LAB:09

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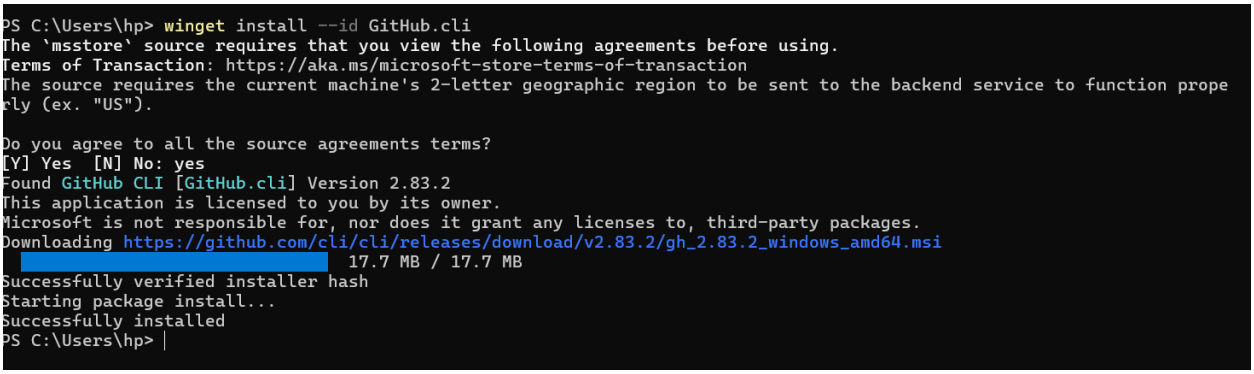
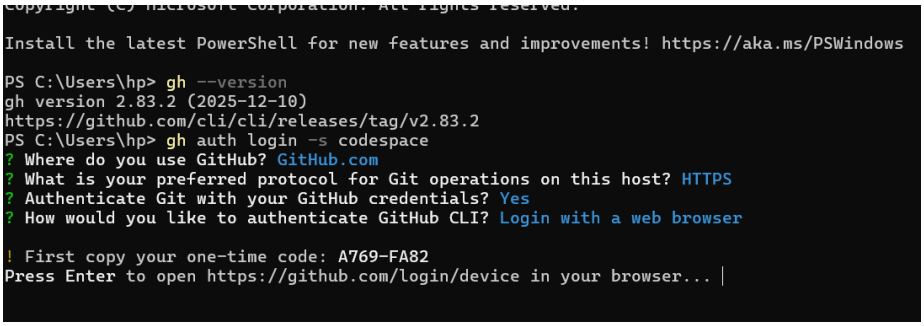
Bse-2023-014

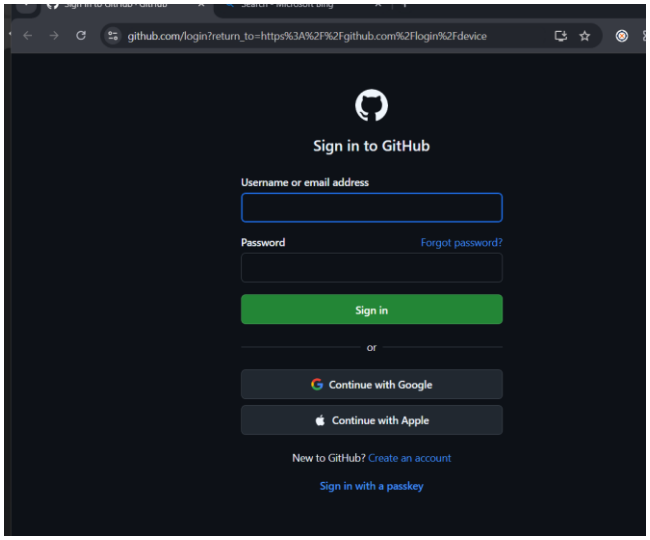
Task 1: GitHub CLI, Codespace Setup and Authentication

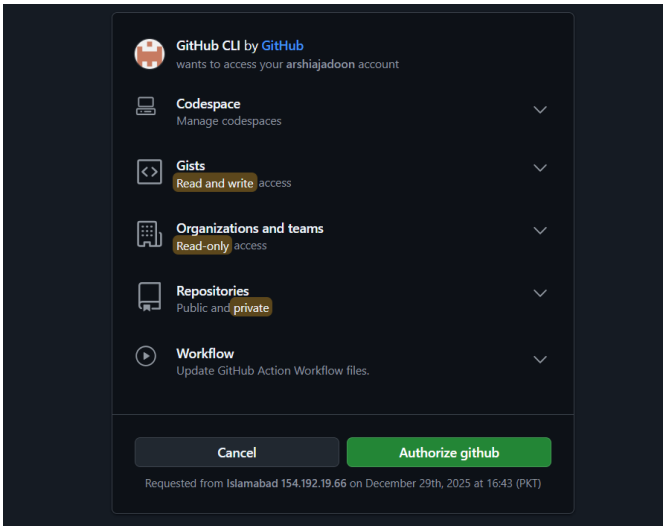
task1_gh_install.png

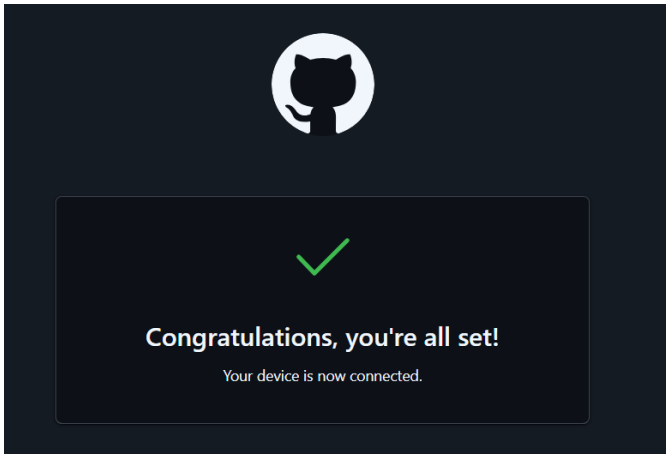


task1_gh_auth_login.png









task1_codespace_list.png

```
? Choose Machine Type: 2 cores, 8 GB RAM, 32 GB storage
super-duper-space-system-pj5wr9v4x96j2rv9v
PS C:\Users\hp\LAB_9> gh codespace list
NAME                          DISPLAY NAME            REPOSITORY          BRANCH  STATE      CREATED AT
super-duper-space-system-pj5w...  super-duper space sy...  arshiajadoon/LAB_9  main    Available  less than a minute ago
PS C:\Users\hp\LAB_9>
```

task1_codespace_ssh_connected.png

```
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the e
applicable law.

@arshiajadoon → /workspaces/LAB_9 (main) $
```

Task 2: Install AWS CLI Inside Codespace

task2_aws_install_and_version.png

```
You can now run: /usr/local/bin/aws --version
@arshiajadoon → /workspaces/LAB_9 (main) $ aws --version
aws-cli/2.32.24 Python/3.13.11 Linux/6.8.0-1030-azure exe/x86_64.ubuntu.24
@arshiajadoon → /workspaces/LAB_9 (main) $
```

task2_aws_configure_and_files.png

```
@arshiajadoon → /workspaces/LAB_9 (main) $ aws configure
AWS Access Key ID [None]: AKIAVEWO74P2FM5KLY4V
AWS Secret Access Key [None]: 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
Default region name [None]: us-east-1
Default output format [None]: json
@arshiajadoon → /workspaces/LAB_9 (main) $
```

task2_aws_configure_and_files.png

```
cat ~/.aws/config
[default]
aws_access_key_id = AKIAVEWO74P2FM5KLY4V
aws_secret_access_key = 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
[default]
region = us-east-1
output = json
@arshiajadoon → /workspaces/LAB_9 (main) $
```

task2_aws_get_caller_identity.png

```
@arshiajadoon → /workspaces/LAB_9 (main) $ aws sts get-caller-identity
{
    "UserId": "353695163380",
    "Account": "353695163380",
    "Arn": "arn:aws:iam::353695163380:root"
}
@arshiajadoon → /workspaces/LAB_9 (main) $
```

Task 3: Create Security Group and Add Ingress Rules

```
@arshiajadoon → /workspaces/LAB_9 (main) $ au
-----------------------------------
|          DescribeVpcs           |
+-------------------------+-------+
|  vpc-0399fce17f59406f7  |  True |
+-------------------------+-------+
```

task3_describe_sg_before_ingress.png


```
{
    "SecurityGroups": [
        {
            "GroupId": "sg-01fd8e6e7dc115fb6",
            "IpPermissionsEgress": [
                {
                    "IpProtocol": "-1",
                    "UserIdGroupPairs": [],
                    "IpRanges": [
                        {
                            "CidrIp": "0.0.0.0/0"
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": []
                }
            ],
            "VpcId": "vpc-0399fce17f59406f7",
            "SecurityGroupArn": "arn:aws:ec2:us-east-1:353695163
            "OwnerId": "353695163380",
            "GroupName": "MySecurityGroup",
            "Description": "My Security Group",
            "IpPermissions": [
                {
                    "IpProtocol": "tcp",
                    "FromPort": 22,
                    "ToPort": 22,
                    "UserIdGroupPairs": [],
                    "IpRanges": [
:
```


task3_codespace_public_ip.png

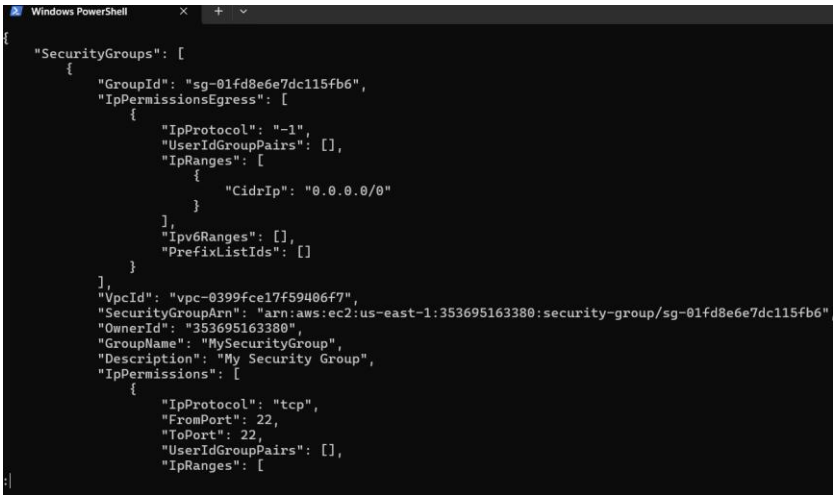
```
@arshiajadoon → /workspaces/LAB_9 (main) $ curl icanhazip.com
20.192.21.50
@arshiajadoon → /workspaces/LAB_9 (main) $
```

task3_authorize_ssh_and_describe.png

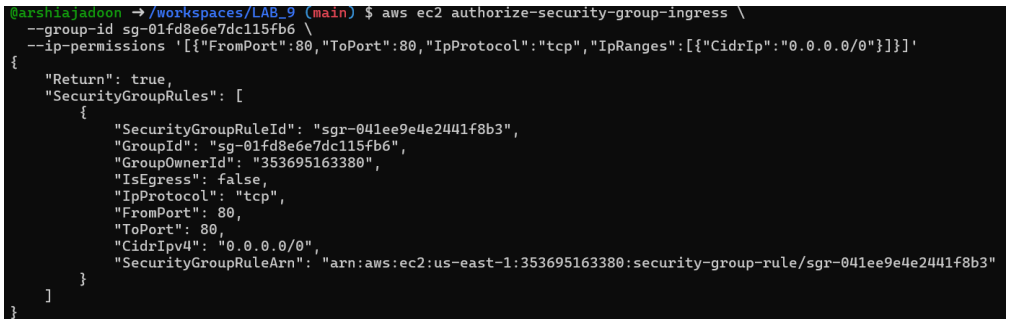
```
  --port 22 \
  --cidr 0.0.0.0/0

An error occurred (InvalidPermission.Duplicate) when calling the AuthorizeSecurityGroupIngress operation: the specified
rule "peer: 0.0.0.0/0, TCP, from port: 22, to port: 22, ALLOW" already exists
@arshiajadoon → /workspaces/LAB_9 (main) $
```

task3_authorize_ssh_and_describe.png



task3_authorize_http_and_describe.png



task3_describe_sg_final.png

task4_create_keypair_output.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 create-key-pair \
  --key-name MyED25519Key \
  --key-type ed25519 \
  --key-format pem \
  --query 'KeyMaterial' \
  --output text > MyED25519Key.pem
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ ls -l MyED25519Key.pem
-rw-rw-rw- 1 codespace codespace 388 Dec 29 13:15 MyED25519Key.pem
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task4_describe_keypairs.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-key-pairs
{
    "KeyPairs": [
        {
            "KeyPairId": "key-09f44f47900193352",
            "KeyType": "ed25519",
            "Tags": [],
            "CreateTime": "2025-12-29T13:15:50.652000+00:00",
            "KeyName": "MyED25519Key",
            "KeyFingerprint": "/jSbwYMygM5dJ5YYhf26NAz1qPIroxOyNnTRtMICmiw="
        }
    ]
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

Subnet ID:

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-subnets --query "Subnets[*].[SubnetId,AvailabilityZone,VpcId
]" --output table
-------------------------------------------------------------
|                      DescribeSubnets                      |
+--------------------------+-------------+-------------------+
|  subnet-05c052b94657a123e |  us-east-1c |  vpc-0399fce17f59406f7  |
|  subnet-0e92b2e93c4e8bc5f |  us-east-1b |  vpc-0399fce17f59406f7  |
|  subnet-0bba07c411ac1c522 |  us-east-1e |  vpc-0399fce17f59406f7  |
|  subnet-00d8443b59ed0d5a1 |  us-east-1a |  vpc-0399fce17f59406f7  |
|  subnet-0416380fce11c79c2 |  us-east-1d |  vpc-0399fce17f59406f7  |
|  subnet-0202cfeed42946fdc |  us-east-1f |  vpc-0399fce17f59406f7  |
+--------------------------+-------------+-------------------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

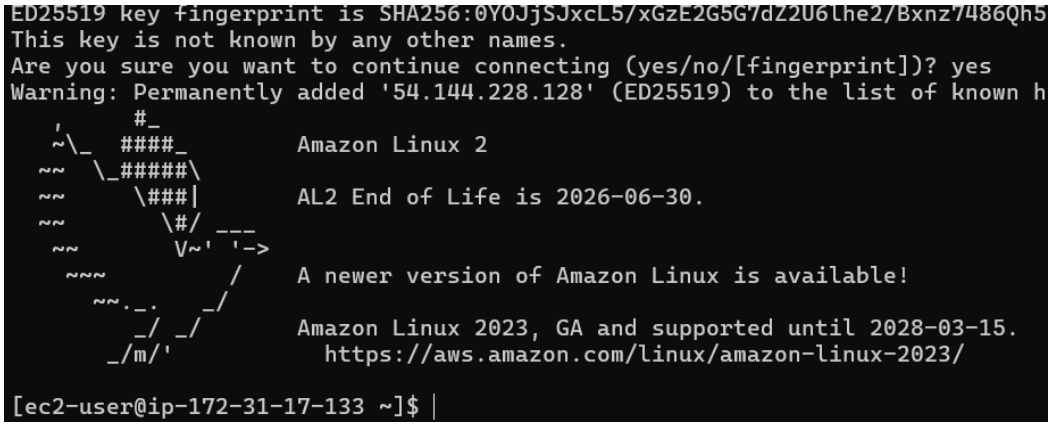
Finding ami id:

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-images \
  --owners amazon \
  --filters "Name=name,Values=amzn2-ami-hvm-*-x86_64-gp2" \
  --query "Images | sort_by(@, &CreationDate) | [-1].[ImageId,Name]" \
  --output table
-------------------------------------------
|            DescribeImages               |
+-----------------------------------------+
|  ami-03f9680ef0c07a3d1                  |
|  amzn2-ami-hvm-2.0.20251208.0-x86_64-gp2  |
+-----------------------------------------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

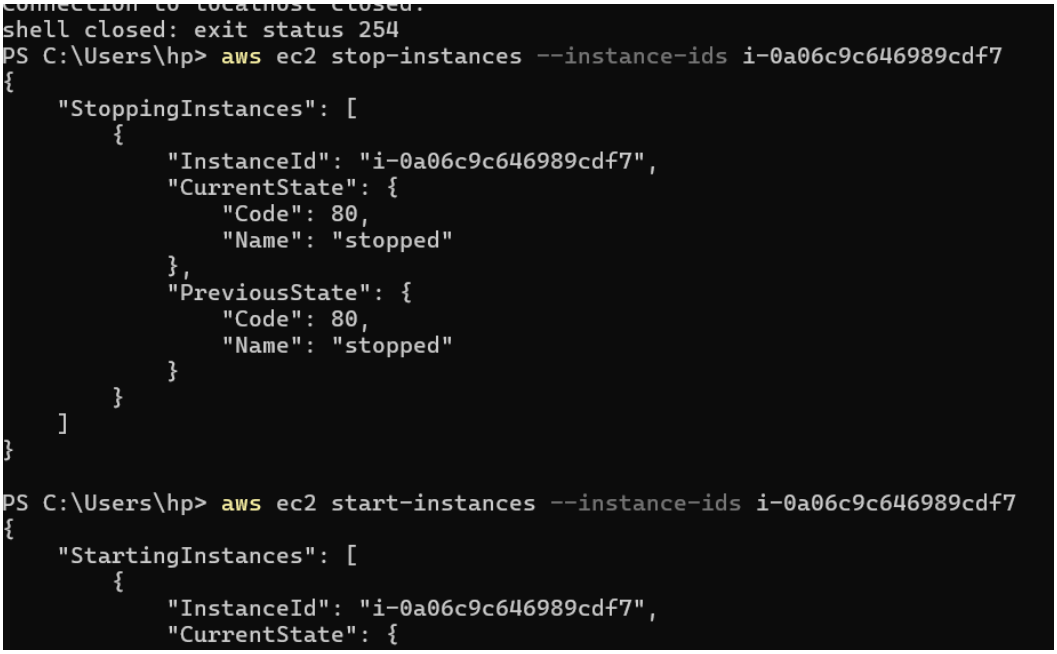
Instance id:

```
  --output table
-----------------------------------------------------
|                  DescribeInstances                |
+----------------------+------------------+----------+
|  i-0a06c9c646989cdf7 |  54.144.228.128  |  running |
+----------------------+------------------+----------+
```

task4_ssh_permission_error_and_fix.png



task4_stop_start_terminate_commands.png



```
PS C:\Users\hp> aws ec2 start-instances --instance-ids i-0a06c9c646989cdf7
{
    "StartingInstances": [
        {
            "InstanceId": "i-0a06c9c646989cdf7",
            "CurrentState": {
                "Code": 0,
                "Name": "pending"
            },
            "PreviousState": {
                "Code": 80,
                "Name": "stopped"
            }
        }
    ]
}

PS C:\Users\hp>
```

task5_describe_security_groups.png

```
{
    "SecurityGroups": [
        {
            "GroupId": "sg-03e7e8748d98464f7",
            "IpPermissionsEgress": [
                {
                    "IpProtocol": "-1",
                    "UserIdGroupPairs": [],
                    "IpRanges": [
                        {
                            "CidrIp": "0.0.0.0/0"
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": []
                }
            ],
            "VpcId": "vpc-0399fce17f59406f7",
            "SecurityGroupArn": "arn:aws:ec2:us-east-1:353695163
            "OwnerId": "353695163380",
            "GroupName": "default",
            "Description": "default VPC security group",
            "IpPermissions": [
                {
                    "IpProtocol": "-1",
                    "UserIdGroupPairs": [
                        {
                            "UserId": "353695163380",
                            "GroupId": "sg-03e7e8748d98464f7"
-- More  --
```

task5_describe_vpcs.png

```
PS C:\Users\hp> aws ec2 describe-vpcs
{
    "Vpcs": [
        {
            "OwnerId": "353695163380",
            "InstanceTenancy": "default",
            "CidrBlockAssociationSet": [
                {
                    "AssociationId": "vpc-cidr-assoc-0bd44b83db8727f98",
                    "CidrBlock": "172.31.0.0/16",
                    "CidrBlockState": {
                        "State": "associated"
                    }
                }
            ],
            "IsDefault": true,
            "BlockPublicAccessStates": {
                "InternetGatewayBlockMode": "off"
            },
            "VpcId": "vpc-0399fce17f59406f7",
            "State": "available",
            "CidrBlock": "172.31.0.0/16",
            "DhcpOptionsId": "dopt-0fb5d1a9bea1c4902"
        }
    ]
}
```

task5_describe_subnets.png

```
{
    "Subnets": [
        {
            "AvailabilityZoneId": "use1-az4",
            "MapCustomerOwnedIpOnLaunch": false,
            "OwnerId": "353695163380",
            "AssignIpv6AddressOnCreation": false,
            "Ipv6CidrBlockAssociationSet": [],
            "SubnetArn": "arn:aws:ec2:us-east-1:353695163380:subnet/subnet-05c052b94657a123e",
            "EnableDns64": false,
            "Ipv6Native": false,
            "PrivateDnsNameOptionsOnLaunch": {
                "HostnameType": "ip-name",
                "EnableResourceNameDnsARecord": false,
                "EnableResourceNameDnsAAAARecord": false
            },
            "BlockPublicAccessStates": {
                "InternetGatewayBlockMode": "off"
            },
            "SubnetId": "subnet-05c052b94657a123e",
            "State": "available",
            "VpcId": "vpc-0399fce17f59406f7",
            "CidrBlock": "172.31.16.0/20",
            "AvailableIpAddressCount": 4090,
            "AvailabilityZone": "us-east-1c",
            "DefaultForAz": true,
            "MapPublicIpOnLaunch": true
        },
        {
-- More --
```

task5_describe_instances.png

task5_describe_regions.png

ask5_describe_availability_zones.png

```
{
    "AvailabilityZones": [
        {
            "OptInStatus": "opt-in-not-required",
            "Messages": [],
            "RegionName": "us-east-1",
            "ZoneName": "us-east-1a",
            "ZoneId": "use1-az1",
            "GroupName": "us-east-1-zg-1",
            "NetworkBorderGroup": "us-east-1",
            "ZoneType": "availability-zone",
            "GroupLongName": "US East (N. Virginia) 1",
            "State": "available"
        },
        {
            "OptInStatus": "opt-in-not-required",
            "Messages": [],
            "RegionName": "us-east-1",
            "ZoneName": "us-east-1b",
            "ZoneId": "use1-az2",
            "GroupName": "us-east-1-zg-1",
            "NetworkBorderGroup": "us-east-1",
            "ZoneType": "availability-zone",
            "GroupLongName": "US East (N. Virginia) 1",
            "State": "available"
        },
        {
            "OptInStatus": "opt-in-not-required",
            "Messages": [],
-- More  --
```


task6_create_group_and_user.png


```
PS C:\Users\hp> aws iam create-group --group-name MyGroupCli
{
    "Group": {
        "Path": "/",
        "GroupName": "MyGroupCli",
        "GroupId": "AGPAVEWO74P2HAJ6V7AVV",
        "Arn": "arn:aws:iam::353695163380:group/MyGroupCli",
        "CreateDate": "2025-12-29T13:51:38+00:00"
    }
}

PS C:\Users\hp>
```



```
PS C:\Users\hp> aws iam get-group --group-name MyGroupCli
{
    "Users": [],
    "Group": {
        "Path": "/",
        "GroupName": "MyGroupCli",
        "GroupId": "AGPAVEWO74P2HAJ6V7AVV",
        "Arn": "arn:aws:iam::353695163380:group/MyGroupCli",
        "CreateDate": "2025-12-29T13:51:38+00:00"
    }
}
```


task6_create_group_and_user.png

```
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam create-user --user-name MyUserCli
{
    "User": {
        "Path": "/",
        "UserName": "MyUserCli",
        "UserId": "AIDAVEWO74P2MCMHQ2XRG",
        "Arn": "arn:aws:iam::353695163380:user/MyUserCli",
        "CreateDate": "2025-12-29T13:56:03+00:00"
    }
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam get-user --user-name MyUserCli
{
    "User": {
        "Path": "/",
        "UserName": "MyUserCli",
        "UserId": "AIDAVEWO74P2MCMHQ2XRG",
        "Arn": "arn:aws:iam::353695163380:user/MyUserCli",
        "CreateDate": "2025-12-29T13:56:03+00:00"
    }
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task6_add_user_to_group_and_verify.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam add-user-to-group --user-name MyUserCli --group-name MyGroupCli
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam get-group --group-name MyGroupCli
{
    "Users": [
        {
            "Path": "/",
            "UserName": "MyUserCli",
            "UserId": "AIDAVEWO74P2MCMHQ2XRG",
            "Arn": "arn:aws:iam::353695163380:user/MyUserCli",
            "CreateDate": "2025-12-29T13:56:03+00:00"
        }
    ],
    "Group": {
        "Path": "/",
        "GroupName": "MyGroupCli",
        "GroupId": "AGPAVEWO74P2HAJ6V7AVV",
        "Arn": "arn:aws:iam::353695163380:group/MyGroupCli",
        "CreateDate": "2025-12-29T13:51:38+00:00"
    }
}
```

task6_policy_list_and_attach.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam list-policies \
  --query "Policies[?contains(PolicyName, 'EC2')].{Name:PolicyName}" \
  --output text
AmazonEC2FullAccess
AmazonEC2ReadOnlyAccess
AmazonElasticMapReduceforEC2Role
AmazonEC2RoleforDataPipelineRole
AmazonEC2ContainerServiceforEC2Role
AmazonEC2ContainerServiceRole
AmazonEC2RoleforAWSCodeDeploy
AmazonEC2RoleforSSM
CloudWatchActionsEC2Access
AmazonEC2ContainerRegistryReadOnly
AmazonEC2ContainerRegistryPowerUser
AmazonEC2ContainerRegistryFullAccess
AmazonEC2ContainerServiceAutoscaleRole
AmazonEC2SpotFleetAutoscaleRole
AWSElasticBeanstalkCustomPlatformforEC2Role
AWSElasticBeanstalkCustomPlatformforEC2Role
AmazonEC2ContainerServiceEventsRole
AmazonEC2SpotFleetTaggingRole
AWSEC2SpotServiceRolePolicy
AWSServiceRoleForEC2ScheduledInstances
AWSEC2SpotFleetServiceRolePolicy
AWSApplicationAutoscalingEC2SpotFleetRequestPolicy
AWSEC2FleetServiceRolePolicy
AWSAutoScalingPlansEC2AutoScalingPolicy
EC2InstanceConnect
```

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam list-policies \
  --query 'Policies[?PolicyName==`AmazonEC2FullAccess`].{Name:PolicyName, ARN:Arn}' \
  --output table
-------------------------------------------------------------------------
|                           ListPolicies                                |
+-----------------------------------------------+----------------------+
|                      ARN                      |        Name          |
+-----------------------------------------------+----------------------+
|  arn:aws:iam::aws:policy/AmazonEC2FullAccess  |  AmazonEC2FullAccess |
+-----------------------------------------------+----------------------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task6_policy_list_and_attach.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam attach-group-policy \
  --group-name MyGroupCli \
  --policy-arn arn:aws:iam::aws:policy/AmazonEC2FullAccess
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam list-attached-group-policies --group-name MyGroupCli
{
    "AttachedPolicies": [
        {
            "PolicyName": "AmazonEC2FullAccess",
            "PolicyArn": "arn:aws:iam::aws:policy/AmazonEC2FullAccess"
        }
    ]
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task6_create_login_profile_and_signin.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam create-login-profile \
  --user-name MyUserCli \
  --password 'MySecurePassword123!' \
  --password-reset-required
{
    "LoginProfile": {
        "UserName": "MyUserCli",
        "CreateDate": "2025-12-29T14:11:03+00:00",
        "PasswordResetRequired": true
    }
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

```
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam attach-group-policy \
  --group-name MyGroupCli \
  --policy-arn arn:aws:iam::aws:policy/IAMUserChangePassword
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam detach-group-policy \
  --group-name MyGroupCli \
  --policy-arn arn:aws:iam::aws:policy/IAMUserChangePassword
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task6_create_access_key_output.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam create-access-key --user-name MyUserCli
{
    "AccessKey": {
        "UserName": "MyUserCli",
        "AccessKeyId": "AKIAVEWO74P2GCX4JH4K",
        "Status": "Active",
        "SecretAccessKey": "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",
        "CreateDate": "2025-12-29T14:12:31+00:00"
    }
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam list-access-keys --user-name MyUserCli
{
    "AccessKeyMetadata": [
        {
            "UserName": "MyUserCli",
            "AccessKeyId": "AKIAVEWO74P2GCX4JH4K",
            "Status": "Active",
            "CreateDate": "2025-12-29T14:12:31+00:00"
        }
    ]
}
```

task6_env_exports_and_get_user_error.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ export AWS_ACCESS_KEY_ID=AKIAVEWO74P2GCX4JH4K
export AWS_SECRET_ACCESS_KEY=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
printenv | grep AWS_
AWS_SECRET_ACCESS_KEY=qzfHw/qrdQ+qbbIo9qjC79MhsPYg50rKrMDDrmlB
AWS_ACCESS_KEY_ID=AKIAVEWO74P2GCX4JH4K
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task6_after_logout_and_get_user_success.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam get-user --user-name MyUserCli
{
    "User": {
        "Path": "/",
        "UserName": "MyUserCli",
        "UserId": "AIDAVEWO74P2MCMHQ2XRG",
        "Arn": "arn:aws:iam::353695163380:user/MyUserCli",
        "CreateDate": "2025-12-29T13:56:03+00:00"
    }
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task7_filter_by_tag_public_ip.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-instances \
  --filters "Name=tag:Name,Values=MyServer" \
  --query "Reservations[*].Instances[*].PublicIpAddress" \
  --output text
13.218.231.190
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task7_filter_by_instance_type.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-instances \
  --filters "Name=instance-type,Values=t3.micro" \
  --query "Reservations[].Instances[].InstanceId" \
  --output table
------------------------
|   DescribeInstances   |
+-----------------------+
|  i-0a06c9c646989cdf7  |
+-----------------------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task7_filter_by_subnet.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-instances \
  --filters "Name=vpc-id,Values=vpc-0399fce17f59406f7" \
  --query "Reservations[*].Instances[*].InstanceId" \
  --output table
------------------------
|   DescribeInstances   |
+-----------------------+
|  i-0a06c9c646989cdf7  |
+-----------------------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task7_filter_by_vpc.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-instances \
  --filters "Name=vpc-id,Values=vpc-0399fce17f59406f7" \
  --query "Reservations[*].Instances[*].InstanceId" \
  --output table
------------------------
|   DescribeInstances   |
+-----------------------+
|  i-0a06c9c646989cdf7  |
+-----------------------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

Task 8: Query Outputs for Reporting

task8_query_table_instances_name_ip.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-instances \
  --filters "Name=tag:Name,Values=MyServer" \
  --query "Reservations[*].Instances[*].[InstanceId,PublicIpAddress,Tags[?Key=='Name'].Value|[0]]" \
  --output table
-------------------------------------------------------
|                DescribeInstances                    |
+---------------------+-----------------+-----------+
|  i-0a06c9c646989cdf7 |  13.218.231.190  |  MyServer |
+---------------------+-----------------+-----------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task8_query_table_instance_state.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-instances \
  --query "Reservations[*].Instances[*].[InstanceId,State.Name]" \
  --output table
-----------------------------------
|         DescribeInstances       |
+----------------------+----------+
|  i-0a06c9c646989cdf7 |  running |
+----------------------+----------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

task8_query_table_instance_type_az.png

```
-----------------------------------------------------
|                DescribeInstances                  |
+----------------------+-----------+---------------+
|  i-0a06c9c646989cdf7 |  t3.micro |  us-east-1c   |
+----------------------+-----------+---------------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

Cleanup: Remove All Resources

cleanup_terminate_instance.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 terminate-instances --instance-ids i-0a06c9c646989cdf7
{
    "TerminatingInstances": [
        {
            "InstanceId": "i-0a06c9c646989cdf7",
            "CurrentState": {
                "Code": 32,
                "Name": "shutting-down"
            },
            "PreviousState": {
                "Code": 16,
                "Name": "running"
            }
        }
    ]
}
```

cleanup_delete_volumes_snapshots.png

```
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-volumes --query "Volumes[*].[VolumeId,Sta
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-volumes --query "Volumes[*].[VolumeId,Sta
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-volumes --query "Volumes[*].[VolumeId,Sta
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

cleanup_delete_security_group_and_keypair.png

```
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-volumes --query "Volum
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-volumes --query "Volum
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-volumes --query "Volum
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 delete-security-group --group-i
{
    "Return": true,
    "GroupId": "sg-01fd8e6e7dc115fb6"
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 delete-key-pair --key-name MyED
{
    "Return": true,
    "KeyPairId": "key-09f44f47900193352"
}
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ rm MyED25519Key.pem
rm: remove write-protected regular file 'MyED25519Key.pem'? Y
@arshiajadoon ➜ /workspaces/LAB_9 (main) $ rm MyED25519Key.pem
rm: cannot remove 'MyED25519Key.pem': No such file or directory
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```

cleanup_iam_users_deleted.png

```
  "AccessKeyMetadata": [
      {
          "UserName": "MyUserCli",
          "AccessKeyId": "AKIAVEWO74P2GCX4JH4K",
          "Status": "Active",
          "CreateDate": "2025-12-29T14:12:31+00:00"
      }
  ]

rshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam delete-access-key --user-name MyUserCli --access-key-id
X4JH4K
rshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam delete-login-profile --user-name MyUserCli

n error occurred (NoSuchEntity) when calling the DeleteLoginProfile operation: Login Profile for User MyUs
e found.
rshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam remove-user-from-group --user-name MyUserCli --group-nam
rshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam delete-user --user-name MyUserCli
rshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam detach-group-policy --group-name MyGroupCli --policy-arn
aws:policy/AmazonEC2FullAccess

n error occurred (NoSuchEntity) when calling the DetachGroupPolicy operation: Policy arn:aws:iam::aws:poli
llAccess was not found.
rshiajadoon ➜ /workspaces/LAB_9 (main) $ aws iam delete-group --group-name MyGroupCli
rshiajadoon ➜ /workspaces/LAB_9 (main) $ aws ec2 describe-instances --query "Reservations[*].Instances[*]
tate.Name]" --output table
```

cleanup_summary.png#

```
State.Name]" --output table
-------------------------------------
|          DescribeInstances          |
+----------------------+--------------+
|  i-0a06c9c646989cdf7 |  terminated  |
+----------------------+--------------+
@arshiajadoon ➜ /workspaces/LAB_9 (main) $
```