

# loop

## for loop

```
for i in var1 var2 var3; do echo $i; done
for ((i=1;i<=10;i++)); do echo $i; done
for i in $(ls *.log); do echo $i; done
```

```
for t in {1..10};do echo $t; done
```

```
1
2
3
4
5
6
7
8
9
10
```

```
for t in {1..10..2};do echo $t; done
```

```
1
3
5
7
9
```

```
## [|||||]
```

```
for dir in */;do echo "${dir%/}"; done
```

```
## Infinite Loop
```

```
for (( ; ; ))
```

```
do
```

```
    echo "infinite loops [ hit CTRL+C to stop]"
```

```
done
```

# while loop

```
## #####
```

```
cat tables_name.lst | while read sch tab;do
```

```
> echo "export to $tab.ixf of ixf messages export_$tab.msg select * from $sch.$tab"
```

```
> done
```

```
## while loop ###
```

```
## 3 ### /worktmp #####
```

```
while true;do
```

```
> df -h | grep /worktmp
```

```
> sleep 3
```

```
> done
```

```
## ## DB2 ##
```

```
while read s t;do
```

```
> db2 "select count(*) from $s.$t"
```

```
> done < tables.lst > count-tables.out
```

```
## ## CSV
```

```
while IFS=, read s t;do
```

```
> db2 "select count(*) from $s.$t"
```

```
> done < tables.csv > count-tables.out
```

```
## #### Loop Counter
```

```
x=1
```

```
while [ $x -le 5 ]
```

```
do
```

```
    echo "Welcome $x times"
```

```
    x=$(( $x + 1 )) ## x=$(( $x + 1 ))
```

```
done
```

```
## #####
```

```
## <(sort -r lost.txt) #####
```

```
while IFS='.' read -r a b c d e;do
```

```
> echo "$a";
```

```
> done < <(sort -r lost.txt)
```

```
## ###
```

```
filename=$1
```

```
while read line; do
# reading each line
echo $line
done < $filename

## Reading file by omitting backslash escape
while read -r line; do
# Reading each line
echo $line
done < company2.txt
```

## until loop

```
until [[ $a -eq 1 ]]
do
    echo "Value of a is $a"
    let a--
done
```

## Infinite loop ????

```
# while
while true
do
    echo "Hi"
    sleep 2s #will run every 2 sec
done

# for
for (( ;; ))
do
    echo "Hi buddy"
    sleep 2s

done
```

## break and continue

```
count=0
until false
```

```
do
    ((count++))
    if [[ $count -eq 5 ]]
    then
        continue
    elif [[ $count -ge 10 ]]
    then
        break
    fi
    echo "Counter = $count"
done
```

```
Counter = 1
Counter = 2
Counter = 3
Counter = 4
Counter = 6
Counter = 7
Counter = 8
Counter = 9
```

## For loop with array elements

```
DB_AWS_ZONE=('us-east-2a' 'us-west-1a' 'eu-central-1a')

for zone in "${DB_AWS_ZONE[@]}"
do
    echo "Creating rds (DB) server in $zone, please wait ..."
    aws rds create-db-instance \
        --availability-zone "$zone" \
        --allocated-storage 20 --db-instance-class db.m1.small \
        --db-instance-identifier test-instance \
        --engine mariadb \
        --master-username my_user_name \
        --master-user-password my_password_here
done
```

## Loop with a shell variable

```
_admin_ip="202.54.1.33|MUM_VPN_GATEWAY 23.1.2.3|DEL_VPN_GATEWAY 13.1.2.3|SG_VPN_GATEWAY"  
for e in $_admin_ip  
do  
    ufw allow from "${e%%|*}" to any port 22 proto tcp comment 'Open SSH port for ${e##*|}'  
done
```

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