

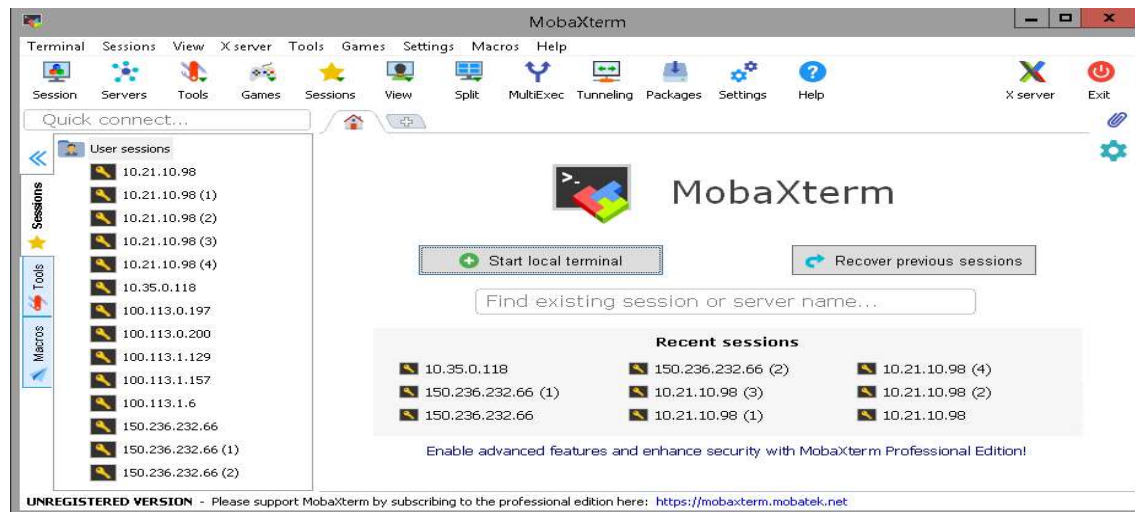
# Generate Bulk IVT Scripts for Remote Execution

This script will help to create scripts which will execute pre and post validation scripts from the windows jump/common server without login to each target server.

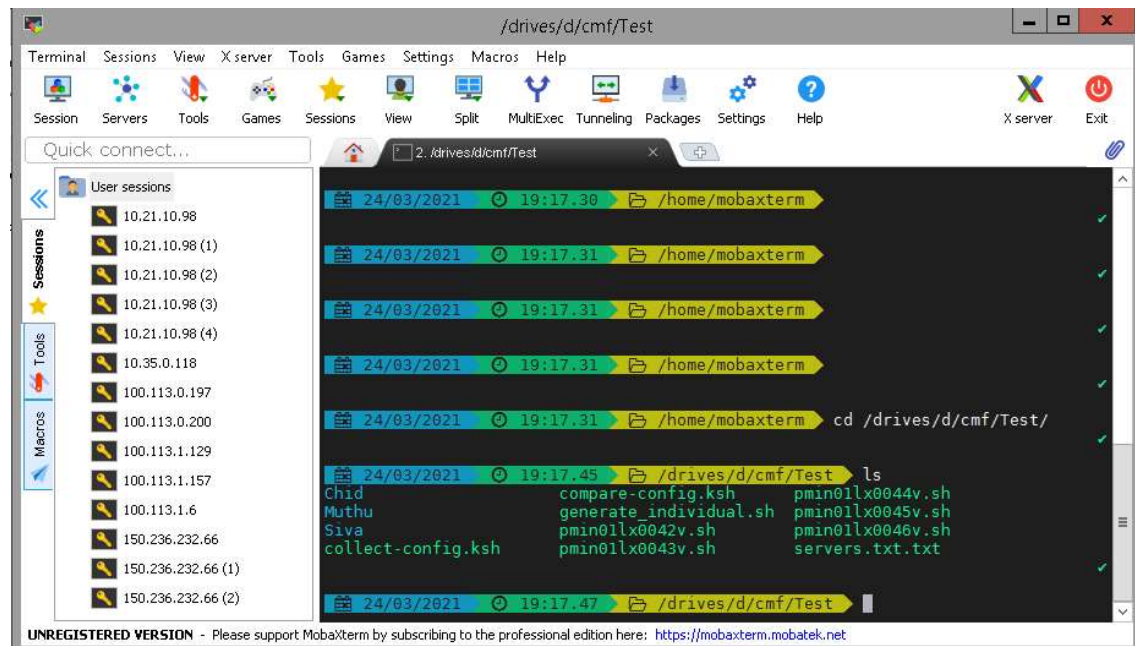
## Pre-requisite:

MobaXterm Software (MobaXterm Home Edition) – Download the Portable Edition from the below mentioned link and run it. This software will help to run Linux commands from the Windows servers.

<https://mobaxterm.mobatek.net/download-home-edition.html>



Run the software and select 'Start local terminal' and redirect to the respective directory



Sample output for your reference below.

Copy the respective files into the respective location as mentioned below.

```
24/03/2021 19:21:13 /drives/d/cmf/Test ll
total 17
-rwxr-x-- 1 Administ UsersGrp 15867 Dec 3 09:29 collect-config.ksh
-rwxr-x-- 1 Administ UsersGrp 9967 Dec 3 09:29 compare-config.ksh
-rwxr-x-- 1 Administ UsersGrp 1424 Sep 24 18:43 generate_individual.sh
-rwxr-x-- 1 Administ UsersGrp 371 Mar 24 19:19 servers.txt

24/03/2021 19:21:16 /drives/d/cmf/Test cat servers.txt
pmin01lx0042v 192.168.104.130 Muthu $LOGIN_PASSWORD $LOGIN_NAME 'hostname'
pmin01lx0043v 192.168.104.131 Muthu $LOGIN_PASSWORD $LOGIN_NAME 'hostname'
pmin01lx0044v 192.168.104.132 Siva $LOGIN_PASSWORD $LOGIN_NAME 'hostname'
pmin01lx0045v 192.168.104.133 Siva $LOGIN_PASSWORD $LOGIN_NAME 'hostname'
pmin01lx0046v 192.168.104.138 Raj $LOGIN_PASSWORD $LOGIN_NAME 'hostname'

24/03/2021 19:21:21 /drives/d/cmf/Test cat generate_individual.sh
#!/bin/bash
for i in `cat servers.txt |awk '{print $2}'`
do
SERVER=`grep -w $i servers.txt |awk '{print $1}'`
LOGIN_NAME=`grep -w $i servers.txt |awk '{print $5}'`
LOGIN_PASSWORD=`grep -w $i servers.txt |awk '{print $4}'`
HOSTNAME=`grep -w $i servers.txt |awk '{print $6}'`
DIR_NAME=`grep -w $i servers.txt |awk '{print $3}'`
echo "echo 'Enter Login Name: ' >> $SERVER.sh
echo "read LOGIN_NAME" >> $SERVER.sh
echo "stty -echo" >> $SERVER.sh
echo "echo 'Enter LOGIN_NAME password: ' >> $SERVER.sh
echo "read LOGIN_PASSWORD" >> $SERVER.sh
echo "stty echo" >> $SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD scp collect-config.ksh compare-config.ksh $LOGIN_NAME@$i:/home/$LOGIN_NAME" >> $SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@$i 'sudo -S ./collect-config.ksh post'" >> $SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@$i 'sudo -S ./compare-config.ksh /cmf-bkp/*PRE* /cmf-bkp/*POST*" >> $SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@$i 'sudo tar -cvf $HOSTNAME.tar /cmf-bkp/'" >> $SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD scp $LOGIN_NAME@$i:/home/$LOGIN_NAME/*.tar ." >> $SERVER.sh
echo "mkdir -p $SERVER" >> $SERVER.sh
echo "tar -xvf $SERVER*.tar -C $SERVER" >> $SERVER.sh
#echo "zip -rq $SERVER ." >> $SERVER.sh
if [[ $DIR_NAME == $DIR_NAME ]]
then
mkdir -p $DIR_NAME
cp -r $SERVER.sh $DIR_NAME
cp -r servers.txt collect-config.ksh compare-config.ksh $DIR_NAME
fi
done
```

Execution of Individual script as below

```
24/03/2021 19:22:05 /drives/d/cmf/Test sh -x generate_individual.sh
++ cat servers.txt
++ awk '{print $2}'
+ for i in `cat servers.txt |awk '{print $2}'`
++ grep -w 192.168.104.130 servers.txt
++ awk '{print $1}'
+ SERVER=pmin01lx0042v
++ grep -w 192.168.104.130 servers.txt
++ awk '{print $5}'
+ LOGIN_NAME=Muthu
++ grep -w 192.168.104.130 servers.txt
++ awk '{print $4}'
+ LOGIN_PASSWORD=$LOGIN_PASSWORD
++ grep -w 192.168.104.130 servers.txt
++ awk '{print $6}'
+ HOSTNAME='hostname'
++ grep -w 192.168.104.130 servers.txt
++ awk '{print $3}'
+ DIR_NAME=Muthu
+ echo 'echo '\Enter Login Name: \''
+ echo 'read LOGIN_NAME'
+ echo 'stty -echo'
+ echo 'echo '\Enter LOGIN_NAME password: \''
+ echo 'read LOGIN_PASSWORD'
+ echo 'stty echo'
+ echo 'sshpass -p $LOGIN_PASSWORD scp collect-config.ksh compare-config.ksh $LOGIN_NAME@192.168.104.130:/home/$LOGIN_NAME'
+ echo 'sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@192.168.104.130 '\sudo -S ./collect-config.ksh post\'
+ echo 'sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@192.168.104.130 '\sudo -S ./compare-config.ksh /cmf-bkp/*PRE* /cmf-bkp/*POST*\''
+ echo 'sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@192.168.104.130 '\sudo tar -cvf 'hostname'.tar /cmf-bkp/\''
+ echo 'sshpass -p $LOGIN_PASSWORD scp $LOGIN_NAME@192.168.104.130:/home/$LOGIN_NAME/*.tar .'
+ echo 'mkdir -p pmin01lx0042v'
+ echo 'tar -xvf pmin01lx0042v*.tar -C pmin01lx0042v'
+ [[ Muthu == Muthu ]]
+ mkdir -p Muthu
+ cp -r pmin01lx0042v.sh Muthu
+ cp -r servers.txt collect-config.ksh compare-config.ksh Muthu
```

**Important Note:** This software is case sensitive like Linux.

## Execution Steps

### #cat servers.txt

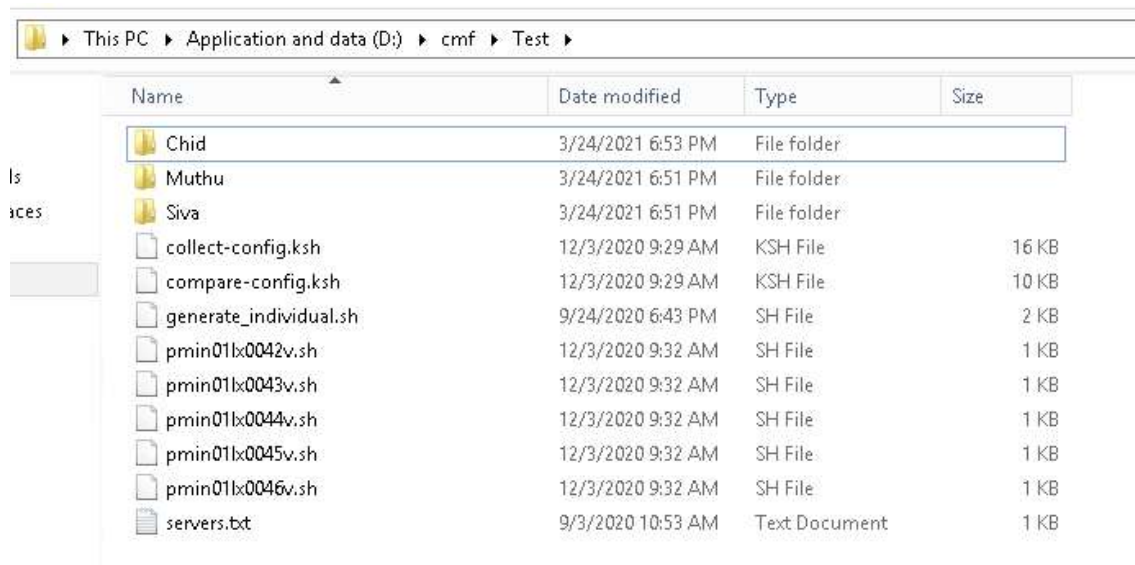
pmin01lx0042v	192.168.104.130	Muthu	\$LOGIN_PASSWORD	\$LOGIN_NAME `hostname`
pmin01lx0043v	192.168.104.131	Muthu	\$LOGIN_PASSWORD	\$LOGIN_NAME `hostname`
pmin01lx0044v	192.168.104.132	Siva	\$LOGIN_PASSWORD	\$LOGIN_NAME `hostname`
pmin01lx0045v	192.168.104.133	Siva	\$LOGIN_PASSWORD	\$LOGIN_NAME `hostname`
pmin01lx0046v	192.168.104.138	Chid	\$LOGIN_PASSWORD	\$LOGIN_NAME `hostname`

### #cat generate-individual-script.sh

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

```
# This script will generate individual server IVT script
# Create by Muthukumaran Kannan 24/Mar/2021
# Make sure the servers.txt file created in same directory
for i in `cat servers.txt | awk '{print $2}'`
do
SERVER=`grep -w $i servers.txt | awk '{print $1}'`
LOGIN_NAME=`grep -w $i servers.txt | awk '{print $5}'`
LOGIN_PASSWORD=`grep -w $i servers.txt | awk '{print $4}'`
HOSTNAME=`grep -w $i servers.txt | awk '{print $6}'`
DIR_NAME=`grep -w $i servers.txt | awk '{print $3}'`
echo "echo 'Enter Login Name: '" >> $SERVER.sh
echo "read LOGIN_NAME" >> $SERVER.sh
echo "stty -echo" >> $SERVER.sh
echo "echo 'Enter LOGIN_NAME password: '" >> $SERVER.sh
echo "read LOGIN_PASSWORD" >> $SERVER.sh
echo "stty echo" >> $SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD scp collect-config.ksh compare-config.ksh
$LOGIN_NAME@$i:~/ " >> $SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@$i 'sudo -S ./collect-config.ksh post'" >>
$SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@$i 'sudo -S ./compare-config.ksh /cmf-
bkp/*PRE* /cmf-bkp/*POST*" >> $SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@$i 'sudo tar -cvf $HOSTNAME.tar /cmf-
bkp/" >> $SERVER.sh
echo "sshpass -p $LOGIN_PASSWORD scp $LOGIN_NAME@$i:~/*.tar ." >> $SERVER.sh
echo "mkdir -p $SERVER" >> $SERVER.sh
echo "tar -xvf $SERVER*.tar -C $SERVER" >> $SERVER.sh
#echo "zip -rq $SERVER ." >> $SERVER.sh
if [[ $DIR_NAME == $DIR_NAME ]]
then
mkdir -p $DIR_NAME
cp -r $SERVER.sh $DIR_NAME
cp -r servers.txt collect-config.ksh compare-config.ksh $DIR_NAME
fi
done
```

The below mentioned files/folders structure would be created after execution of individual script.



Name	Date modified	Type	Size
Chid	3/24/2021 6:53 PM	File folder	
Muthu	3/24/2021 6:51 PM	File folder	
Siva	3/24/2021 6:51 PM	File folder	
collect-config.ksh	12/3/2020 9:29 AM	KSH File	16 KB
compare-config.ksh	12/3/2020 9:29 AM	KSH File	10 KB
generate_individual.sh	9/24/2020 6:43 PM	SH File	2 KB
pmin01lx0042v.sh	12/3/2020 9:32 AM	SH File	1 KB
pmin01lx0043v.sh	12/3/2020 9:32 AM	SH File	1 KB
pmin01lx0044v.sh	12/3/2020 9:32 AM	SH File	1 KB
pmin01lx0045v.sh	12/3/2020 9:32 AM	SH File	1 KB
pmin01lx0046v.sh	12/3/2020 9:32 AM	SH File	1 KB
servers.txt	9/3/2020 10:53 AM	Text Document	1 KB

```

24/03/2021 19:23.28 /drives/d/cmf/Test ls -ltr
total 19
-rwxr-x--- 1 Administ UsersGrp 1424 Sep 24 18:43 generate_individual.sh
-rwxr-x--- 1 Administ UsersGrp 9967 Dec 3 09:29 compare-config.ksh
-rwxr-x--- 1 Administ UsersGrp 15867 Dec 3 09:29 collect-config.ksh
-rwxr-x--- 1 Administ UsersGrp 371 Mar 24 19:19 servers.txt
-rw-r--r-- 1 AGITPKQB UsersGrp 711 Mar 24 19:22 pmin01lx0043v.sh
-rw-r--r-- 1 AGITPKQB UsersGrp 711 Mar 24 19:22 pmin01lx0042v.sh
-rw-r--r-- 1 AGITPKQB UsersGrp 711 Mar 24 19:22 pmin01lx0044v.sh
drwxrwxr-x 1 AGITPKQB UsersGrp 0 Mar 24 19:22 Muthu
-rw-r--r-- 1 AGITPKQB UsersGrp 711 Mar 24 19:22 pmin01lx0045v.sh
drwxrwxr-x 1 AGITPKQB UsersGrp 0 Mar 24 19:22 Siva
-rw-r--r-- 1 AGITPKQB UsersGrp 711 Mar 24 19:22 pmin01lx0046v.sh
drwxrwxr-x 1 AGITPKQB UsersGrp 0 Mar 24 19:22 Raj
24/03/2021 19:23.33 /drives/d/cmf/Test

```

The sample single server IVT Pre/Post script displayed below.

**#cat pmin01lx0042v.sh**

```

echo 'Enter Login Name: '
read LOGIN_NAME
stty -echo
echo 'Enter LOGIN_NAME password: '
read LOGIN_PASSWORD
stty echo
sshpass -p $LOGIN_PASSWORD scp collect-config.ksh compare-config.ksh
$LOGIN_NAME@192.168.104.130:/home/$LOGIN_NAME
sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@192.168.104.130 'sudo -S ./collect-config.ksh
post'
sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@192.168.104.130 'sudo -S ./compare-
config.ksh /cmf-bkp/*PRE* /cmf-bkp/*POST*'

```

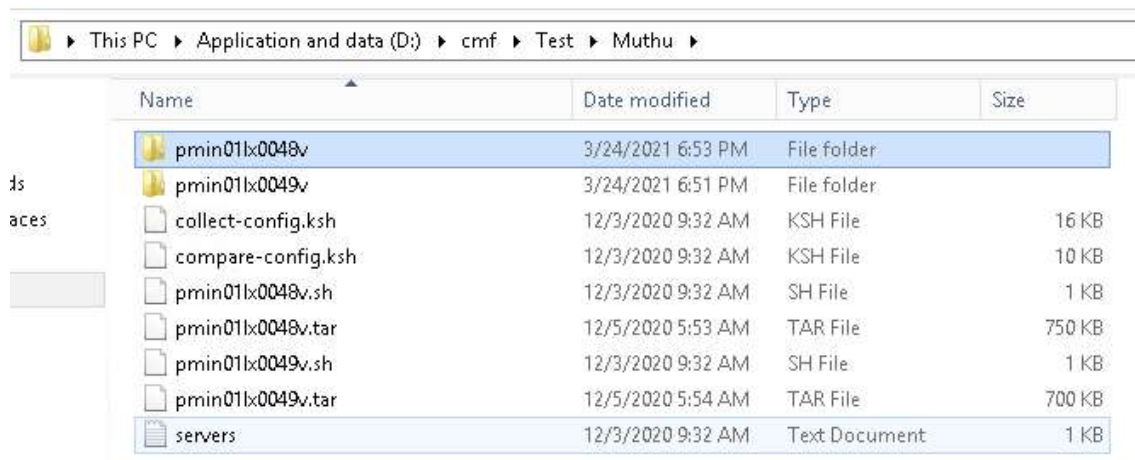
```
sshpass -p $LOGIN_PASSWORD ssh -t $LOGIN_NAME@192.168.104.130 'sudo tar -cvf
`hostname`.tar /cmf-bkp/'
sshpass -p $LOGIN_PASSWORD scp $LOGIN_NAME@192.168.104.130:/home/$LOGIN_NAME/*.tar .
mkdir -p pmin01lx0042v
tar -xvf pmin01lx0042v*.tar -C pmin01lx0042v
```

#### Note:

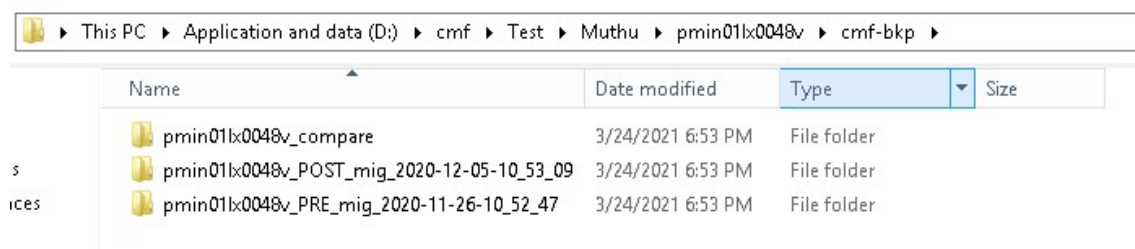
It would prompt you for the username and password to perform below listed tasks.

- Pre IVT (if required)
- Post IVT
- Compare PRE & POST IVT
- Tar the artifacts which are created in the respective servers
- Copy them to the jump server
- Untar the copied files/folders which are copied from target server.
- Create folder in the respective server name
- Copy all untarred files/folders into the respective created folder.

#### The Sample screenshots are below for your reference



Name	Date modified	Type	Size
pmin01lx0048v	3/24/2021 6:53 PM	File folder	
pmin01lx0049v	3/24/2021 6:51 PM	File folder	
collect-config.ksh	12/3/2020 9:32 AM	KSH File	16 KB
compare-config.ksh	12/3/2020 9:32 AM	KSH File	10 KB
pmin01lx0048v.sh	12/3/2020 9:32 AM	SH File	1 KB
pmin01lx0048v.tar	12/5/2020 5:53 AM	TAR File	750 KB
pmin01lx0049v.sh	12/3/2020 9:32 AM	SH File	1 KB
pmin01lx0049v.tar	12/5/2020 5:54 AM	TAR File	700 KB
servers	12/3/2020 9:32 AM	Text Document	1 KB



Name	Date modified	Type	Size
pmin01lx0048v_compare	3/24/2021 6:53 PM	File folder	
pmin01lx0048v_POST_mig_2020-12-05-10_53_09	3/24/2021 6:53 PM	File folder	
pmin01lx0048v_PRE_mig_2020-11-26-10_52_47	3/24/2021 6:53 PM	File folder	