

Dynamically we can pass arguments in real-time

- Instead of creating a separate file for Variables pass variables dynamically to a script at runtime via command-line arguments.
- Instead of hardcoding values in the script or sourcing a file, the script accepts values from the user when it's run.

Execution:

```
./realtime.sh "MyVPC" "10.0.0.0/16" "10.0.1.0/24" "us-east-1"
```

realtime.sh

```
#!/bin/bash
```

```
# Check if the required number of arguments are passed
```

```
if [ "$#" -ne 4 ]; then
```

```
    echo "Usage: $0 <VPC_NAME> <VPC_CIDR> <SUBNET_CIDR> <REGION>"
```

```
    exit 1
```

```
fi
```

```
# Assign command-line arguments to variables
```

```
VPC_NAME=$1
```

```
VPC_CIDR=$2
```

```
SUBNET_CIDR=$3
```

```
REGION=$4
```

```
# Use the variables in your AWS CLI commands
```

```
echo "Creating VPC: $VPC_NAME with CIDR Block: $VPC_CIDR"
```

```
VPC_ID=$(aws ec2 create-vpc --cidr-block $VPC_CIDR --region $REGION --query 'Vpc.VpcId' --output text)
```

```
echo "VPC created with ID: $VPC_ID"
```

```
# Tag the VPC with a name
```

```
aws ec2 create-tags --resources $VPC_ID --tags Key=Name,Value=$VPC_NAME
```

```
echo "Creating Subnet with CIDR Block: $SUBNET_CIDR"
```

```
SUBNET_ID=$(aws ec2 create-subnet --vpc-id $VPC_ID --cidr-block $SUBNET_CIDR --region $REGION --query 'Subnet.SubnetId' --output text)
```

```
echo "Subnet created with ID: $SUBNET_ID"
```

```
# Tag the Subnet with a name
```

```
aws ec2 create-tags --resources $SUBNET_ID --tags Key=Name,Value="{VPC_NAME}-subnet"
```

```
echo "VPC and Subnet creation completed."
```