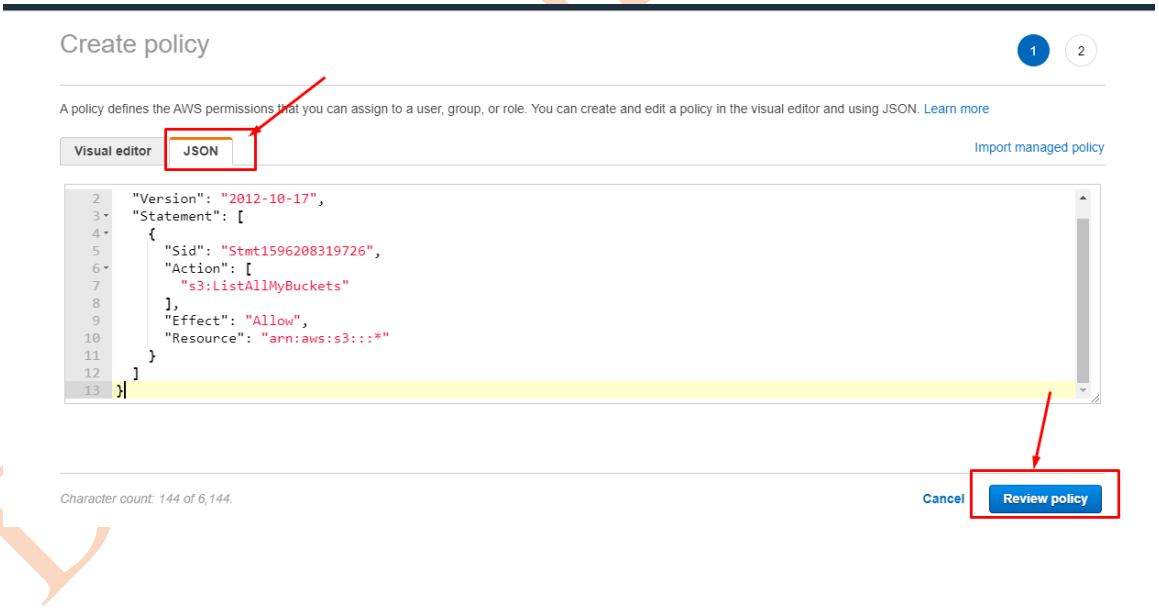
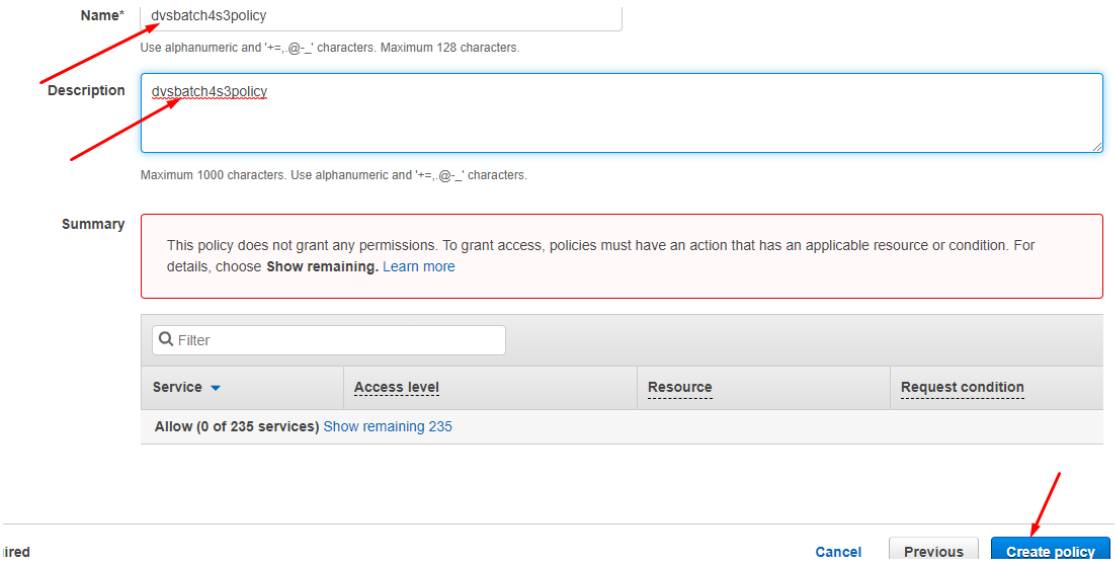
Creating Custom Policy:

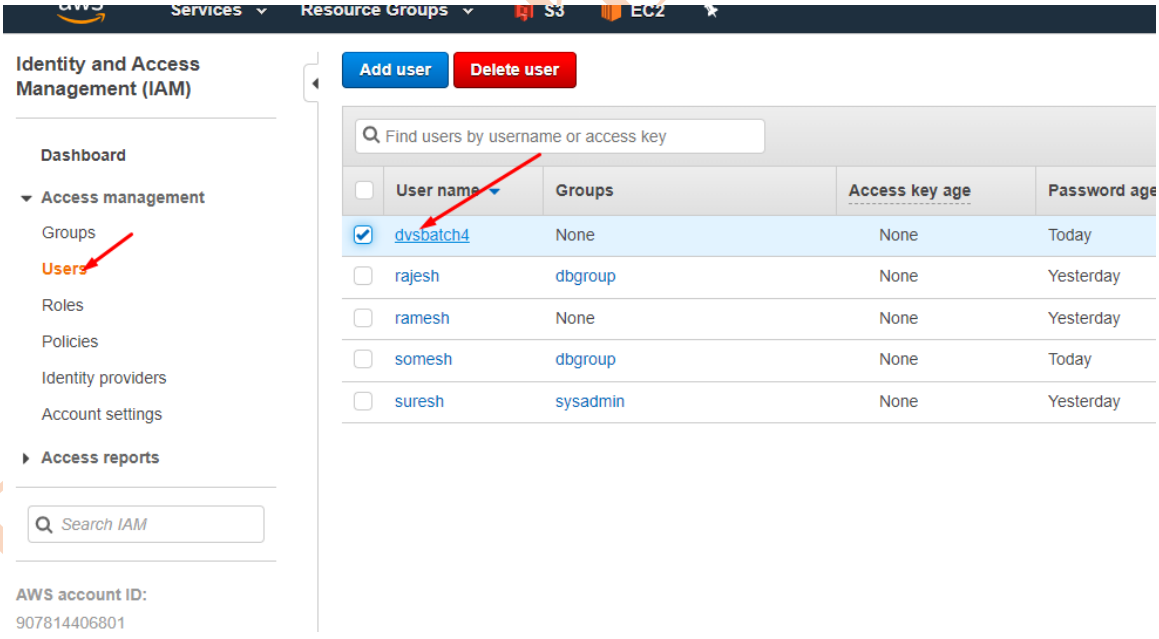




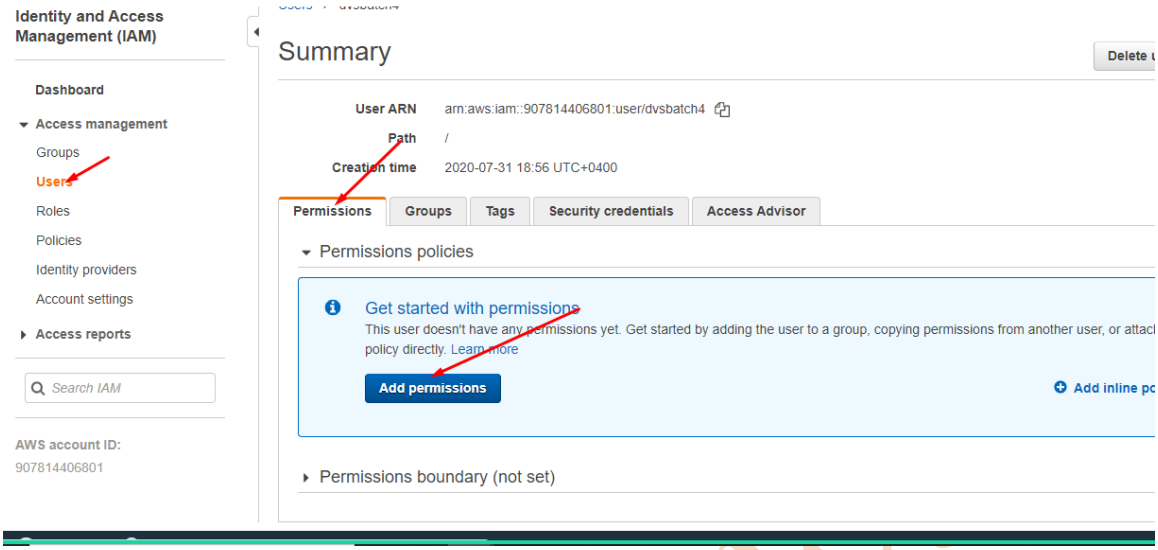
DVS Technologies Aws & Devops

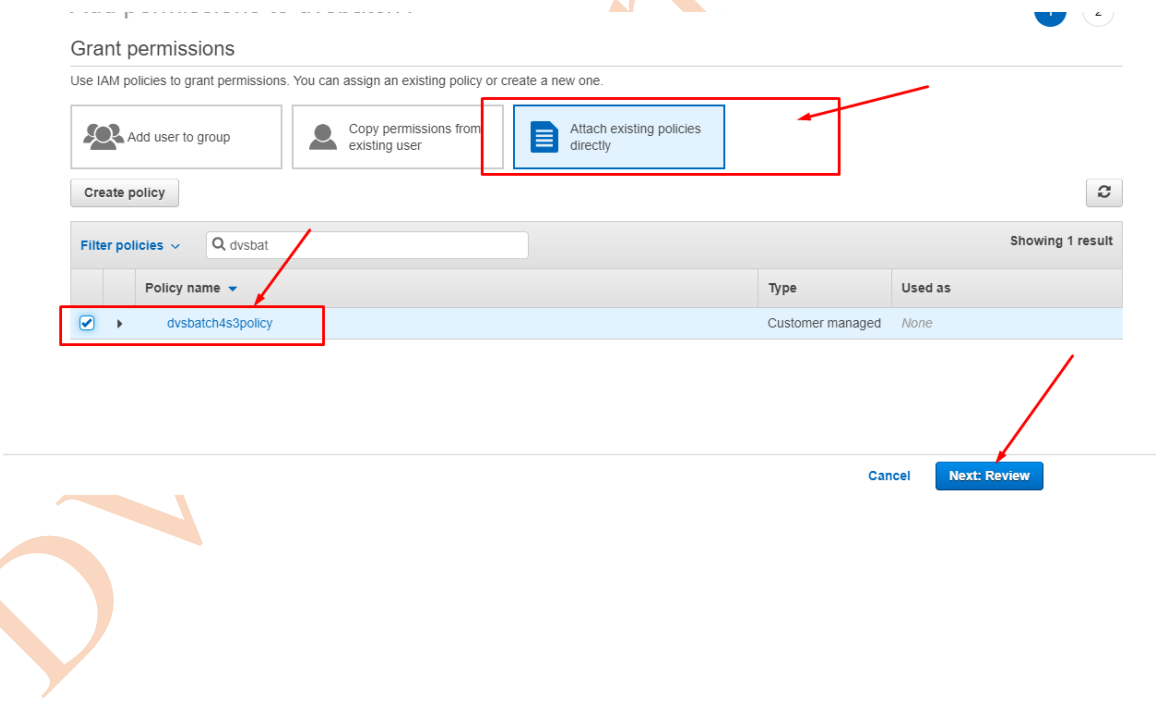


Attaching Policy to user:

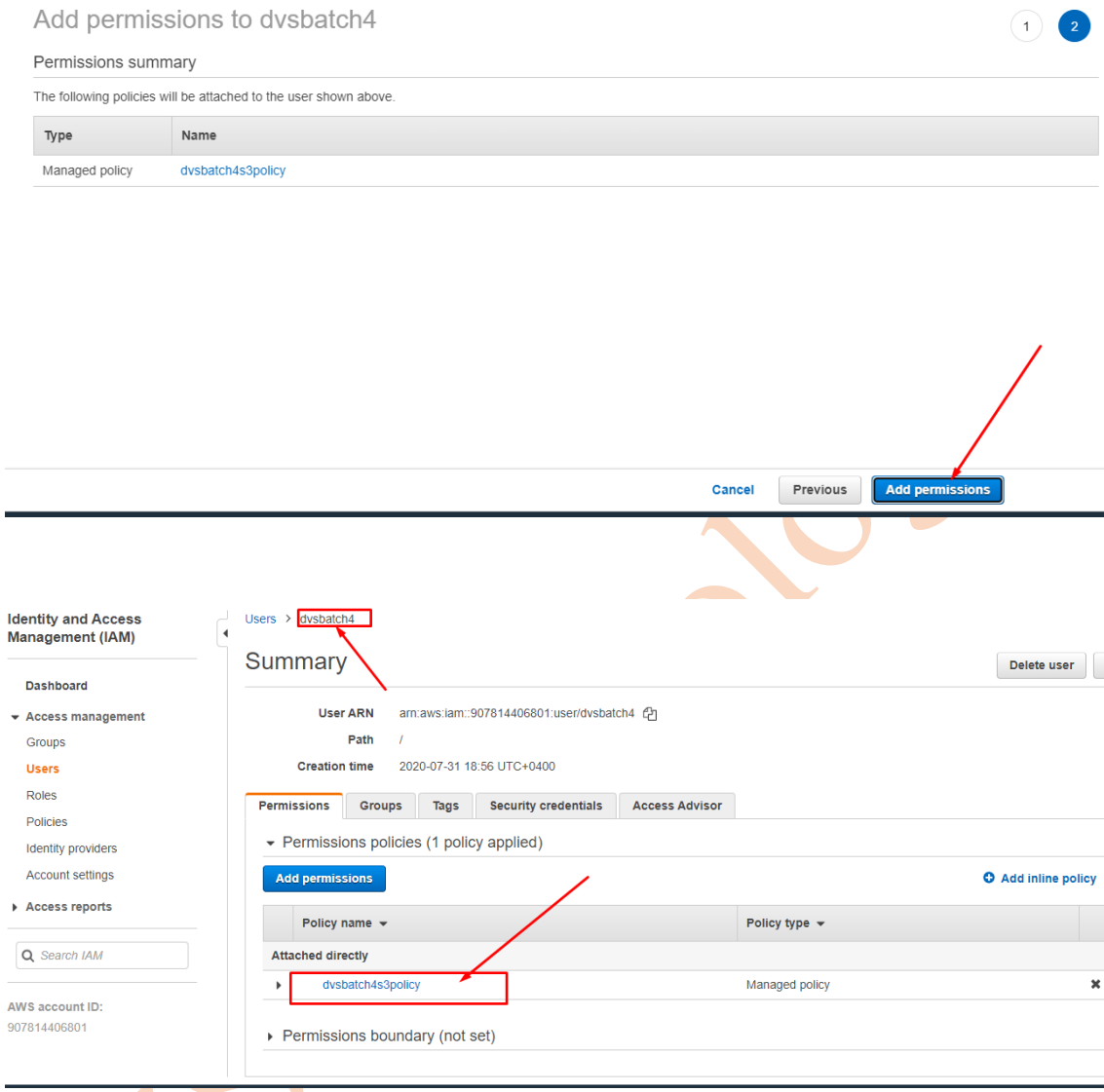


DVS Technologies Aws & Devops

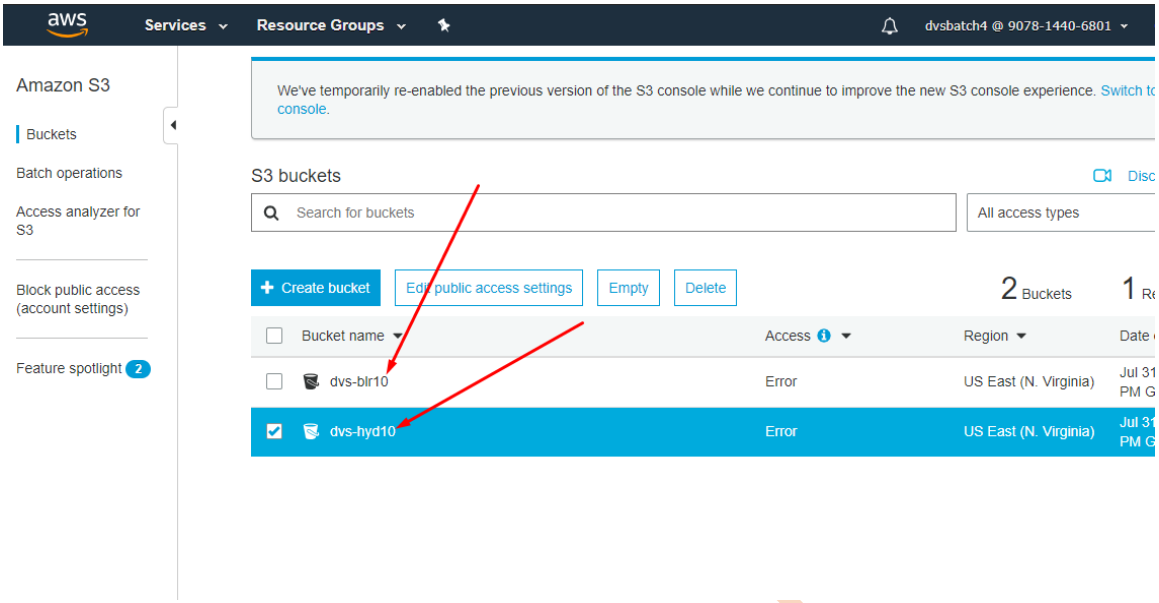




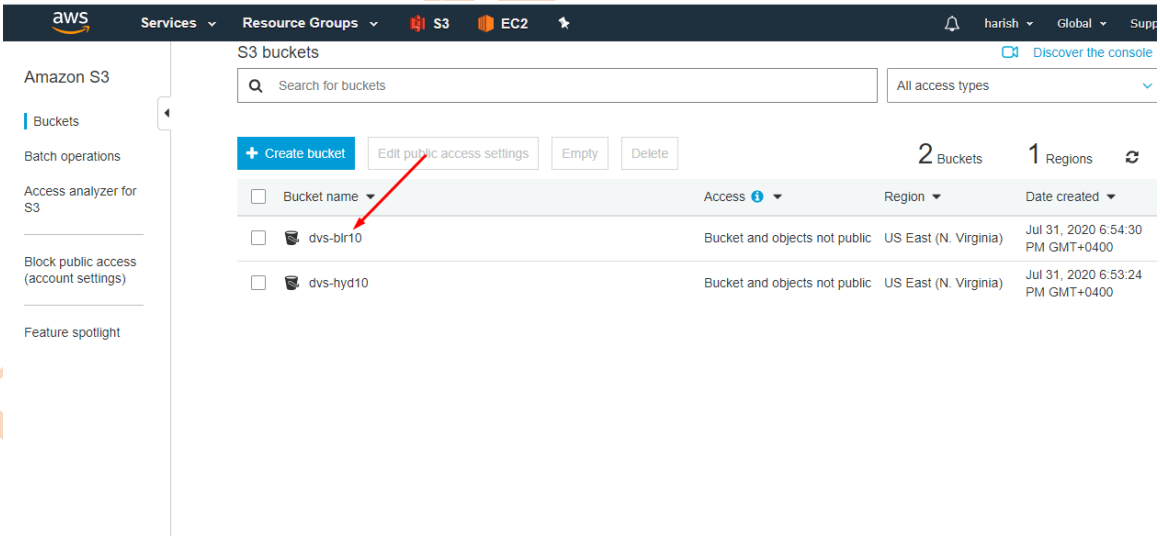
DVS Technologies Aws & Devops

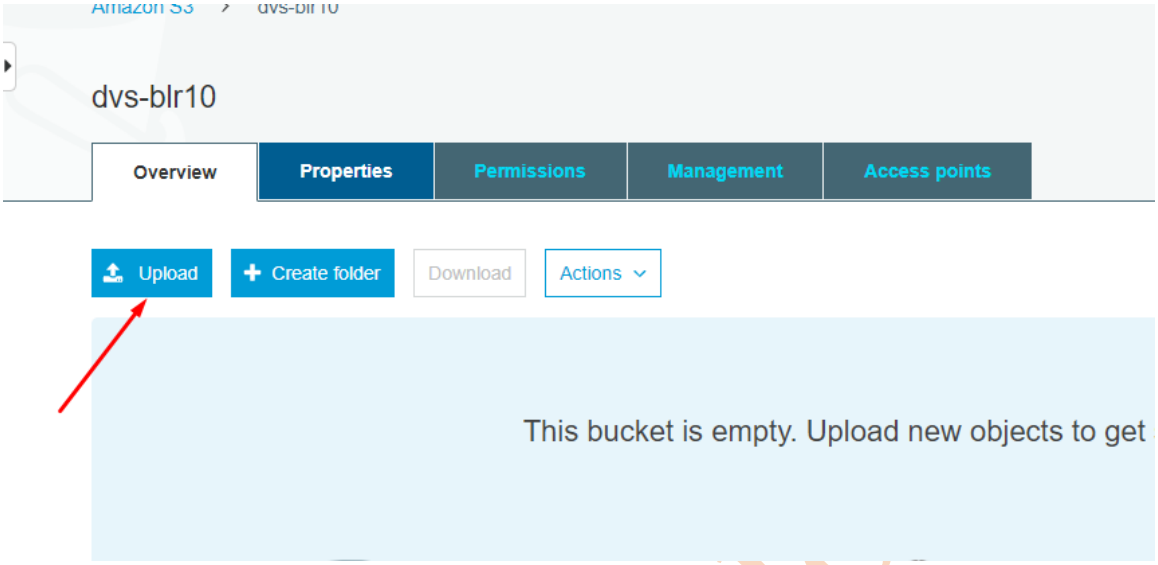


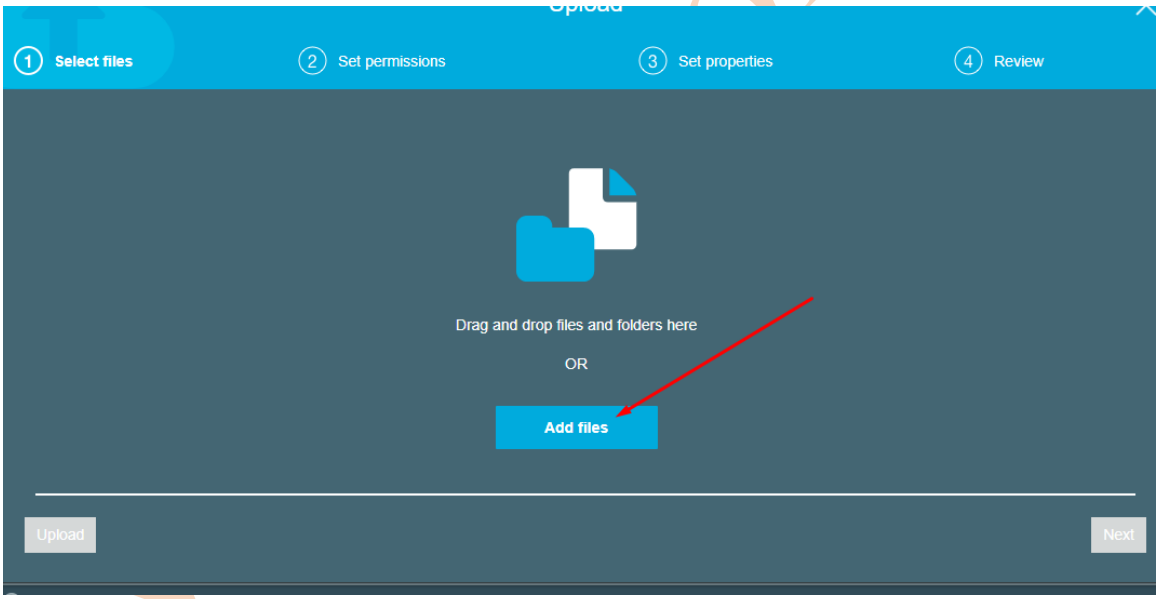
DVS Technologies Aws & Devops



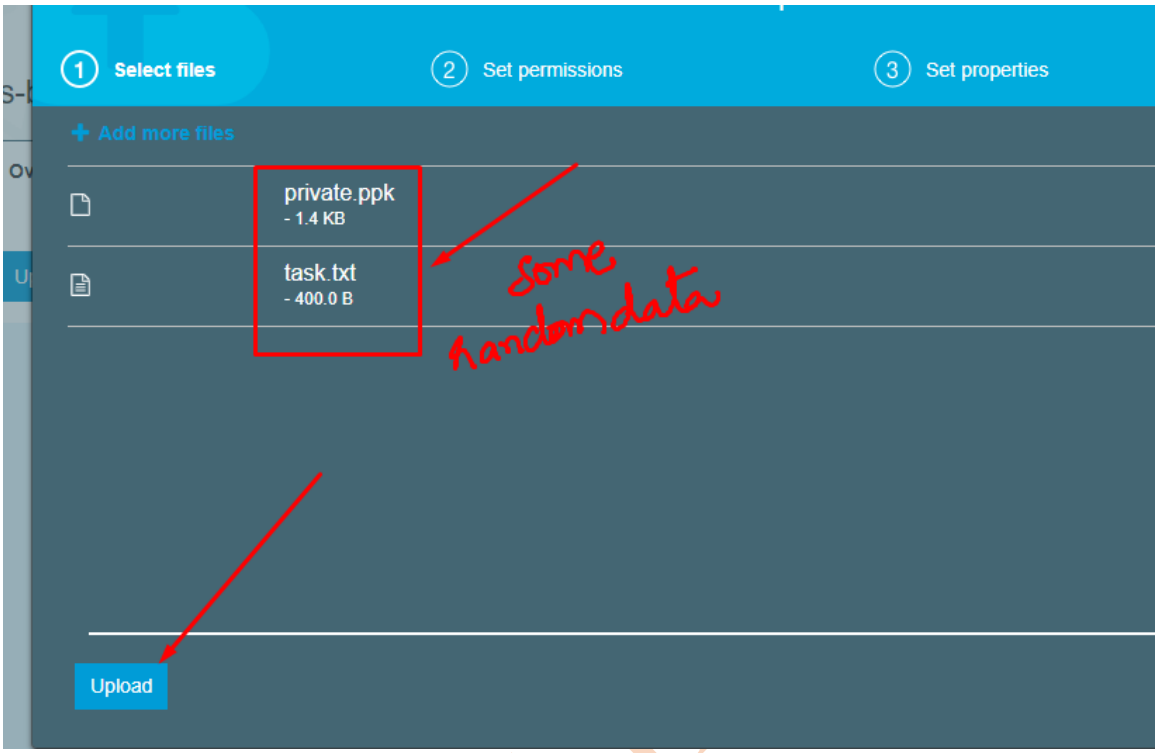
Upload some data to buckets:

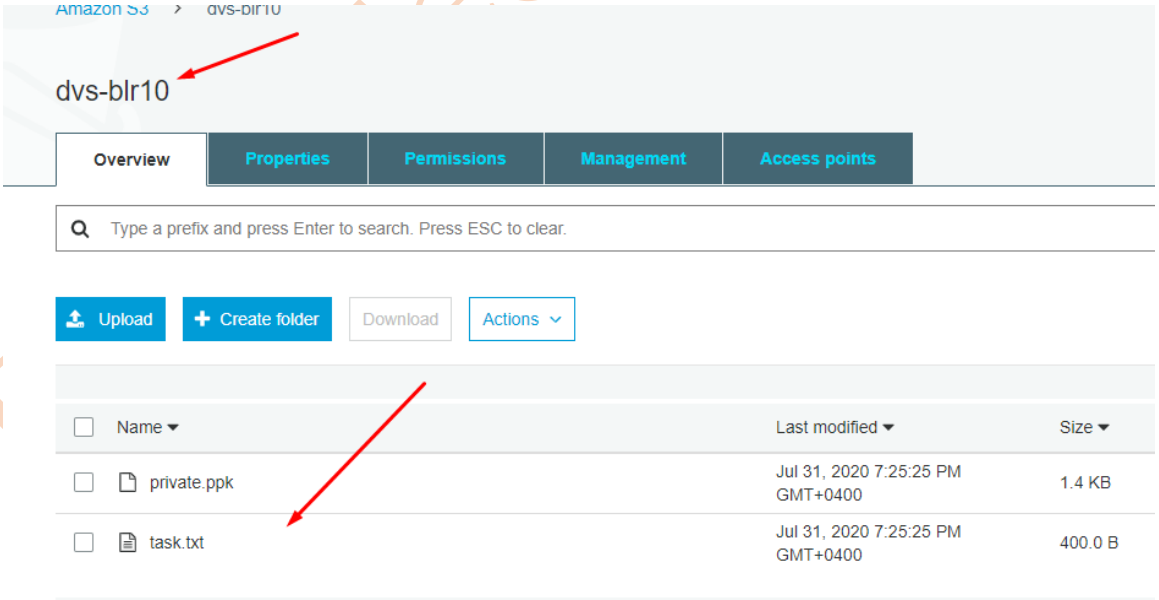



dvs-blr10
Overview
Properties
Permissions
Management
Access points
Upload
Create folder
Download
Actions
This bucket is empty. Upload new objects to get


1 Select files
2 Set permissions
3 Set properties
4 Review
Drag and drop files and folders here
OR
Add files
Upload
Next

DVS Technologies Aws & Devops





Note: Do the same for other bucket

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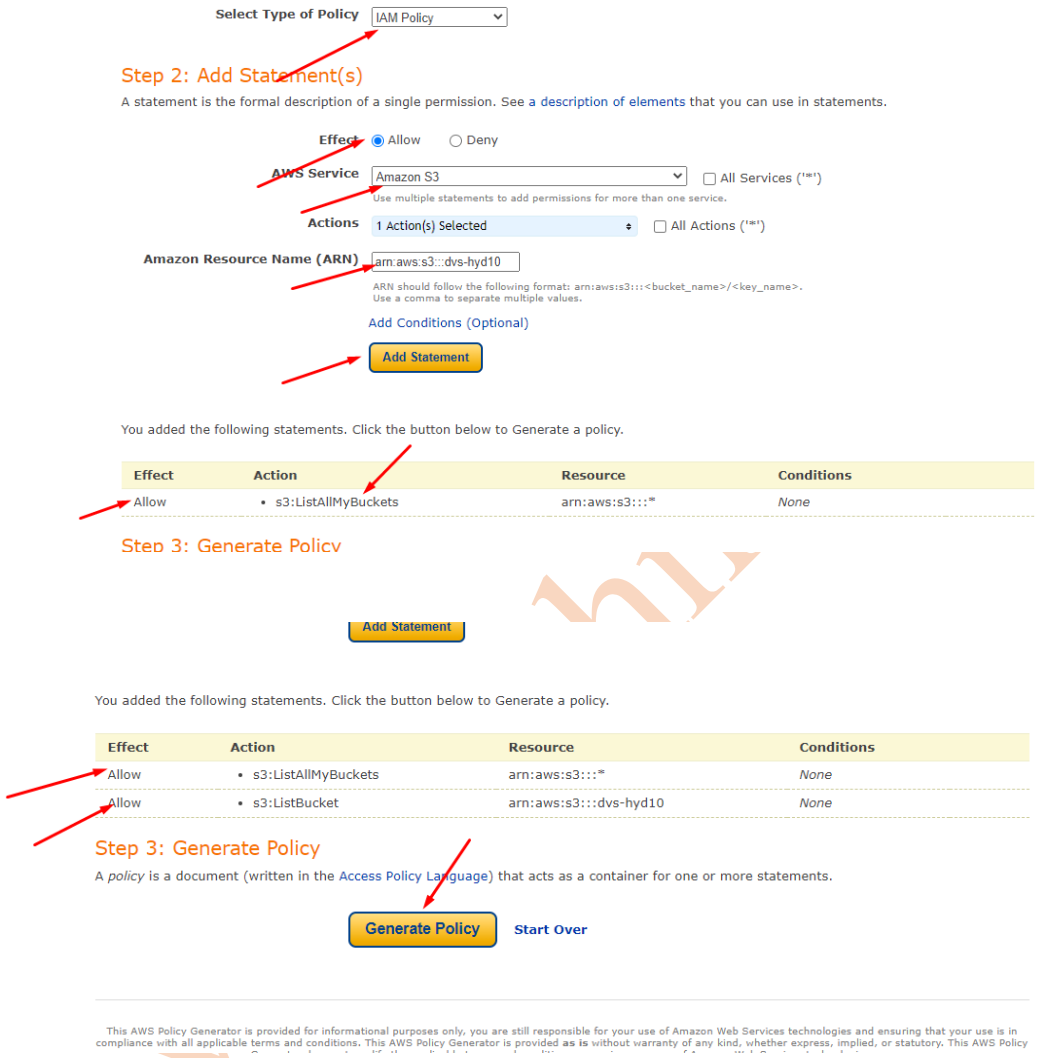
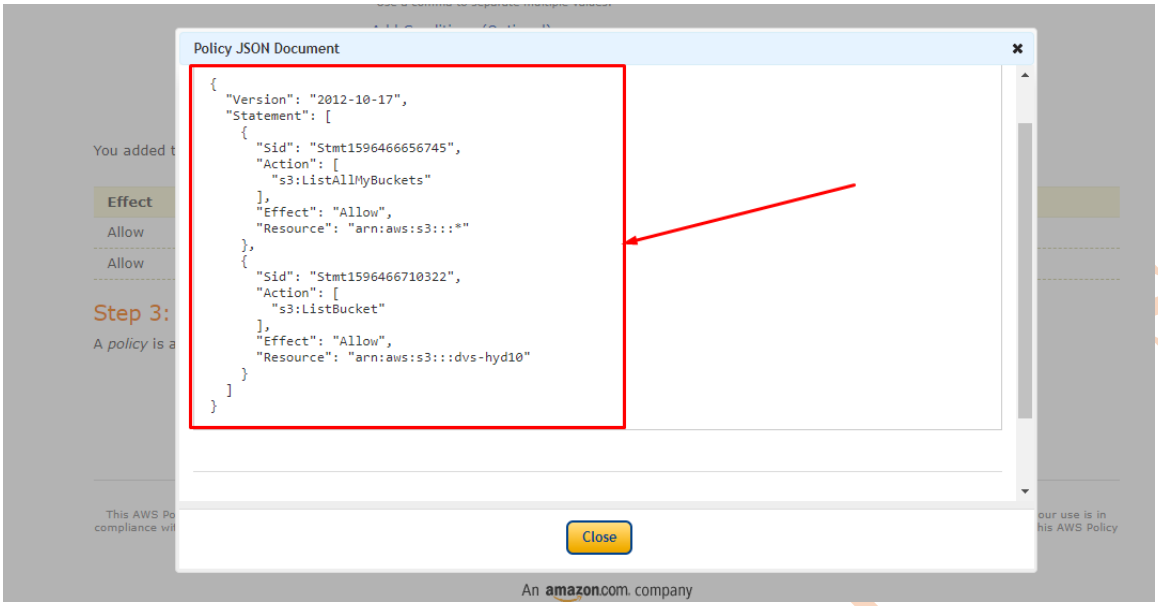
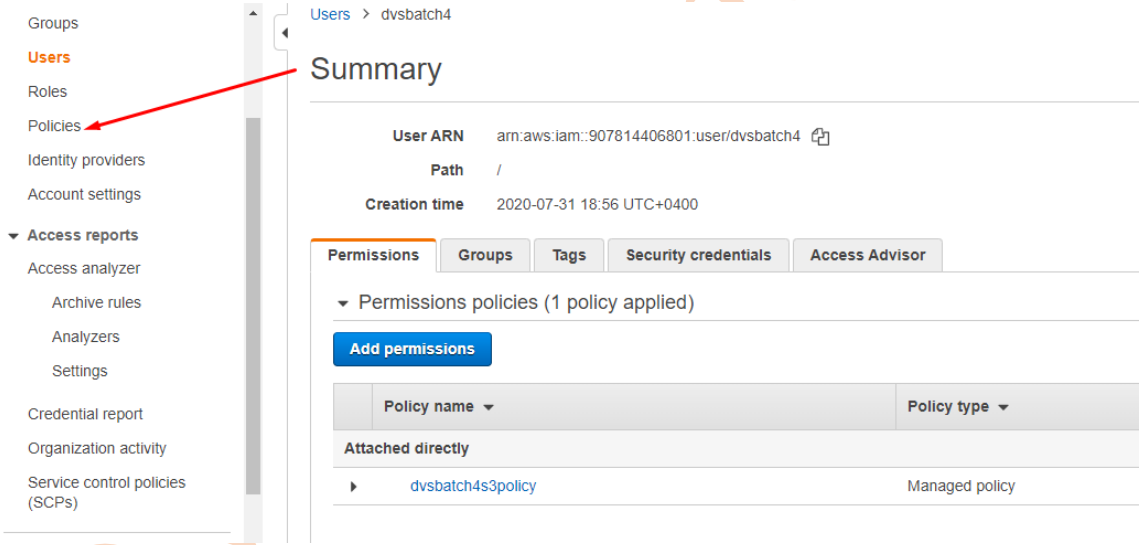
8. Extending Customized Policies

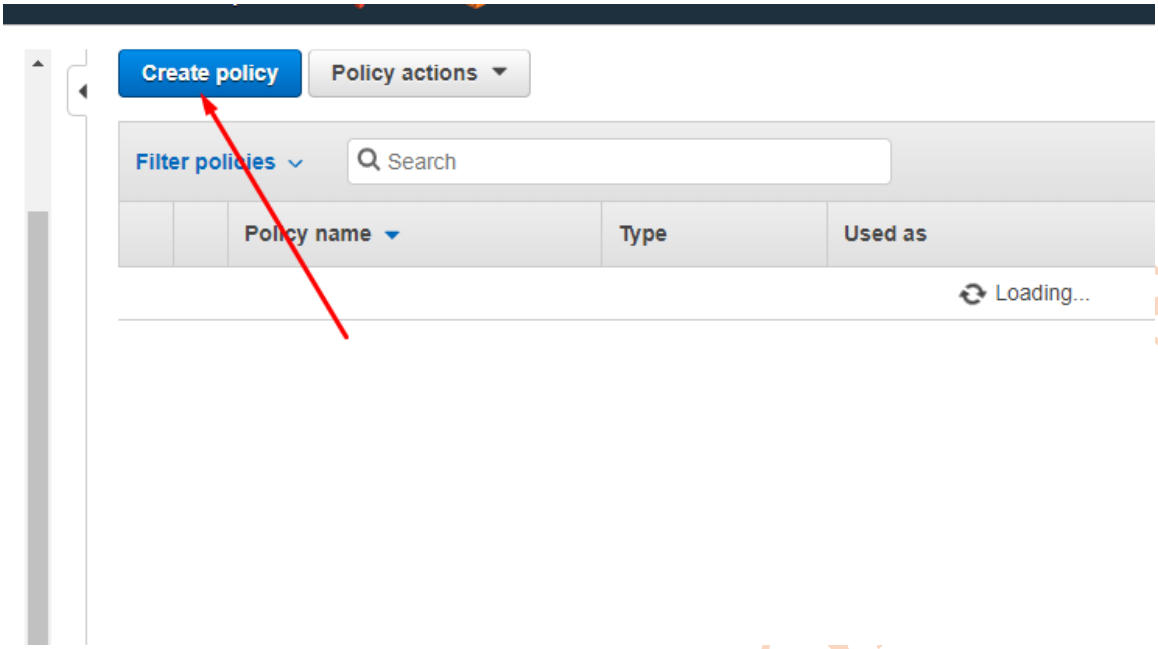
Granting the permission for a user to a particular buckets data

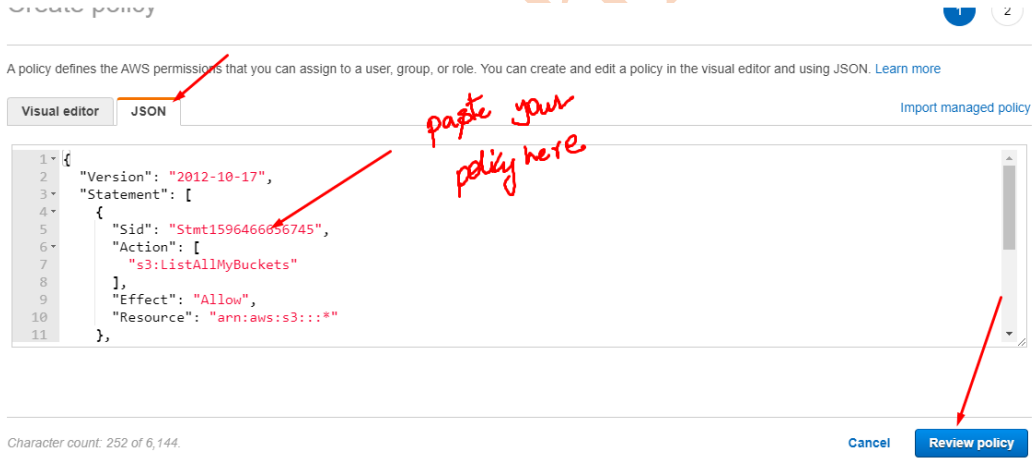


DVS Technologies Aws & Devops

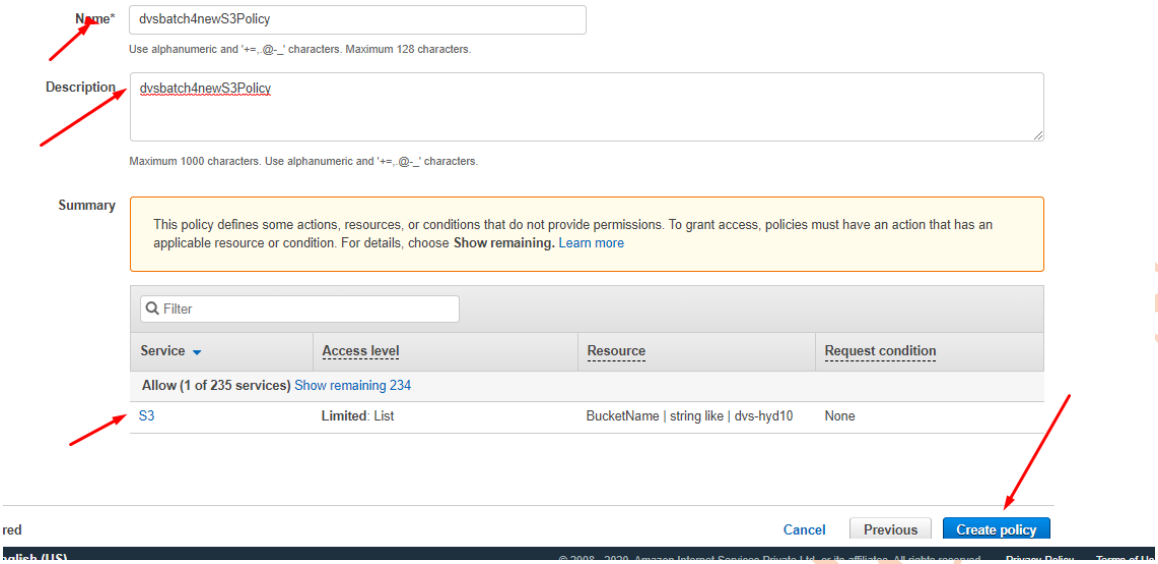


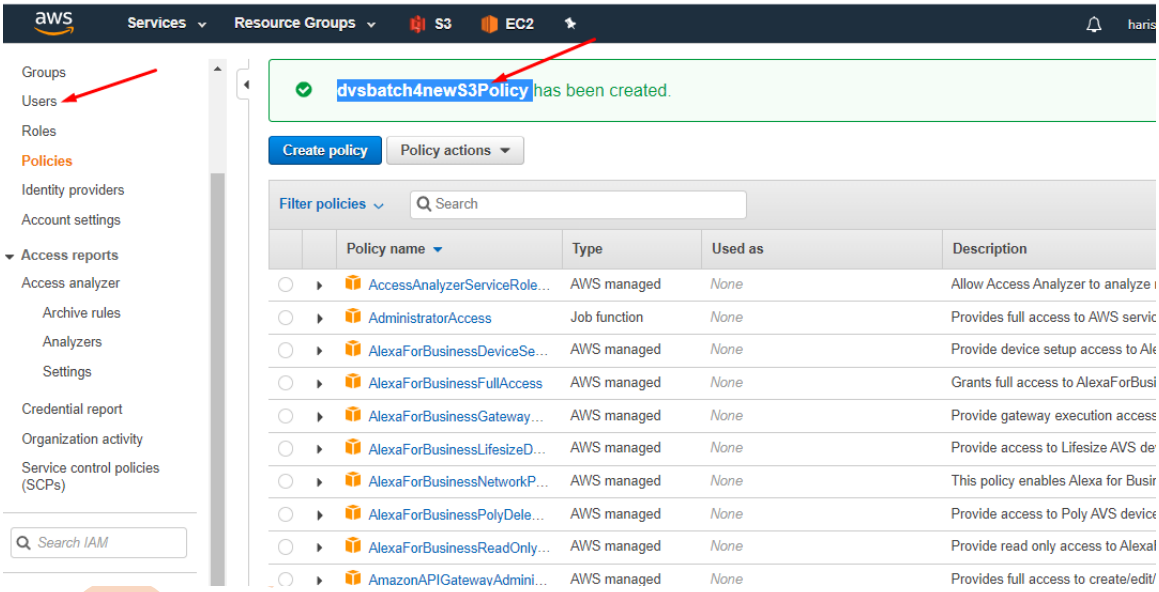


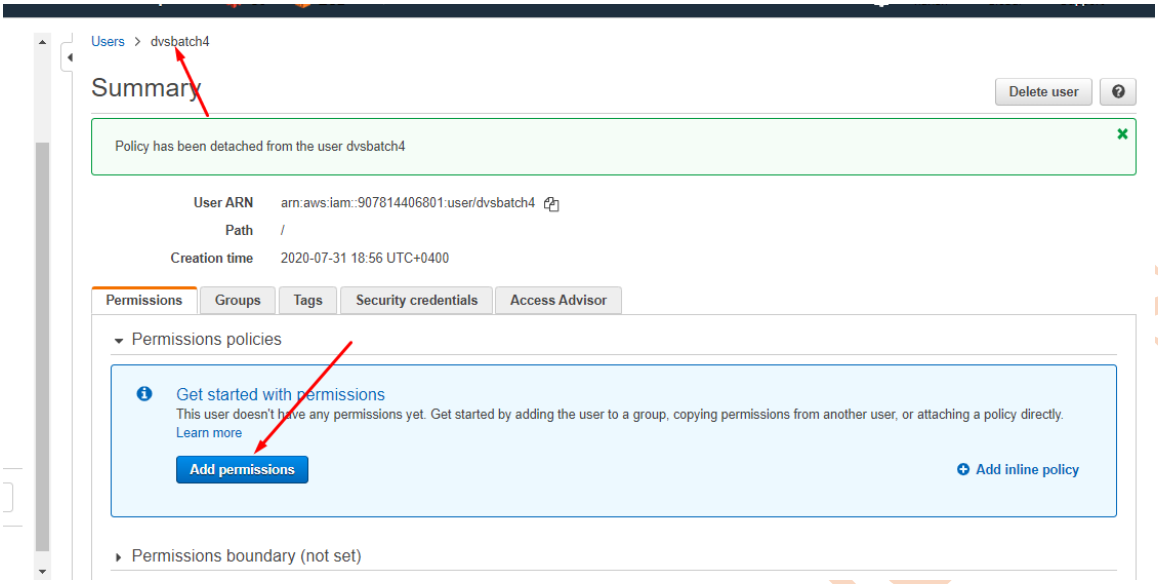

Create policy
Policy actions
Filter policies
Search
Policy name
Type
Used as
Loading...

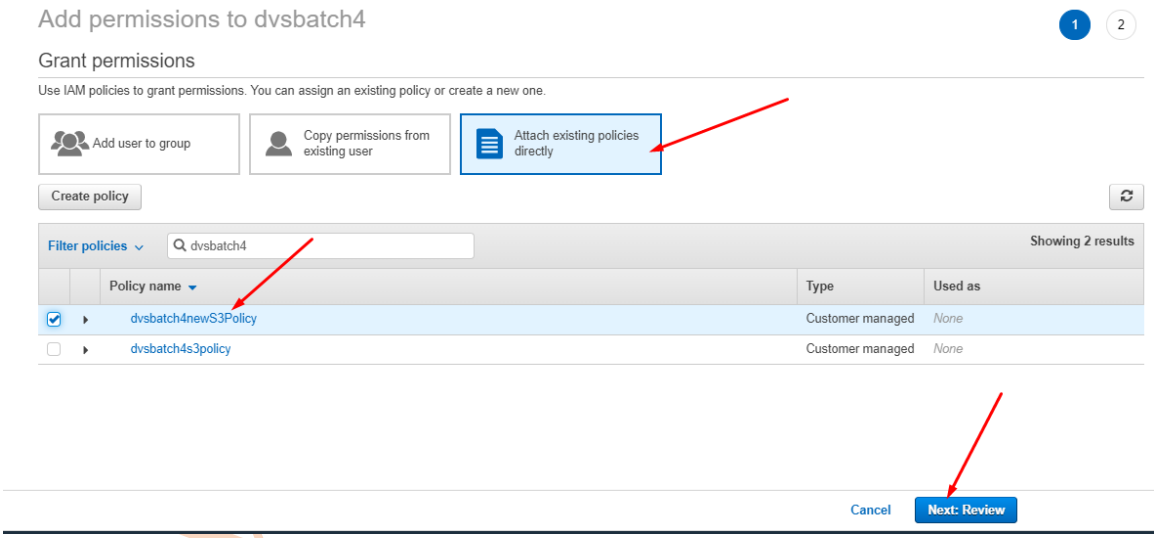

A policy defines the AWS permissions that you can assign to a user, group, or role. You can create and edit a policy in the visual editor and using JSON. Learn more
Visual editor
JSON
Import managed policy
paste your policy here
{
"Version": "2012-10-17",
"Statement": [
{
"Sid": "Stmt1596466656745",
"Action": [
"s3:ListAllMyBuckets"
],
"Effect": "Allow",
"Resource": "arn:aws:s3:::*"
},
Character count: 252 of 6,144.
Cancel
Review policy

DVS Technologies Aws & Devops

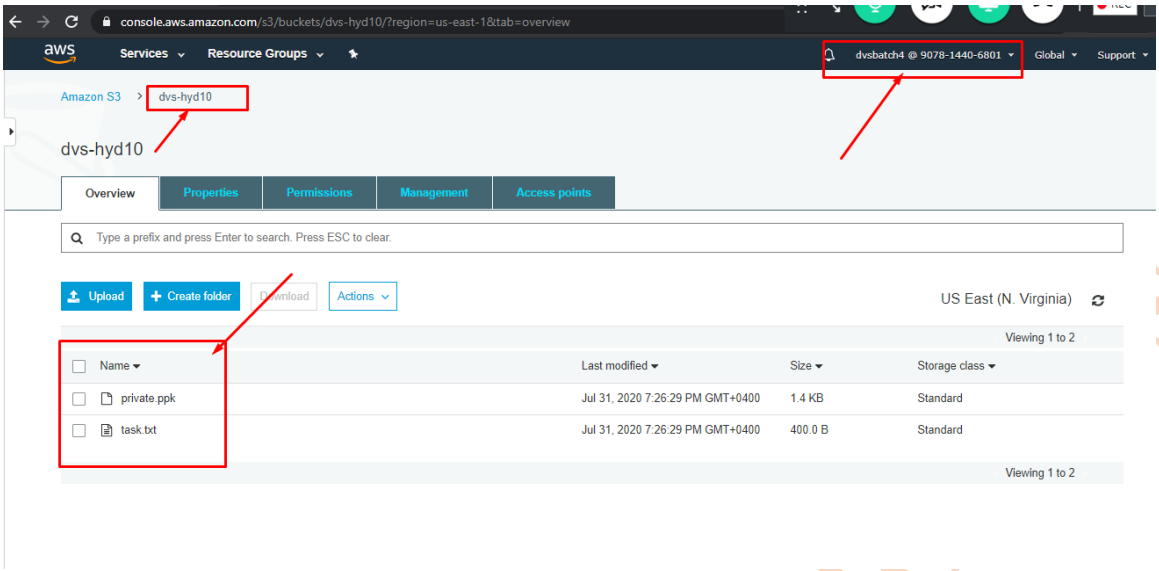


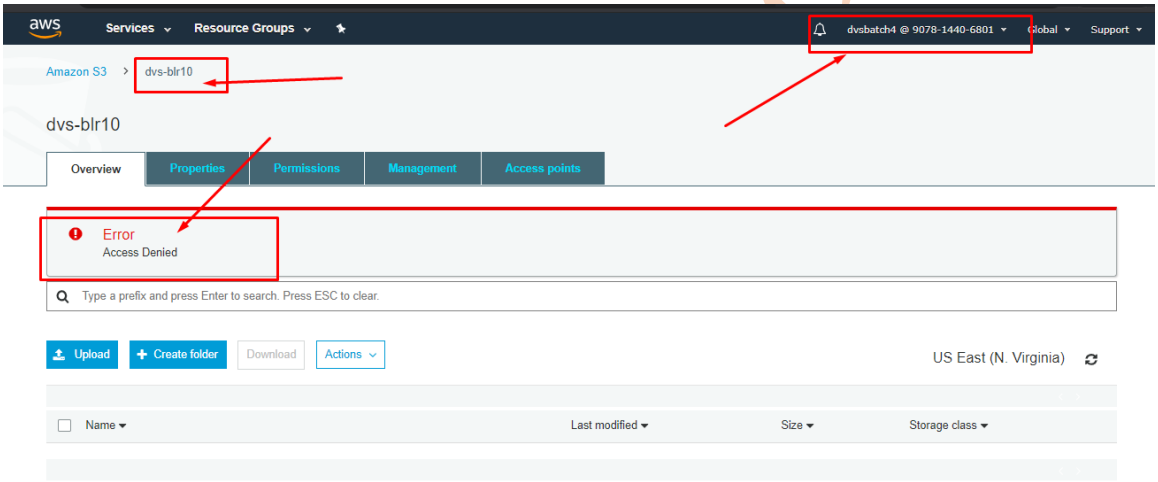






CLICK ON ADD PERMISSIONS





Let's try to delete the object via dvsbatch4 user and let's see if he can delete the data or not

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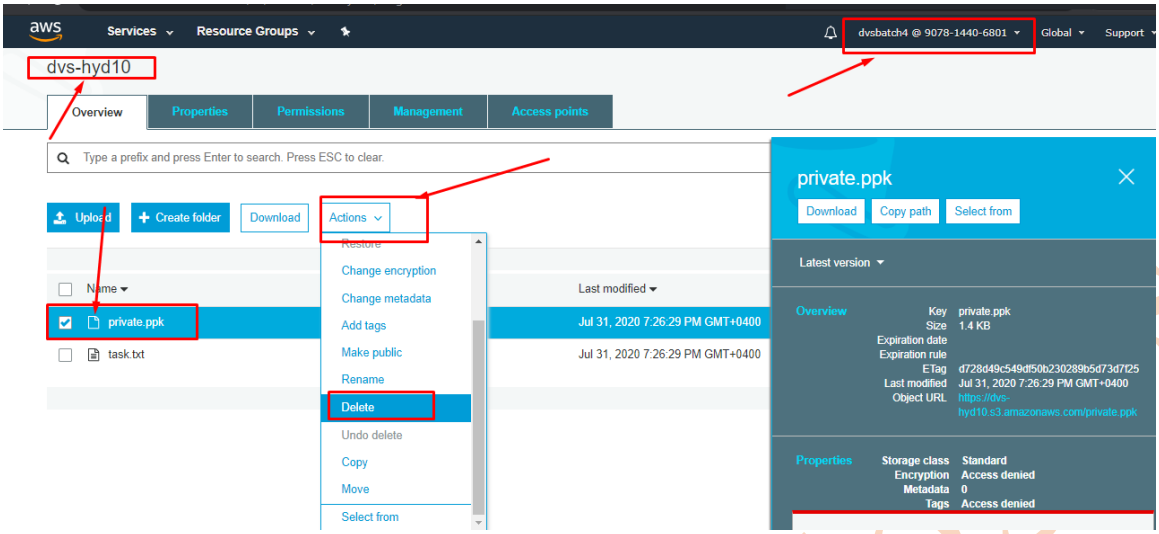
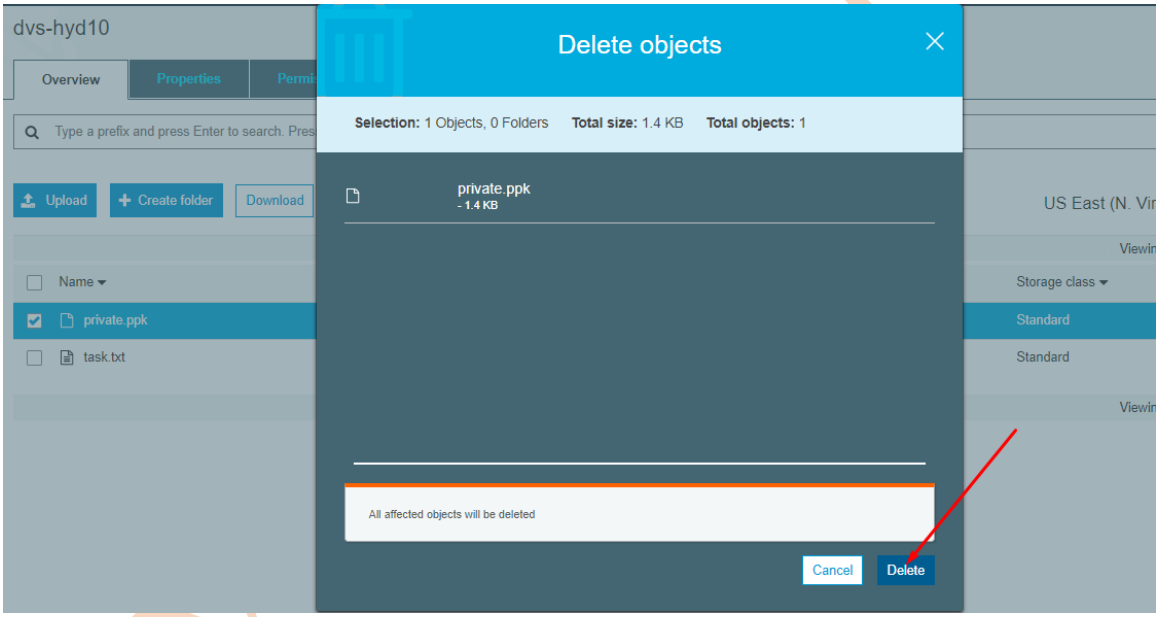
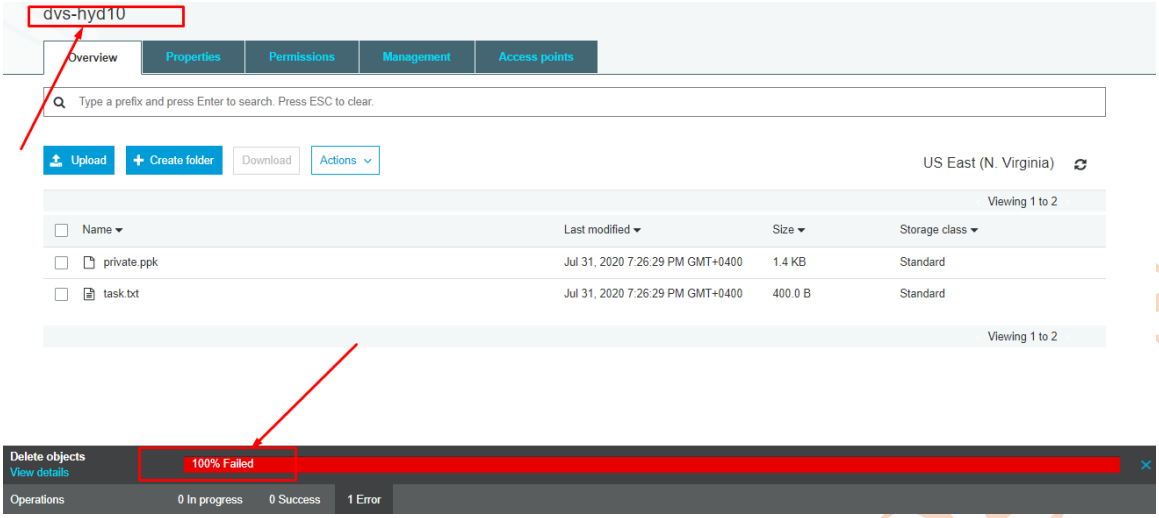
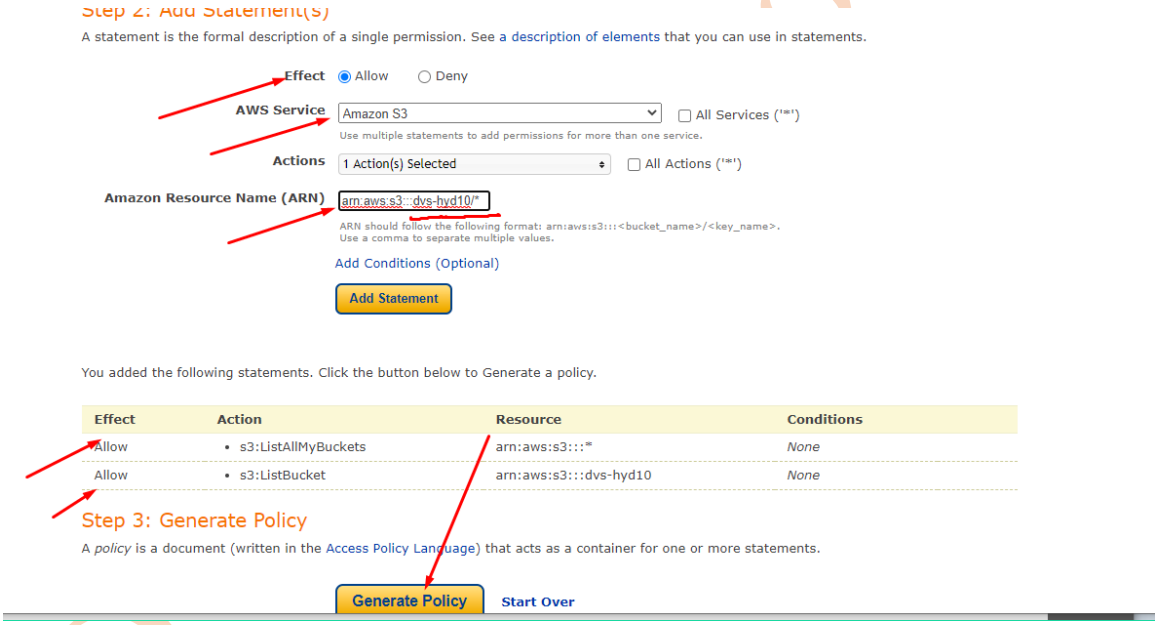




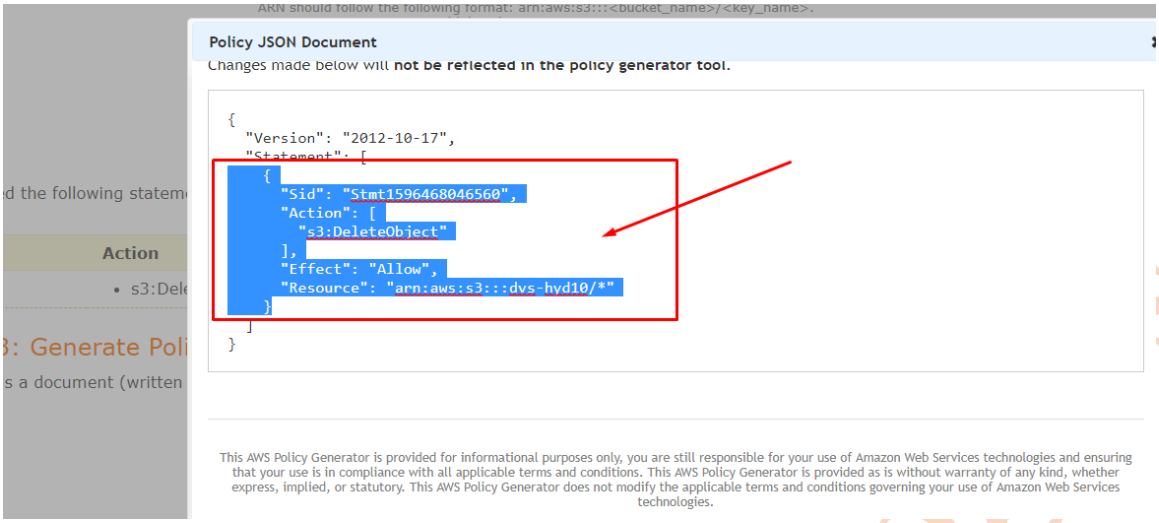
DVS Technologies Aws & Devops

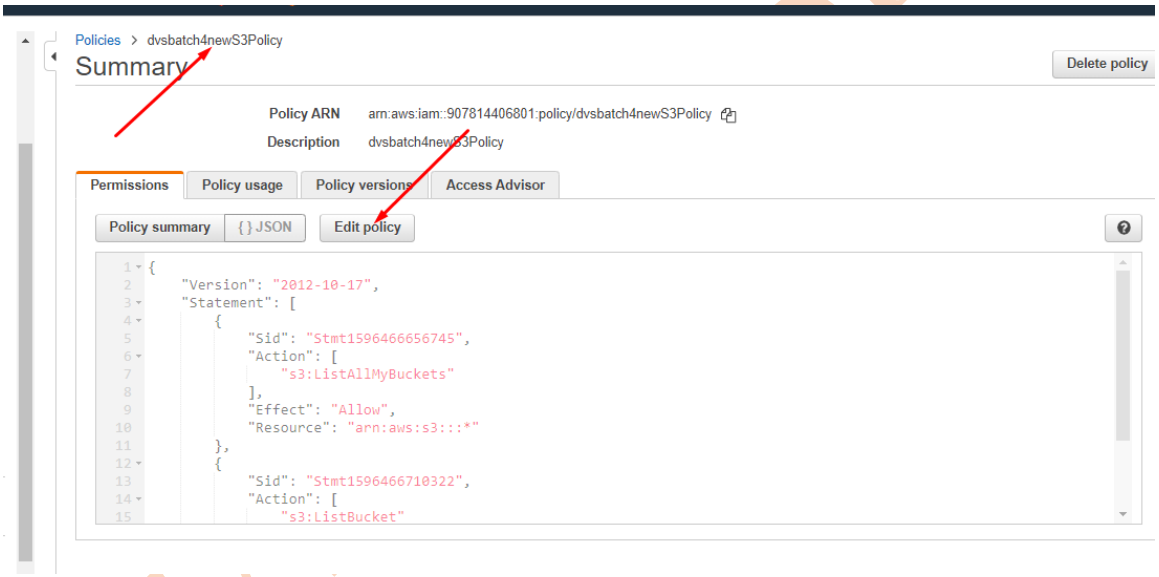


User dvsbatch4 failed to delete the data which is there in dvs-hyd10 bucket

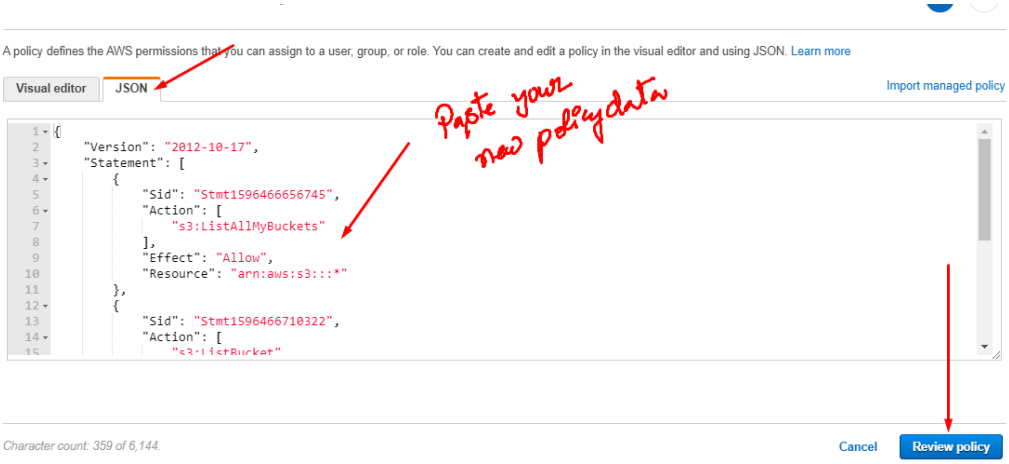


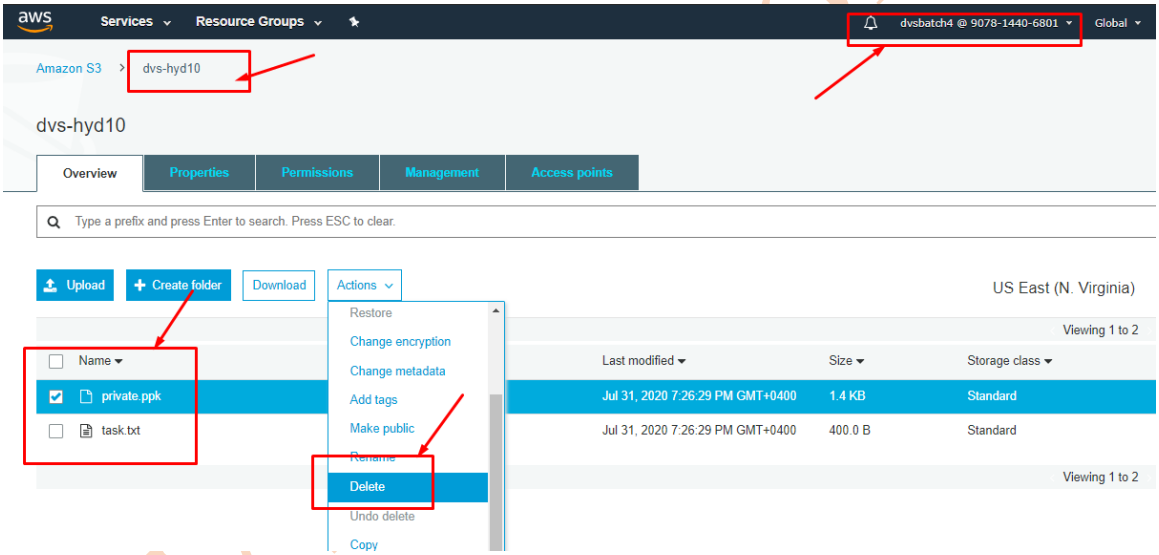
DVS Technologies Aws & Devops



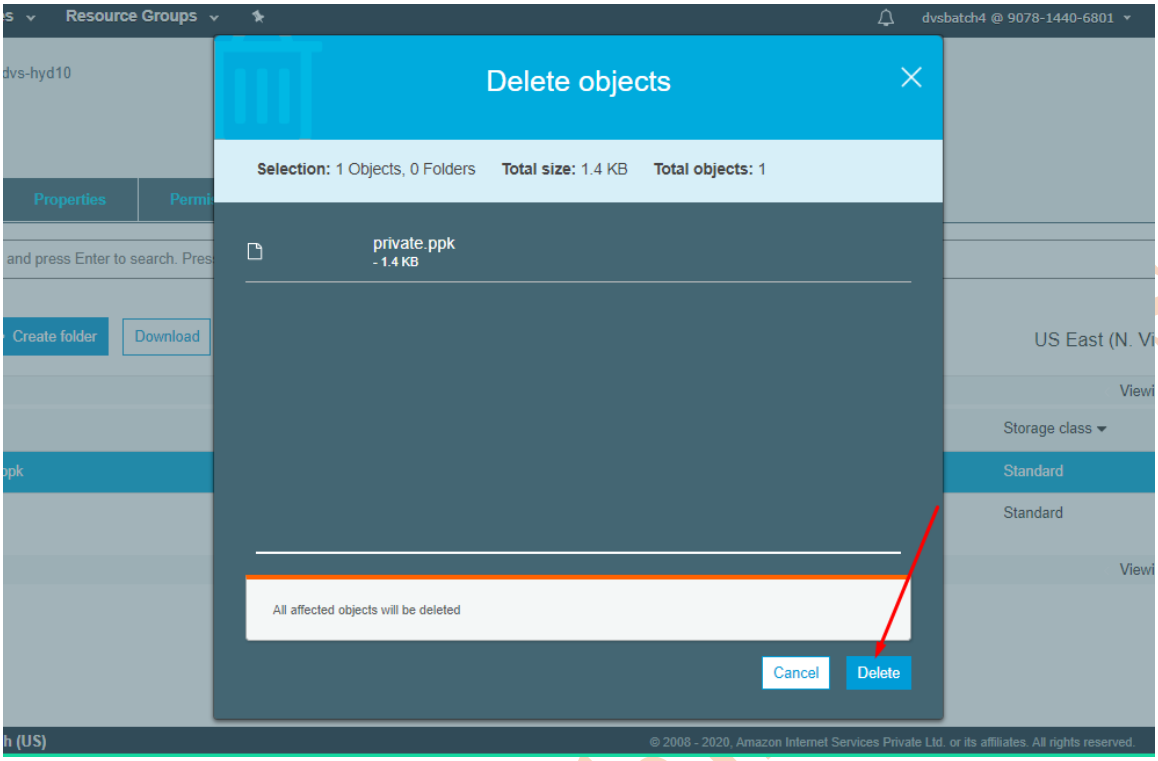


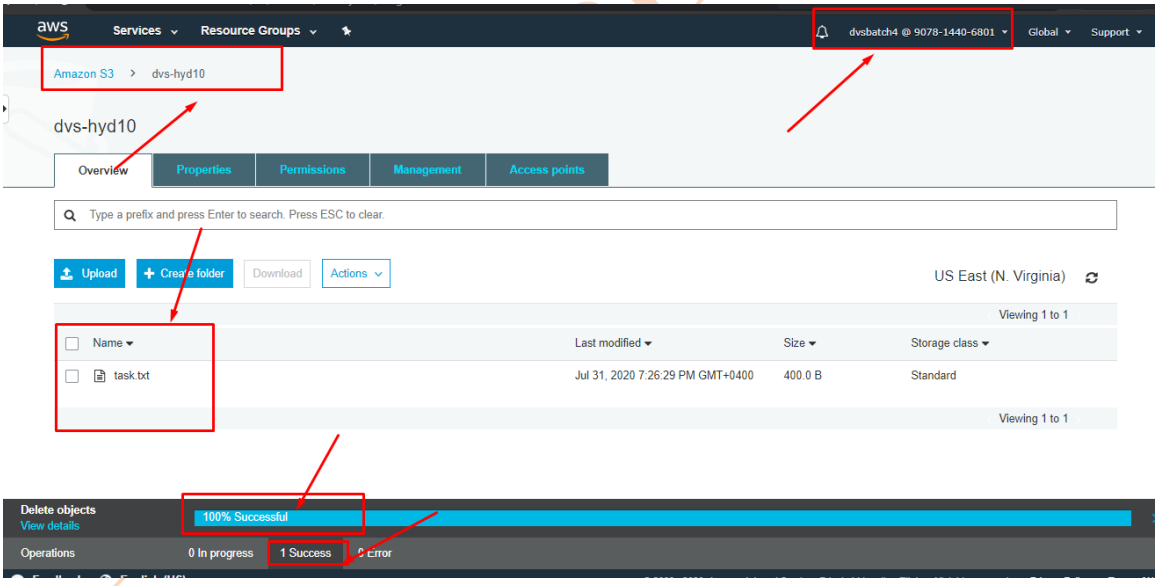
DVS Technologies Aws & Devops





DVS Technologies Aws & Devops





DVS Technologies Aws & Devops

9. Password Policy