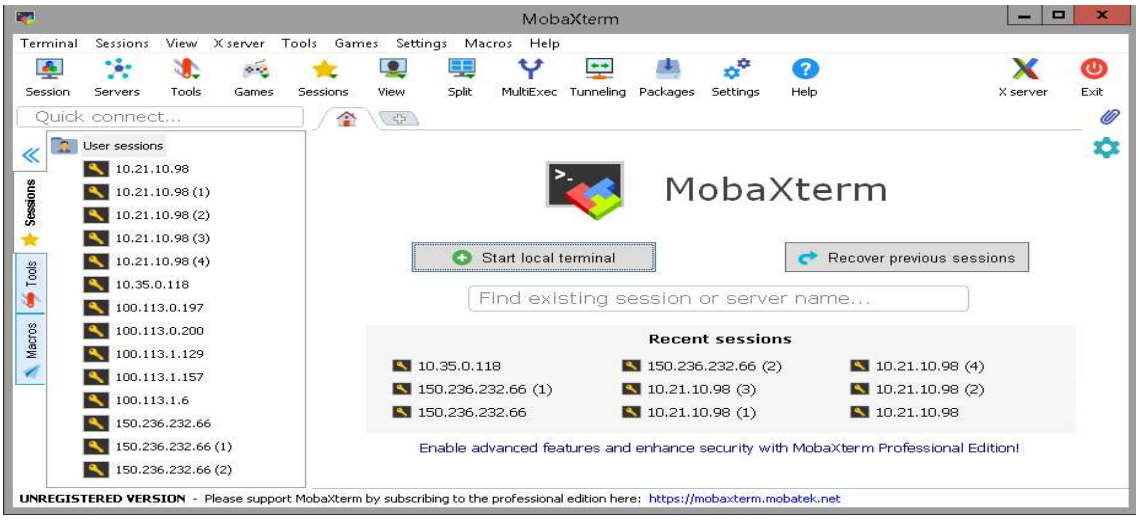
Generate Bulk IVT Scripts for Remote Execution

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.

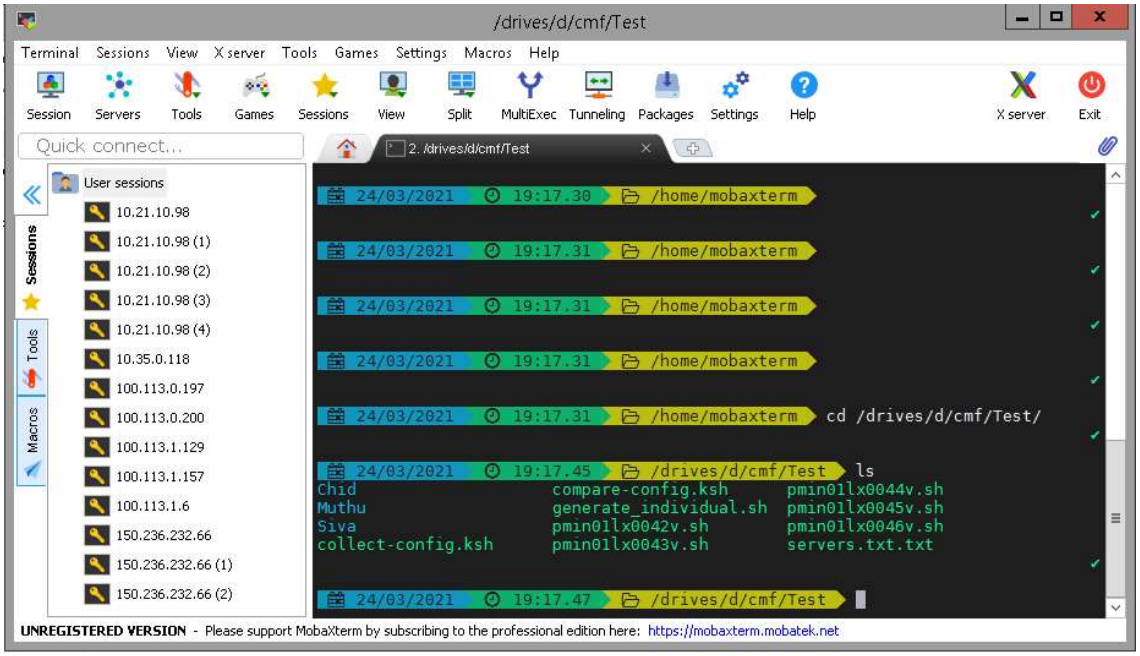
Pre-requisite:

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

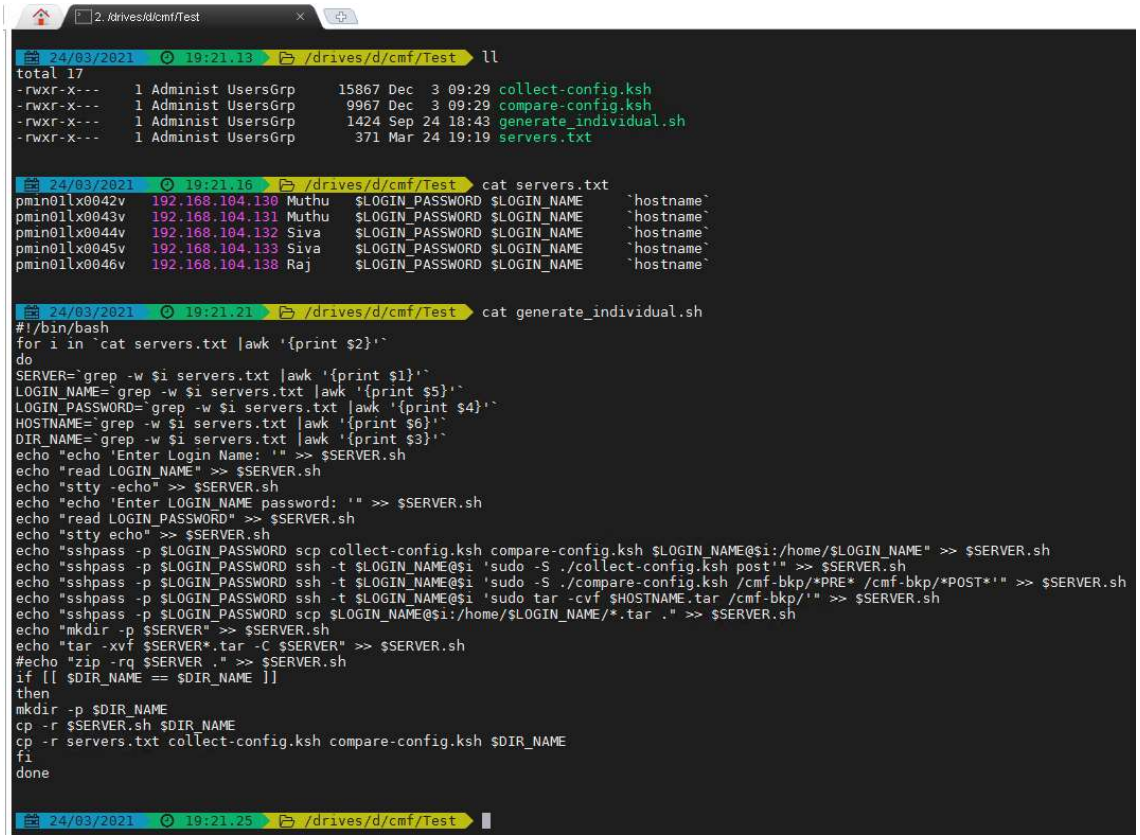


Run the software and select 'Start local terminal' and redirect to the respective directory



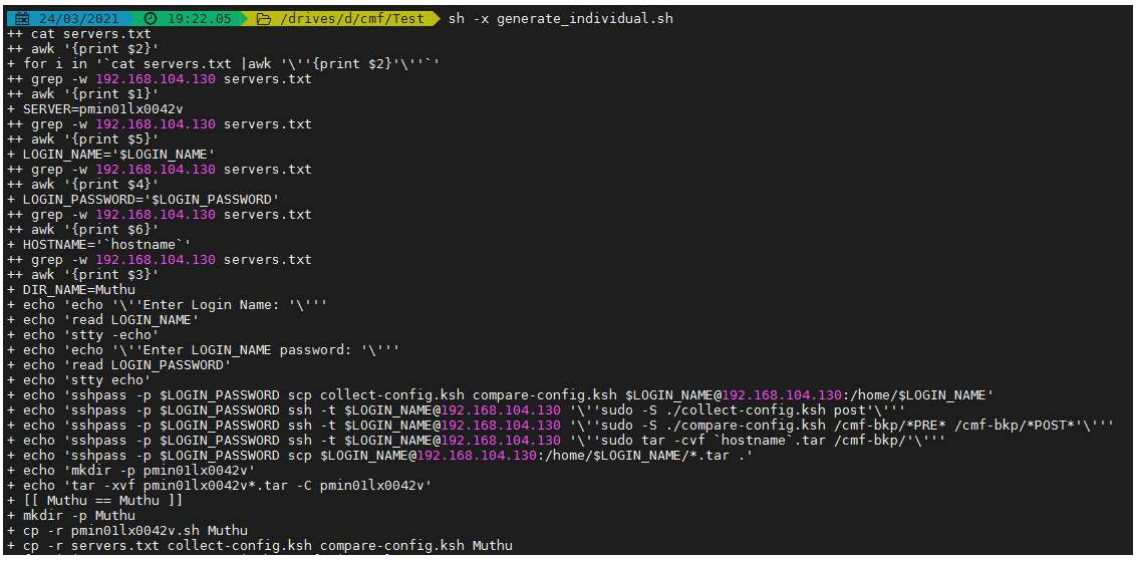
Sample output for your reference below.

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



```
2. /drives/d/cmf/Test

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


24/03/2021  19:21.25  /drives/d/cmf/Test
```

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 $5}'
+ LOGIN_NAME='$LOGIN_NAME'
++ 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

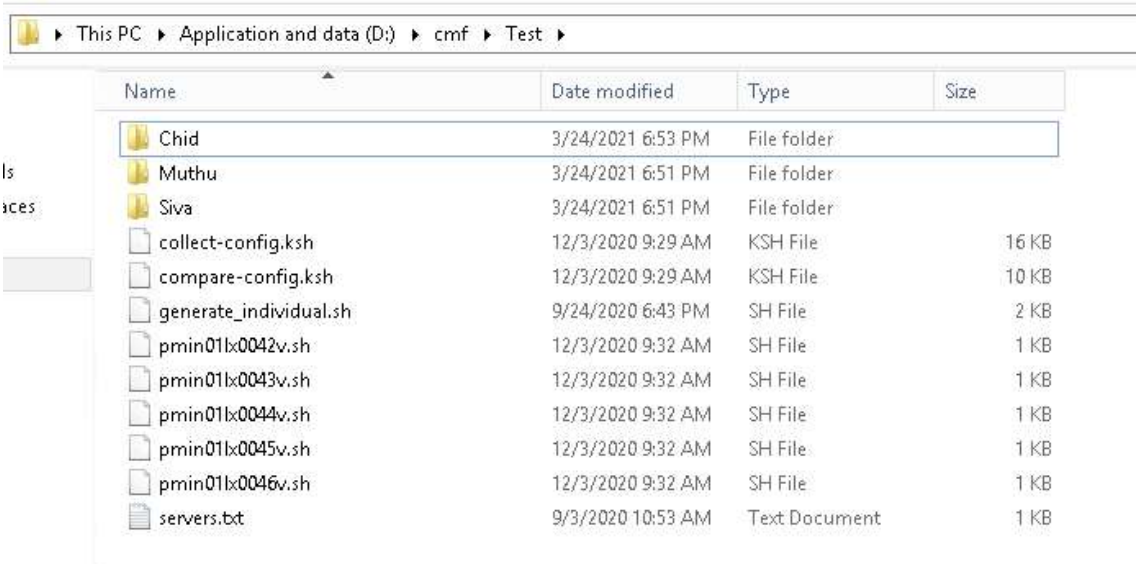
#cat servers.txt

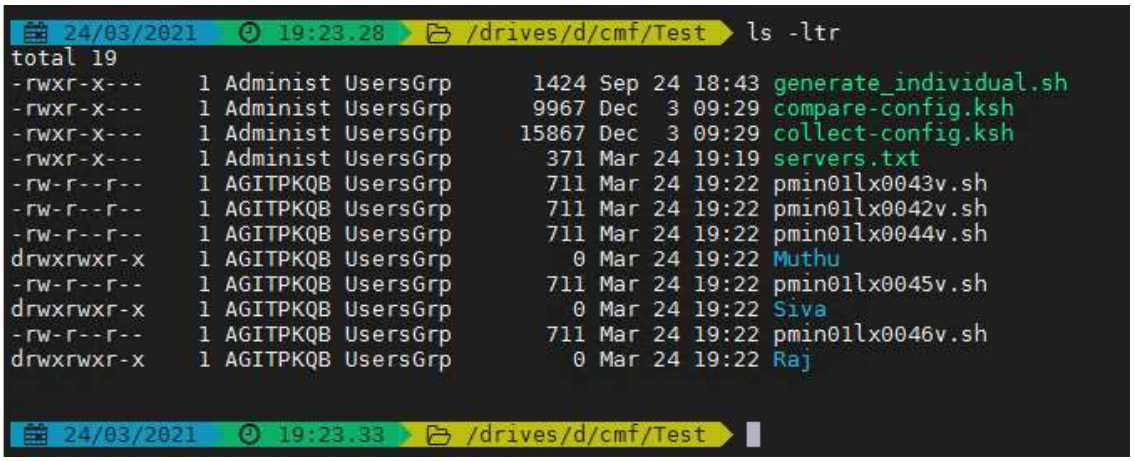
```
pmin01lx0042v 192.168.104.130    Muthu  $LOGIN_PASSWORD  $LOGIN_NAME `hostname`
pmin01lx0043v 192.168.104.131    Muthu  $LOGIN_PASSWORD  $LOGIN_NAME `hostname`
pmin01lx0044v 192.168.104.132    Siva   $LOGIN_PASSWORD  $LOGIN_NAME `hostname`
pmin01lx0045v 192.168.104.133    Siva   $LOGIN_PASSWORD  $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.





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