**Aws Account With Shell Scripting**

**Day 4**

Shell Scripting with AWS

Prerequisites

AWS CLI Installation: Ensure AWS CLI is installed. You can install it using the following command:

curl "https://awscli.amazonaws.com/AWSCLIV2.pkg" -o "AWSCLIV2.pkg"

sudo installer -pkg AWSCLIV2.pkg -target /

**AWS CLI Configuration: Configure AWS CLI with your credentials.**

aws configure

AWS Configuration Using Shell Scripting

Configuring AWS CLI

Create a shell script to automate AWS CLI configuration.

#!/bin/bash

# Variables

AWS\_ACCESS\_KEY\_ID="your\_access\_key\_id"

AWS\_SECRET\_ACCESS\_KEY="your\_secret\_access\_key"

AWS\_DEFAULT\_REGION="your\_default\_region"

# Configure AWS CLI

aws configure set aws\_access\_key\_id $AWS\_ACCESS\_KEY\_ID

aws configure set aws\_secret\_access\_key $AWS\_SECRET\_ACCESS\_KEY

aws configure set region $AWS\_DEFAULT\_REGION

echo "AWS CLI configured successfully."

EC2 Instance Creation Using Shell Scripting

**Create Aws Ec2 instance With Shell Scripting**

#!/bin/bash

# Variables

AMI\_ID="ami-0abcdef1234567890" # Replace with your AMI ID

INSTANCE\_TYPE="t2.micro" # Instance type

KEY\_NAME="your\_key\_pair\_name" # Key pair name

SECURITY\_GROUP="your\_security\_group" # Security group name or ID

# Create EC2 instance

INSTANCE\_ID=$(aws ec2 run-instances \

--image-id $AMI\_ID \

--instance-type $INSTANCE\_TYPE \

--key-name $KEY\_NAME \

--security-groups $SECURITY\_GROUP \

--query 'Instances[0].InstanceId' \

--output text)

echo "EC2 instance created with Instance ID: $INSTANCE\_ID"

Checking Instance Status Using Shell Scripting

Script to Check EC2 Instance Status

sh

Copy code

#!/bin/bash

# Variable

INSTANCE\_ID="your\_instance\_id" # Replace with your instance ID

# Check instance status

INSTANCE\_STATUS=$(aws ec2 describe-instances \

--instance-ids $INSTANCE\_ID \

--query 'Reservations[0].Instances[0].State.Name' \

--output text)

echo "The status of the instance $INSTANCE\_ID is: $INSTANCE\_STATUS"

Combining All Scripts

**Here’s how you can combine all the above steps into a single script for ease of use:**

**Sh**

#!/bin/bash

# AWS Configuration Variables

AWS\_ACCESS\_KEY\_ID="your\_access\_key\_id"

AWS\_SECRET\_ACCESS\_KEY="your\_secret\_access\_key"

AWS\_DEFAULT\_REGION="your\_default\_region"

# EC2 Instance Variables

AMI\_ID="ami-0abcdef1234567890" # Replace with your AMI ID

INSTANCE\_TYPE="t2.micro" # Instance type

KEY\_NAME="your\_key\_pair\_name" # Key pair name

SECURITY\_GROUP="your\_security\_group" # Security group name or ID

# Function to configure AWS CLIconfigure\_aws() {

aws configure set aws\_access\_key\_id $AWS\_ACCESS\_KEY\_ID

aws configure set aws\_secret\_access\_key $AWS\_SECRET\_ACCESS\_KEY

aws configure set region $AWS\_DEFAULT\_REGION

echo "AWS CLI configured successfully."

}

# Function to create an EC2 instancecreate\_instance() {

INSTANCE\_ID=$(aws ec2 run-instances \

--image-id $AMI\_ID \

--instance-type $INSTANCE\_TYPE \

--key-name $KEY\_NAME \

--security-groups $SECURITY\_GROUP \

--query 'Instances[0].InstanceId' \

--output text)

echo "EC2 instance created with Instance ID: $INSTANCE\_ID"

}

# Function to check instance statuscheck\_instance\_status() {

INSTANCE\_STATUS=$(aws ec2 describe-instances \

--instance-ids $INSTANCE\_ID \

--query 'Reservations[0].Instances[0].State.Name' \

--output text)

echo "The status of the instance $INSTANCE\_ID is: $INSTANCE\_STATUS"

}

# Main script execution

configure\_aws

create\_instance

check\_instance\_status

Saving the Notes to a .doc File

Open a Word Processor: Open Microsoft Word or LibreOffice Writer.

Create a New Document: Start with a blank document.

Copy and Paste: Copy the content above and paste it into the document.

Format as Needed: Adjust the formatting, add headings, and organize the content.

Save the Document: Save the document with a .doc extension.

Additional Tips

Access Keys: Store your AWS access keys securely and avoid hardcoding them in scripts.

IAM Roles: Use IAM roles for better security practices.

Testing: Always test your scripts in a safe environment before using them in production