

**Users (4) Info**

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

	User name	Path	Group	Last activity	MFA	Password age	Console last sign-in
<input type="checkbox"/>	<a href="#">awsstudent</a>	/	Access denied	Access denied	Access denied	Access denied	-
<input type="checkbox"/>	<a href="#">user-1</a>	/spl66/	0	-	-	4 minutes	-
<input type="checkbox"/>	<a href="#">user-2</a>	/spl66/	0	-	-	4 minutes	-
<input type="checkbox"/>	<a href="#">user-3</a>	/spl66/	0	-	-	4 minutes	-

**Permissions**

ARN: [arn:aws:iam::182497477556:user/spl66/user-1](#)

Created: January 22, 2024, 23:22 (UTC+05:30)

Console access: Enabled without MFA

Last console sign-in: Never

Access key 1: AKIASU7NSQO2EZJKTR4S - Active  
Never used. Created today.

Access key 2: Create access key

**Permissions policies (0)**

Permissions are defined by policies attached to the user directly or through groups.

Filter by Type: All types

No resources to display

Permissions boundary (not set)

Generate policy based on CloudTrail events

**User groups (3)** Info

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

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	<a href="#">EC2-Admin</a>	0	Defined	4 minutes ago
<input type="checkbox"/>	<a href="#">EC2-Support</a>	0	Defined	4 minutes ago
<input type="checkbox"/>	<a href="#">S3-Support</a>	0	Defined	4 minutes ago

**Permissions policies (1)**

Permissions are defined by policies attached to the user directly or through groups.

Filter by Type: All types

<input type="checkbox"/>	Policy name	Type	Attached via
<input type="checkbox"/>	<a href="#">EC2-Admin-Policy</a>	Customer inline	Group <a href="#">EC2-Admin</a>

**EC2-Admin-Policy**

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Action": [
6         "ec2:Describe*",
7         "ec2:StartInstances",
8         "ec2:StopInstances"
9       ],
10      "Resource": [
11        "*"
12      ],
13      "Effect": "Allow"
14    }
15  ]
16 }
```

► **Permissions boundary (not set)**

The screenshot shows the AWS IAM console for user-2. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, Access reports, and CloudShell. The main content area displays the 'Permissions policies (1)' for user-2, showing a table with one policy: AmazonEC2ReadOnlyAccess. Below the table, the policy details for AmazonEC2ReadOnlyAccess are shown, including its JSON definition.

**Permissions policies (1)**

Permissions are defined by policies attached to the user directly or through groups.

Filter by Type: All types

Policy name	Type	Attached via
AmazonEC2ReadOnlyAccess	AWS managed	Group EC2-Support

**AmazonEC2ReadOnlyAccess**

Provides read only access to Amazon EC2 via the AWS Management Console.

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": "ec2:Describe*",
7       "Resource": "*"
8     },
9     {
10      "Effect": "Allow",
11      "Action": "elasticloadbalancing:Describe*",
12      "Resource": "*"
13    },
14    {
15      "Effect": "Allow",
16      "Action": [
17        "cloudwatch:ListMetrics",
18        "cloudwatch:GetMetricStatistics",
19        "cloudwatch:Describe*"
20      ],
21      "Resource": "*"
22    }
23  ]
24 }
```

The screenshot shows the AWS IAM console for user-1. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, Access reports, and CloudShell. The main content area displays the 'Permissions policies (1)' for user-1, showing a table with one policy: AmazonS3ReadOnlyAccess. Below the table, the policy details for AmazonS3ReadOnlyAccess are shown, including its JSON definition.

**Permissions policies (1)**

Permissions are defined by policies attached to the user directly or through groups.

Filter by Type: All types

Policy name	Type	Attached via
AmazonS3ReadOnlyAccess	AWS managed	Group S3-Support

**AmazonS3ReadOnlyAccess**

Provides read only access to all buckets via the AWS Management Console.

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "s3:Get*",
8         "s3:List*",
9         "s3:Describe*",
10        "s3-object-lambda:Get*",
11        "s3-object-lambda:List*"
12      ],
13      "Resource": "*"
14    }
15  ]
16 }
```

The screenshot shows the AWS IAM console 'User groups' page. The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, Users, Roles, Policies, Identity providers, Account settings, Access reports, Access Analyzer, External access, Unused access, Analyzer settings, Credential report, and Organization activity. The main content area shows 'User groups (3)' with a search bar and a table of groups.

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	<a href="#">EC2-Admin</a>	0	Defined	4 minutes ago
<input type="checkbox"/>	<a href="#">EC2-Support</a>	0	Defined	4 minutes ago
<input type="checkbox"/>	<a href="#">S3-Support</a>	0	Defined	4 minutes ago

The bottom of the screenshot shows the Windows taskbar with the date 22-01-2024 and time 23:27.

This screenshot is similar to the first one, showing the AWS IAM console 'User groups' page. The main content area shows 'User groups (3)' with a search bar and a table of groups.

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	<a href="#">EC2-Admin</a>	1	Defined	37 minutes ago
<input type="checkbox"/>	<a href="#">EC2-Support</a>	1	Defined	37 minutes ago
<input type="checkbox"/>	<a href="#">S3-Support</a>	1	Defined	37 minutes ago

The bottom of the screenshot shows the Windows taskbar with the date 21-01-2024 and time 23:10.

Amazon S3 console screenshot showing the 'General purpose buckets' section. The console displays a table with one bucket named 'samplebucket--d19447d0' in the 'US East (N. Virginia) us-east-1' region. The bucket's access is set to 'Bucket and objects not public'. The console also shows a sidebar with navigation options like Buckets, Access Grants, and Storage Lens.

Name	AWS Region	Access	Creation date
samplebucket--d19447d0	US East (N. Virginia) us-east-1	Bucket and objects not public	January 21, 2024, 22:32:24 (UTC+05:30)

Amazon EC2 console screenshot showing the 'Instances' section. The console displays a message stating that the user is not authorized to perform the 'ec2:DescribeInstances' action. The console also shows a sidebar with navigation options like EC2 Dashboard, EC2 Global View, and Instances.

You are not authorized to perform this operation. User: arn:aws:iam::182497477556:user/spl66/user-1 is not authorized to perform: ec2:DescribeInstances because no identity-based policy allows the ec2:DescribeInstances action

Select an instance

The screenshot shows the AWS S3 console interface. The left sidebar contains navigation links for Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Storage Lens, Dashboards, Storage Lens groups, AWS Organizations settings, Feature spotlight, and AWS Marketplace for S3. The main content area is titled 'Buckets' and includes an 'Account snapshot' section with a 'View Storage Lens dashboard' button. Below this, there are tabs for 'General purpose buckets' and 'Directory buckets'. The 'General purpose buckets' section has a search bar with the placeholder 'Find buckets by name' and buttons for 'Copy ARN', 'Empty', 'Delete', and 'Create bucket'. A red error message is displayed: 'You don't have permissions to list buckets. After you or your AWS administrator has updated your permissions to allow the s3:ListAllMyBuckets action, refresh this page. Learn more about Identity and access management in Amazon S3'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date and time.

The screenshot shows the AWS EC2 console interface. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Console-to-Code, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, and Snapshots. The main content area is titled 'Instances (2)' and includes a search bar with the placeholder 'Find Instance by attribute or tag (case-sensitive)'. Below the search bar, there is a table listing two instances:

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	LabHost	i-0b6a0bd7005d6315d	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-227-97-6
<input type="checkbox"/>	Bastion Host	i-04773f6f63b8eb7b5	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-34-228-190-

Below the table, there is a 'Select an instance' dialog box. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date and time.

**Failed to stop the instance i-0b6a0bd7005d6315d**

You are not authorized to perform this operation. User: arn:aws:iam::182497477556:user/spl66/user-2 is not authorized to perform: ec2:StopInstances on resource: arn:aws:ec2:us-east-1:182497477556:instance/i-0b6a0bd7005d6315d because no identity-based policy allows the ec2:StopInstances action. Encoded authorization failure message: BsDKcev2YjeUYNjkgT1Vw23tPW74bxQLiikvOF5iBhwtGKvxcfdyW1D66vT3cWGCm8Y5voY0CbECB6g8ZHh-1yf23MyaOjtXRIBVAWak7zRdPCGZ6yKvRmqFmx\_YG3tl0fpKSEnPOLZGegggzGstDXp81qmUnL8n977z6ghAJ5wtABJNKR6uDKm53z\_p1UaxpSC1Ukd9nD5jEJvJ8anLskU96L9sRRQLcvTzqGQfFE3M9xvphn00Ey9Hm1nbKF7D5b2Y2GMT0tHycDPA6q88YuEXPVeZD0vKGPdKXnpG8SI\_6ZlQyTktZtsGxYsRlYrjdHncHT\_5oC7QM1Z4pj6zanWae0g3LzhVSb-Ir6JIJMqe1CxpzJKSY4Q4TgT4mydTDJSgAw1gz5xexLSmcmIM9y94vu7I0UZDhd0WW1\_Dszz8-YN\_PRZvKICM2vis\_SjvsXnDib-P5xsH\_rFYxuXAPCZ\_05BRAGN\_tg3OHOMtRd97Ukpoqj0h0GbkcfwUB\_POKzQcOthnWidzyvGQtIFWJGjSjnQiDgOYVGB3VRzC5xDubWMFYkMQcbuf2W0I1L79i1pblZSyEVzMb2j6FUVifRcf4u86yzGknDsiddMZB9Jgo3aQCfbO56Oq680bXFFU4pvq0fVjNjXGiyR\_8Qx2u7B53FOLb6wR1MOFK9NjavyL6hmiMi2ETG1NjuSFJ0IEtsJPdXDUQ5ffmUaybCJ2bFnme2NO35v3MjxSWGUpdpzVTU3TcOqGPUP7DN2SwN1ofjvdeUgNPgxwRCVP0z2wXlozKZceWwqwkT\_uLDLfk6NmlwC62UpHaqG\_cpCKINMpy9a4LammDI2CYg44-cyZFUzPCk8oBfzva4EWjnoESkj2UjIKL-d8byocO-HWpu-p8g-1As6GF-F3lGmND7QyE3u\_wGHathlfnwLNTyk6eg2\_8U2GBorZPMLPLakfV0OyXE\_TFeRwXgmW6FjbyD1yY84xv4ucQ14V0lZoamQMU

**Instances (1/2) Info**

Find Instance by attribute or tag (case-sensitive)

**Instance: i-0b6a0bd7005d6315d (LabHost)**

**Details** | Status and alarms New | Monitoring | Security | Networking | Storage | Tags

**▼ Instance summary Info**

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0b6a0bd7005d6315d (LabHost)	54.227.97.62 <a href="#">open address</a>	10.1.11.181
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-54-227-97-62.compute-1.amazonaws.com <a href="#">open address</a>
Hostname type	Private IP DNS name (IPv4 only)	
IP name: io-10-1-11-181.ec2.internal	io-10-1-11-181.ec2.internal	

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

**Successfully stopped i-0b6a0bd7005d6315d**

**Instances (1/2) Info**

Find Instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input checked="" type="checkbox"/>	LabHost	i-0b6a0bd7005d6315d	Stopping	t2.micro	2/2 checks passed	User: arn:aws:iam::182497477556:user/spl66/user-2	us-east-1a	ec2-54-227-97-62
<input type="checkbox"/>	Bastion Host	i-04773f6f63b8eb7b5	Running	t2.micro	2/2 checks passed	User: arn:aws:iam::182497477556:user/spl66/user-2	us-east-1a	ec2-34-228-190-

**Instance: i-0b6a0bd7005d6315d (LabHost)**

**Details** | Status and alarms New | Monitoring | Security | Networking | Storage | Tags

**▼ Instance summary Info**

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0b6a0bd7005d6315d (LabHost)	54.227.97.62 <a href="#">open address</a>	10.1.11.181
IPv6 address	Instance state	Public IPv4 DNS
-	Stopping	ec2-54-227-97-62.compute-1.amazonaws.com <a href="#">open address</a>
Hostname type	Private IP DNS name (IPv4 only)	
IP name: io-10-1-11-181.ec2.internal	io-10-1-11-181.ec2.internal	

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

The screenshot shows the AWS VPC console for a VPC named 'lab-vpc' in the us-east-1 region. The console displays various configuration details and a resource map.

**VPC Details:**

- Tenancy: Default
- Default VPC: No
- Network Address Usage metrics: Disabled
- DHCP option set: dopt-08ed17c22fb2d4639
- IPv4 CIDR: 10.0.0.0/16
- Route 53 Resolver DNS Firewall rule groups: -
- Main route table: rtb-0464669b96254ab15
- IPv6 pool: -
- Owner ID: 510914929106
- Main network ACL: acl-0f72dbb15661d5971
- IPv6 CIDR (Network border group): -

**Resource map:**

- VPC:** lab-vpc
- Subnets (2):** Subnets within this VPC
  - us-east-1a
    - lab-subnet-public1-us-east-1a
    - lab-subnet-private1-us-east-1a
- Route tables (3):** Route network traffic to resources
  - lab-rtb-private1-us-east-1a
  - lab-rtb-public
  - rtb-0464669b96254ab15
- Network connections:** Connections to other resources
  - lab-igw
  - lab-nat-public

The console also shows a sidebar with navigation options for VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections, and Security (Network ACLs). The bottom of the console shows the CloudShell and Feedback buttons, along with the AWS logo and copyright information.



The screenshot shows the AWS Management Console interface for the 'Subnets' page. A green notification banner at the top states: 'You have successfully created 1 subnet: subnet-06f44e05f1e5d3449'. The left sidebar contains navigation links for 'VPC dashboard', 'EC2 Global View', and a 'Filter by VPC' dropdown. Under 'Virtual private cloud', there are links for 'Your VPCs', 'Subnets', 'Route tables', 'Internet gateways', 'Egress-only internet gateways', 'Carrier gateways', 'DHCP option sets', 'Elastic IPs', 'Managed prefix lists', 'Endpoints', 'Endpoint services', 'NAT gateways', and 'Peering connections'. Under 'Security', there is a link for 'Network ACLs'. The main content area shows a table of subnets with the following data:

	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	lab-subnet-public2	subnet-06f44e05f1e5d3449	Available	vpc-0b2d69dfce767dfbc   lab-vpc	10.0.2.0/24

Below the table, there is a 'Select a subnet' section with a search bar and a 'Clear filters' button. The bottom of the console shows a Windows taskbar with the date '22-01-2024' and time '00:59'.

The screenshot shows the AWS Management Console interface for the 'Subnets' page. A green notification banner at the top states: 'You have successfully created 1 subnet: subnet-0c423dd174921b842'. The left sidebar contains navigation links for 'VPC dashboard', 'EC2 Global View', and a 'Filter by VPC' dropdown. Under 'Virtual private cloud', there are links for 'Your VPCs', 'Subnets', 'Route tables', 'Internet gateways', 'Egress-only internet gateways', 'Carrier gateways', 'DHCP option sets', 'Elastic IPs', 'Managed prefix lists', 'Endpoints', 'Endpoint services', 'NAT gateways', and 'Peering connections'. Under 'Security', there is a link for 'Network ACLs'. The main content area shows a table of subnets with the following data:

	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	lab-subnet-private2	subnet-0c423dd174921b842	Available	vpc-0b2d69dfce767dfbc   lab-vpc	10.0.3.0/24

Below the table, there is a 'Select a subnet' section with a search bar and a 'Clear filters' button. The bottom of the console shows a Windows taskbar with the date '22-01-2024' and time '01:01'.

Subnets | VPC Management Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets:SubnetId=subnet-0c423dd174921b842

aws Services Search [Alt+S] N. Virginia voclabs/user2584991=21BQ1A42F8@vvit.net @ 5109-1492-9106

**You have successfully created 1 subnet: subnet-0c423dd174921b842**

**Subnets (1) Info**

Find resources by attribute or tag

Subnet ID: subnet-0c423dd174921b842 Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	lab-subnet-private2	subnet-0c423dd174921b842	Available	vpc-0b2d69dfce767dfbc   lab-vpc	10.0.3.0/24

Select a subnet

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

22°C Mostly clear

Route tables | VPC Management Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTables:

aws Services Search [Alt+S] N. Virginia voclabs/user2584991=21BQ1A42F8@vvit.net @ 5109-1492-9106

**You have successfully updated subnet associations for rtb-07e448eb60f7bd114 / lab-rtb-public.**

**Route tables (1/6) Info**

Find resources by attribute or tag

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC
<input type="checkbox"/>	lab-rtb-private1-us-east-1a	rtb-08d096a5c3935055e	2 subnets	-	No	vpc-0b2d69dfce767dfbc
<input checked="" type="checkbox"/>	lab-rtb-public	rtb-07e448eb60f7bd114	2 subnets	-	No	vpc-0b2d69dfce767dfbc
<input type="checkbox"/>	-	rtb-017d97ec91e2cbc6e	-	-	Yes	vpc-0e9993b62b3e09dl
<input type="checkbox"/>	-	rtb-0464669b96254ab15	-	-	Yes	vpc-0b2d69dfce767dfbc
<input type="checkbox"/>	-	rtb-05f5291c358b0d0a2	-	-	Yes	vpc-0066c9aca568a947
<input type="checkbox"/>	Work Public Route Table	rtb-0af12bb830cff8459	subnet-0c3d203a2eebf...	-	No	vpc-0e9993b62b3e09dl

**rtb-07e448eb60f7bd114 / lab-rtb-public**

Details Routes Subnet associations Edge associations Route propagation Tags

**Details**

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-07e448eb60f7bd114	No	2 subnets	-
VPC	Owner ID		

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

22°C Mostly clear

The screenshot displays the AWS Management Console interface. At the top, a green banner indicates that the security group 'sg-0588854ab6c384f94' was created successfully. The main content area shows the details for this 'Web Security Group'. The details table includes the following information:

Details			
Security group name	Security group ID	Description	VPC ID
Web Security Group	sg-0588854ab6c384f94	Enable HTTP Access	vpc-0b2d69dfce767dfbc
Owner	Inbound rules count	Outbound rules count	
510914929106	1 Permission entry	1 Permission entry	

Below the details table, there are tabs for 'Inbound rules', 'Outbound rules', and 'Tags'. The 'Inbound rules' tab is currently selected, showing one rule. The interface also includes a left-hand navigation menu with options like 'VPC dashboard', 'EC2 Global View', and 'Virtual private cloud'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time as 01:20 on 22-01-2024.

Launch an instance | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Success  
Successfully initiated launch of instance (i-05ef964b0fb1fb865)

Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts  
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.  
[Create billing alerts](#)

Connect to your instance  
Once your instance is running, log into it from your local computer.  
[Connect to instance](#)  
[Learn more](#)

Connect an RDS database  
Configure the connection between an EC2 instance and a database to allow traffic flow between them.  
[Connect an RDS database](#)  
[Create a new RDS database](#)  
[Learn more](#)

Create EBS snapshot policy  
Create a policy that automates the creation, retention, and deletion of EBS snapshots.  
[Create EBS snapshot policy](#)

CloudShell Feedback

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

22°C Mostly clear

Search

ENG IN 01:37 22-01-2024

Welcome to AWS Technical Essentials

aws Load Test RDS

Meta-Data	Value
InstanceId	i-05ef964b0fb1fb865
Availability Zone	us-east-1b

Current CPU Load: 0%

Not secure ec2-54-204-60-91.compute-1.amazonaws.com

22°C Clear

Search

ENG IN 01:43 22-01-2024