

# AWS\_LAB01

## 1- Create aws account and set billing alarm :

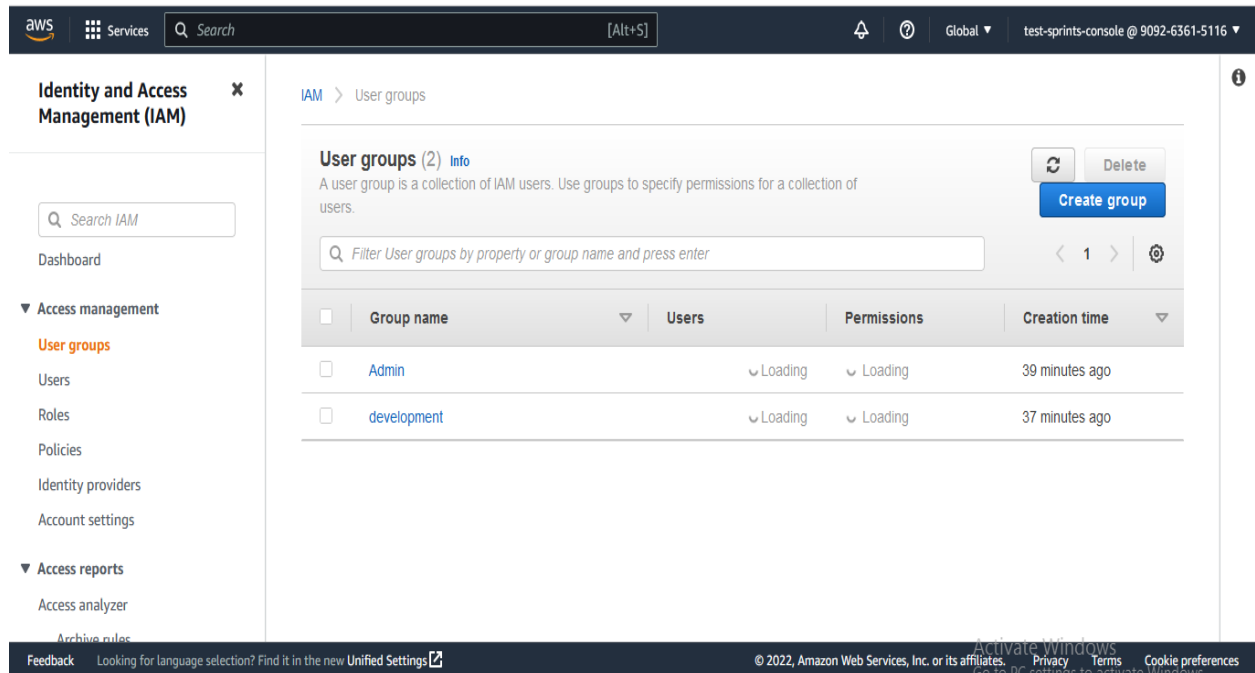
The screenshot shows the AWS Billing Console interface. The left sidebar contains navigation links: Home, Billing, Bills, Payments, Credits, Purchase orders, Cost & usage reports, Cost categories, Cost allocation tags, Free tier, Billing Conductor, Cost Management, Cost explorer, **Budgets**, and Budgets reports. The main content area displays the 'Overview' page for Budgets. At the top, there are two notification banners: a blue one about creating a budget from a template and a green one stating that budget 'Task01' has been created successfully. Below these, the breadcrumb 'Billing Console > Budgets > Overview' is shown. The 'Overview' section includes a 'Budgets (1)' header with a 'Download CSV' button and an 'Actions' dropdown. A search bar 'Find a budget' and a 'Show all budgets' dropdown are also present. A table lists the budget 'Task01' with a status of 'OK'. The table has columns for Name, Thresholds, Budget, Amount, Forecast, and Current vs. budget.

Name	Thresholds	Budget	Amount	Forecast	Current vs. budget
Task01	OK	\$2.00	\$0.00	-	

The screenshot shows the 'Budget details' page for 'Task01' in the AWS Billing Console. The breadcrumb is 'Billing Console > Budgets > Budget details'. A notification banner states: 'After creating a budget, it can take up to 24 hours to populate all of your spend data.' The 'Task01' section includes a 'Delete' and 'Edit' button. The 'Budget health' section shows two progress bars: 'Current vs. budgeted' (0.00%) and 'Forecasted vs budgeted (MTD)' (0.00%). The 'Alerts' section shows a 'Thresholds' status of 'OK' and an 'Actions' section with a 'View all alerts' link.

Current vs. budgeted	Forecasted vs budgeted (MTD)
0.00%	0.00%
Amount spent: \$0.00 of \$2.00	Amount spent: - of \$2.00

## 2.1 create 2 groups one admin and one for development :



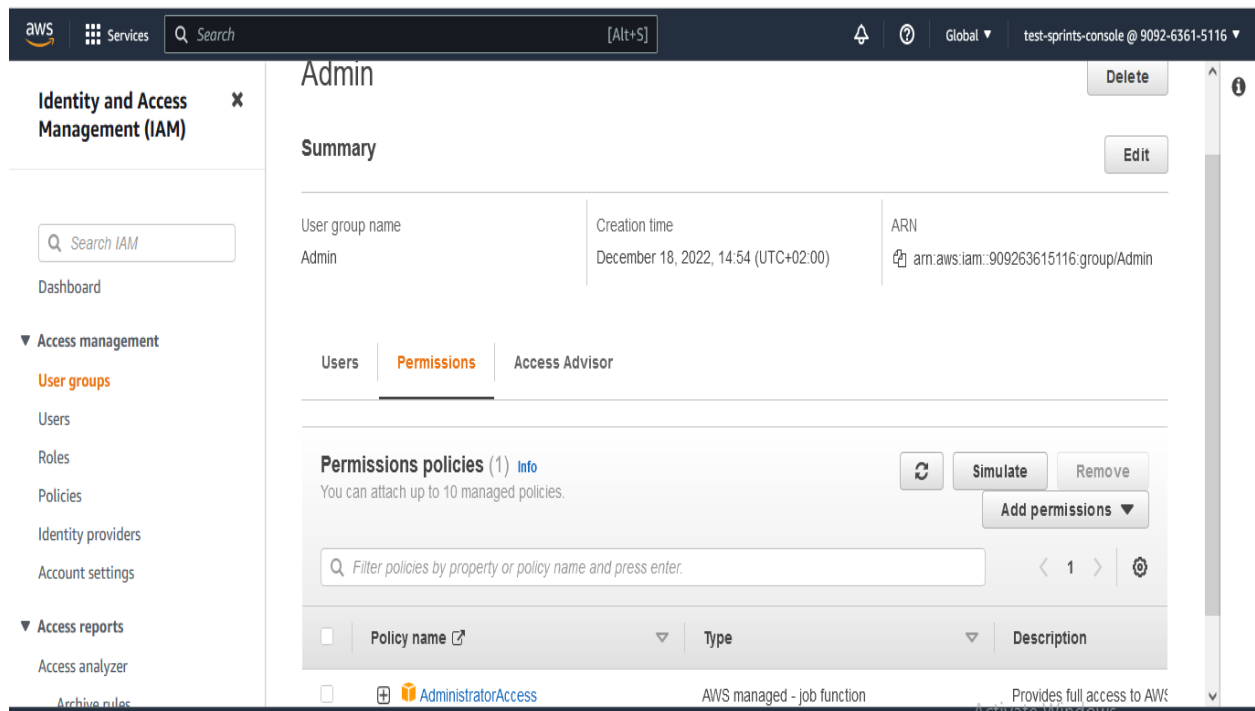
**User groups (2)** [Info](#)

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Filter User groups by property or group name and press enter

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	Admin	Loading	Loading	39 minutes ago
<input type="checkbox"/>	development	Loading	Loading	37 minutes ago

## 2.2 in the admin group it has admin permission , and in the development only access to s3 :



**Admin** [Delete](#)

**Summary** [Edit](#)

User group name: Admin  
Creation time: December 18, 2022, 14:54 (UTC+02:00)  
ARN: arn:aws:iam:909263615116:group/Admin

**Permissions** [Access Advisor](#)

**Permissions policies (1)** [Info](#)

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AdministratorAccess	AWS managed - job function	Provides full access to AWS

**development** Delete

**Summary** Edit

User group name development	Creation time December 18, 2022, 14:56 (UTC+02:00)	ARN <a href="#">arn:aws:iam::909263615116:group/development</a>
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[Users](#) **[Permissions](#)** [Access Advisor](#)

**Permissions policies (1)** [Info](#)

You can attach up to 10 managed policies.

< 1 > [Settings](#)

<input type="checkbox"/>	Policy name <a href="#">↗</a>	Type	Description
<input type="checkbox"/>	<a href="#">AmazonDMSRedshiftS3Role</a>	AWS managed	Provides access to manage S3 settings for Red...

## 2.3 create admin-1 user console access and mfa enabled :

**Introducing the new Users list experience**  
We've redesigned the Users list experience to make it easier to use. [Let us know what you think](#)

**The user admin-1 have been created.**

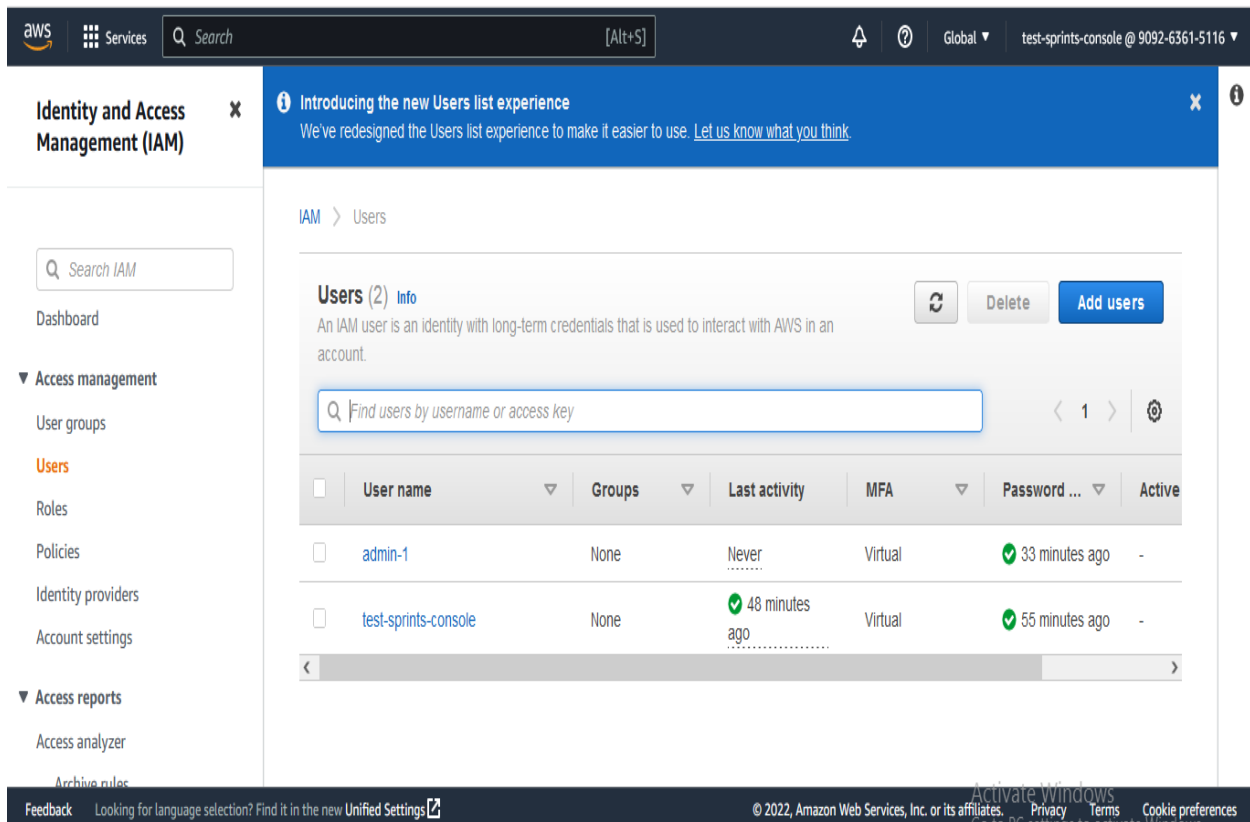
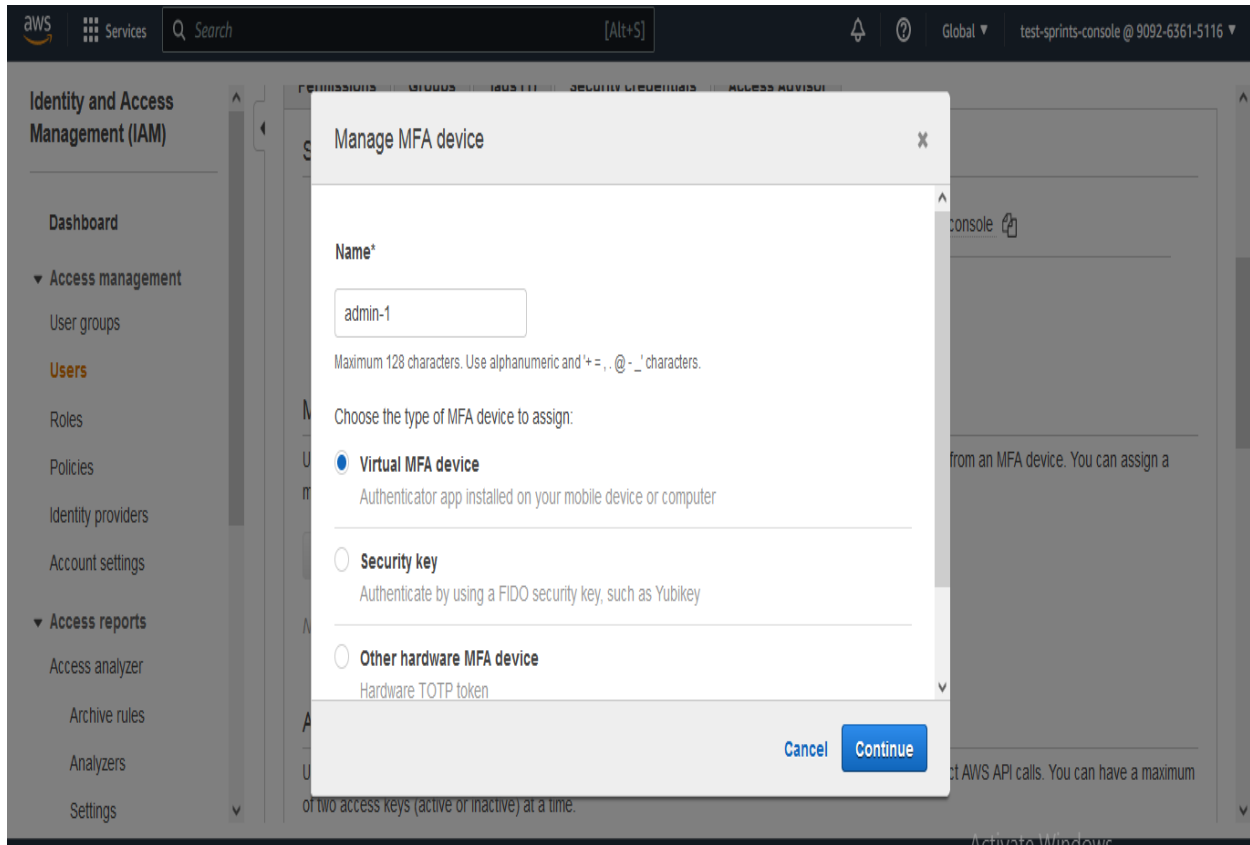
**admin-1** Users

**Users (2)** [Info](#) Refresh Delete Add users

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

< 1 > [Settings](#)

<input type="checkbox"/>	User name	Groups	Last activity	MFA	Password ...	Active
<input type="checkbox"/>	admin-1	None	Never	None	<span>Now</span>	-
<input type="checkbox"/>	test-sprints-console	None	<span>14 minutes ago</span>	Virtual	<span>22 minutes ago</span>	-



2.4 and admin2-prog with cli access only and list all users and groups using it commands not console :

aws

Services

Search

[Alt+S]

🔔

?

Global

test-sprints-console @ 9092-6361-5116

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- User groups
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analyzers
- Settings
- Credential report

Introducing the new Users list experience

We've redesigned the Users list experience to make it easier to use. [Let us know what you think.](#)

IAM > Users

Users (3) Info

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

Find users by username or access key

< 1 > ⚙

<input type="checkbox"/>	User name	Groups	Last activity	MFA	Password ...	Active key age
<input type="checkbox"/>	admin-1	None	Never	Virtual	✔ 20 hours ago	-
<input type="checkbox"/>	admin2-prog	Admin	Never	None	None	✔ 1 hour ago
<input type="checkbox"/>	test-sprints-console	None	✔ 1 hour ago	Virtual	✔ 21 hours ago	-

🔄

Delete

Add users

Activate Windows

Go to PC settings to activate Windows.

Feedback

Looking for language selection? Find it in the new [Unified Settings](#)

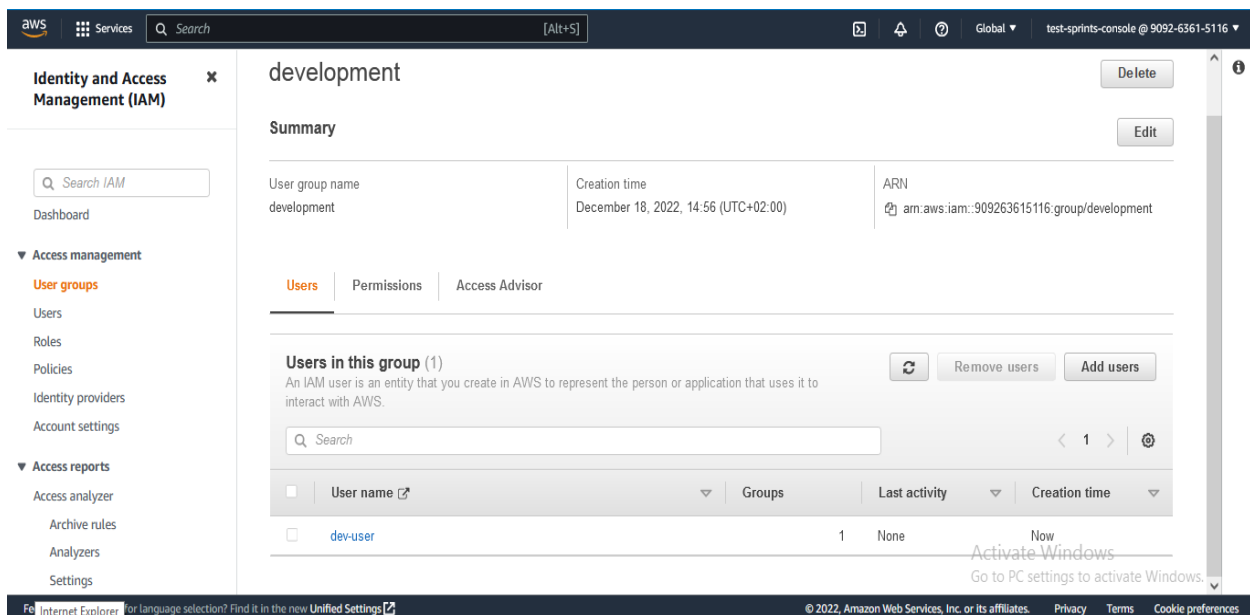
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[illegible]



```
root@localhost:~  
File Edit View Search Terminal Help  
[root@localhost ~]# aws iam list-groups --profile=sprints  
{  
  "Groups": [  
    {  
      "Path": "/",  
      "GroupName": "Admin",  
      "GroupId": "AGPA5HNCVWSGGFD3BK4AC",  
      "Arn": "arn:aws:iam::909263615116:group/Admin",  
      "CreateDate": "2022-12-18T12:54:50+00:00"  
    },  
    {  
      "Path": "/",  
      "GroupName": "development",  
      "GroupId": "AGPA5HNCVWSGEWASVUDQM",  
      "Arn": "arn:aws:iam::909263615116:group/development",  
      "CreateDate": "2022-12-18T12:56:25+00:00"  
    }  
  ]  
}
```

2.5 in the development group create user with name dev-user with programmatic access. Admin access try to access aws using it (take a screenshot from accessing ec2 and s3 console) :



aws

Services

Search

[Alt+S]

N. Virginia

dev-user @ 9092-6361-5116

New EC2 Experience

Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

Resources

EC2 Global view

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running) API Error

Dedicated Hosts API Error

Elastic IPs API Error

Instances API Error

Key pairs API Error

Load balancers API Error

Placement groups API Error

Security groups API Error

Snapshots API Error

Volumes API Error

Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#)

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance

Migrate a server

Service health

AWS Health Dashboard

Region

US East (N. Virginia)

Account attributes

Supported platforms

An error occurred

An error occurred retrieving supported platforms

An error occurred

An error occurred checking for a default VPC

Settings

EBS encryption

Zones

EC2 Serial Console

Default credit specification

Console experiments

Explore AWS

Activate Windows

Go to PC settings to activate Windows.

Feedback

Looking for language selection? Find it in the new Unified Settings

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aws

Services

Search

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Global

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Amazon S3

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight 3

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

Replicate data within and between AWS Regions using Amazon S3 Replication. [View tutorial](#)

Amazon S3 > Buckets

Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

Buckets Info

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3. [Learn more](#)

Find buckets by name

< 1 >

Name

AWS Region

Access

Creation date

No buckets

No buckets

Activate Windows

Go to PC settings to activate Windows

Feedback

Looking for language selection? Find it in the new Unified Settings

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2.6 Also access cli using it and try to get all users and groups using it :

[illegible][illegible]

```
root@localhost:~  
File Edit View Search Terminal Help  
[root@localhost ~]# aws iam list-users --profile=sprints2  
  
An error occurred (AccessDenied) when calling the ListUsers operation: User: arn:aws:iam::909263615116:user/dev-user is not authorized to perform: iam:ListUsers on resource: arn:aws:iam::909263615116:user/ because no identity-based policy allows the iam:ListUsers action  
[root@localhost ~]#
```

```
root@localhost:~  
File Edit View Search Terminal Help  
[root@localhost ~]# aws iam list-groups --profile=sprints2  
  
An error occurred (AccessDenied) when calling the ListGroups operation: User: arn:aws:iam::909263615116:user/dev-user is not authorized to perform: iam:ListGroups on resource: arn:aws:iam::909263615116:group/ because no identity-based policy allows the iam:ListGroups action  
[root@localhost ~]#  
[root@localhost ~]#
```