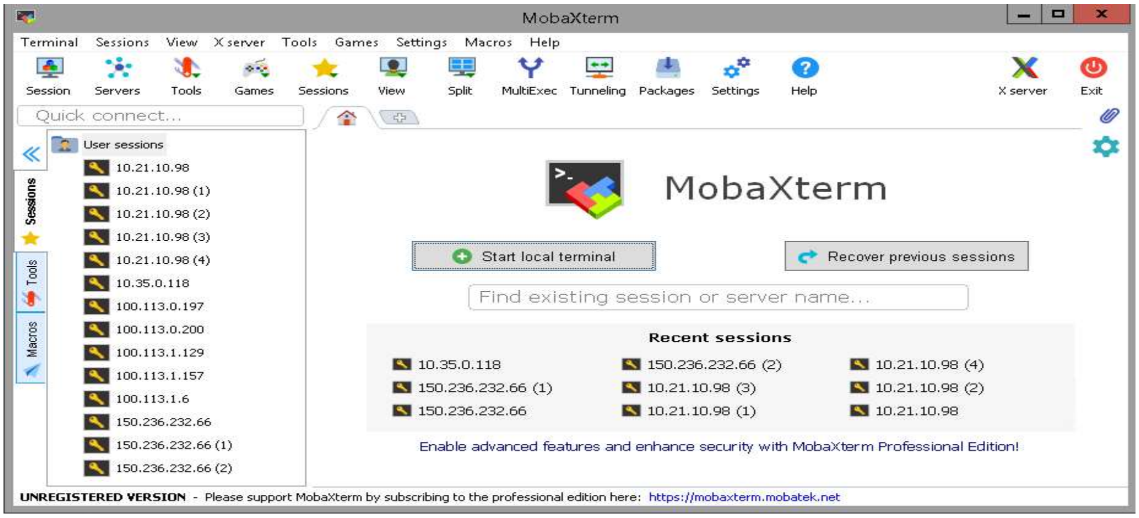
Collection of Linux Servers Details Remotely

This script will help to collect required data from the linux servers remotely without manual intervention.

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.

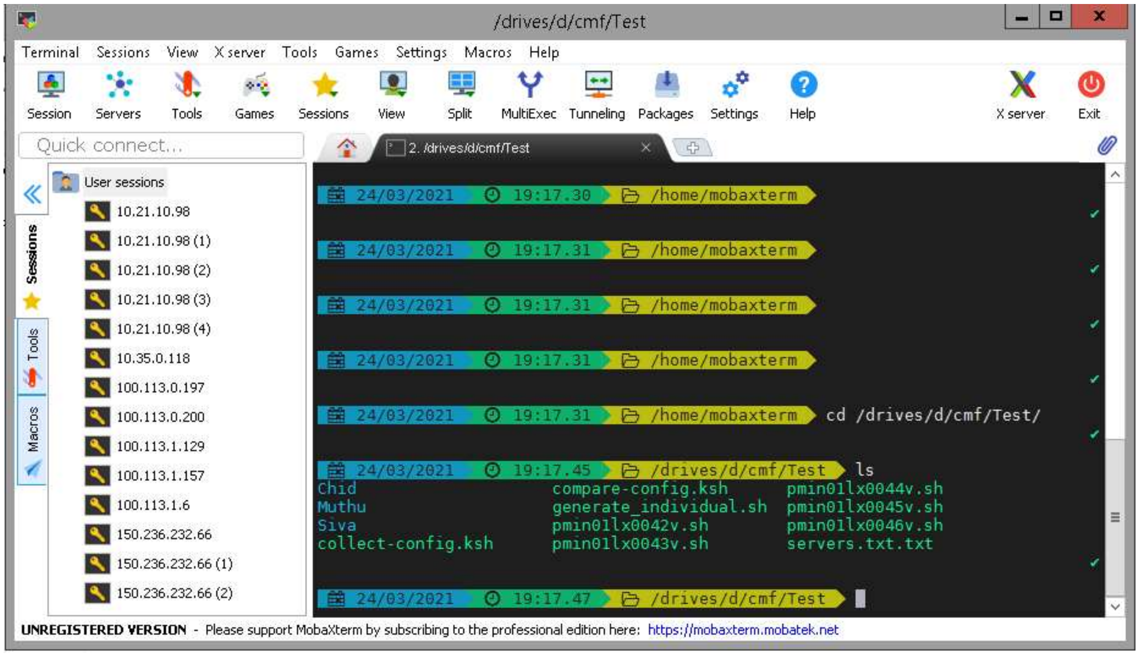
https://mobaxterm.mobatek.net/download-home-edition.html



Enable advanced features and enhance security with MobaXterm Professional Edition!

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net

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



```
 24/03/2021  19:17.30  /home/mobaxterm
                                                               ✓
 24/03/2021  19:17.31  /home/mobaxterm
                                                               ✓
 24/03/2021  19:17.31  /home/mobaxterm
                                                               ✓
 24/03/2021  19:17.31  /home/mobaxterm
                                                               ✓
 24/03/2021  19:17.31  /home/mobaxterm  cd /drives/d/cmf/Test/
                                                               ✓
 24/03/2021  19:17.45  /drives/d/cmf/Test  ls
Chid                       compare-config.ksh      pmin01lx0044v.sh
Muthu                      generate_individual.sh  pmin01lx0045v.sh
Siva                       pmin01lx0042v.sh        pmin01lx0046v.sh
collect-config.ksh         pmin01lx0043v.sh        servers.txt.txt
                                                               ✓
 24/03/2021  19:17.47  /drives/d/cmf/Test
```

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This script is easy to use, understand and add more commands to collect the data if there is any request.

Steps:

```
#cat servers.txt
srve02lx0131v   12.77.182.66    username        Password2020
srve02lx0132v   12.77.182.67    username        Password2020
srve02lx0133v   12.77.182.68    username        Password2020
srve02lx0134v   12.77.182.69    username        Password2020
```

```
#cat validation.sh
#!/bin/bash
# This script will collect the linux server required details remotely
# 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_NAME=`grep -w $i servers.txt |awk '{print $1}'`
LOGIN=`grep -w $i servers.txt |awk '{print $3}'`
PASSWORD=`grep -w $i servers.txt |awk '{print $4}'`
echo -en '\n' >> data-collection.txt
echo $SERVER_NAME >> data-collection.txt
echo $i >> data-collection.txt
echo "-----------------------------------"  >> data-collection.txt
echo -en '\n' >> data-collection.txt
echo "############### SERVER UPTIME ###############" >> data-collection.txt
sshpass -p $PASSWORD ssh -q -o StrictHostKeyChecking=no $LOGIN@$i "echo '$PASSWORD' | sudo
-S uptime" >> data-collection.txt
echo -en '\n' >> data-collection.txt
echo "############### NETWORK DETAIL ###############" >> data-collection.txt
sshpass -p $PASSWORD ssh -q -o StrictHostKeyChecking=no $LOGIN@$i "echo '$PASSWORD' | sudo
-S ip a" >> data-collection.txt
echo -en '\n' >> data-collection.txt
echo "############### FSTAB FILE ENTRIES ###############" >> data-collection.txt
sshpass -p $PASSWORD ssh -q -o StrictHostKeyChecking=no $LOGIN@$i "echo '$PASSWORD' | sudo
-S cat /etc/fstab" >> data-collection.txt
echo -en '\n' >> data-collection.txt
echo "############### ROUTE TABLE ###############" >> data-collection.txt
sshpass -p $PASSWORD ssh -q -o StrictHostKeyChecking=no $LOGIN@$i "echo '$PASSWORD' | sudo
-S route -n"  >> data-collection.txt
echo -en '\n' >> data-collection.txt
echo "############### FILE SYSTEM ###############" >> data-collection.txt
sshpass -p $PASSWORD ssh -q -o StrictHostKeyChecking=no $LOGIN@$i "echo '$PASSWORD' | sudo
-S df -Th" >> data-collection.txt
echo -en '\n' >> data-collection.txt
echo "############### SELINUX STATUS ###############" >> data-collection.txt
sshpass -p $PASSWORD ssh -q -o StrictHostKeyChecking=no $LOGIN@$i "echo '$PASSWORD' | sudo
-S getenforce" >> data-collection.txt
echo -en '\n' >> data-collection.txt
echo "############### Shares File Permission ###############" >> data-collection.txt
sshpass -p $PASSWORD ssh -q -o StrictHostKeyChecking=no $LOGIN@$i "echo '$PASSWORD' | sudo
-S ls -ld /opt/app/mito; ls -ld /backup" >> data-collection.txt
echo -en '\n' >> data-collection.txt
echo
"================================================================================
=========================" >> data-collection.txt
done
echo -en '\n' >> data-collection.txt
```

Sample Output:

```
#cat data-collection.txt
172.29.162.27
-----------------------------------
############### NETWORK DETAIL ###############
ens192: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 172.29.162.27  netmask 255.255.255.0  broadcast 172.29.162.255
        inet6 fe80::250:56ff:feae:49eb  prefixlen 64  scopeid 0x20<link>
        ether 00:50:56:ae:49:eb  txqueuelen 1000  (Ethernet)
        RX packets 53505030  bytes 13034192580 (12.1 GiB)
        RX errors 0  dropped 32407  overruns 0  frame 0
        TX packets 49262893  bytes 9618691930 (8.9 GiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

ens224: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.245.3.69  netmask 255.255.255.0  broadcast 10.245.3.255
        inet6 fe80::250:56ff:feb5:4526  prefixlen 64  scopeid 0x20<link>
        ether 00:50:56:b5:45:26  txqueuelen 1000  (Ethernet)
        RX packets 55770  bytes 4976038 (4.7 MiB)
        RX errors 0  dropped 26257  overruns 0  frame 0
        TX packets 19206  bytes 2245212 (2.1 MiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

############### FSTAB FILE ENTRIES ###############
# /etc/fstab
# Created by anaconda on Tue Apr 24 01:27:18 2018
#
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
#
/dev/mapper/rhel-root   /                       xfs     defaults        0 0
UUID=ab2857e9-41c0-47df-84d1-c474f78535b4 /boot                   xfs     defaults        0 0
/dev/mapper/rhel-home   /home                   xfs     defaults        0 0
/dev/mapper/rhel-opt    /opt                    xfs     defaults        0 0
/dev/mapper/rhel-tmp    /tmp                    xfs     defaults        0 0
/dev/mapper/rhel-var    /var                    xfs     defaults        0 0
/dev/mapper/rhel-swap   swap                    swap    defaults        0 0
## Application volume
/dev/vg0/lv-opt-resolve /opt/resolve            xfs     defaults        0 0
```

```
#172.29.159.195:/Enable_share /Enable_share   nfs
rw,intr,hard,sec=sys,timeo=600,wsize=32768,rsize=32768
130.100.128.197:/Enable_share /Enable_share nfs
rw,intr,hard,sec=sys,timeo=600,wsize=32768,rsize=32768

############### ROUTE TABLE ###############
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
0.0.0.0         172.29.162.1    0.0.0.0         UG    100    0        0 ens192
10.245.3.0      0.0.0.0         255.255.255.0   U     101    0        0 ens224
130.100.128.192 10.245.3.1      255.255.255.192 UG    101    0        0 ens224
172.29.162.0    0.0.0.0         255.255.255.0   U     100    0        0 ens192

############### FILE SYSTEM ###############
Filesystem                       Type      Size  Used Avail Use% Mounted on
/dev/mapper/rhel-root            xfs        15G  1.4G   14G  10% /
devtmpfs                         devtmpfs   16G     0   16G   0% /dev
tmpfs                            tmpfs      16G     0   16G   0% /dev/shm
tmpfs                            tmpfs      16G  122M   16G   1% /run
tmpfs                            tmpfs      16G     0   16G   0% /sys/fs/cgroup
/dev/sda1                        xfs       497M  173M  325M  35% /boot
/dev/mapper/rhel-home            xfs        10G  637M  9.4G   7% /home
/dev/mapper/rhel-tmp             xfs        10G   91M   10G   1% /tmp
/dev/mapper/rhel-var             xfs        15G  2.8G   13G  19% /var
/dev/mapper/rhel-opt             xfs       5.0G  461M  4.6G  10% /opt
/dev/mapper/vg0-lv--opt--resolve xfs       135G   28G  108G  21% /opt/resolve
tmpfs                            tmpfs     3.2G     0  3.2G   0% /run/user/7339929
130.100.128.197:/Enable_share    nfs       973M  864K  972M   1% /Enable_share
tmpfs                            tmpfs     3.2G     0  3.2G   0% /run/user/7269911
========================================================================
```

The Script Execution:

```
+ for i in '`cat master-input-file.txt|awk '\''{print $2}'\''`'
++ grep -w 172.29.162.157 master-input-file.txt
++ awk '{print $1}'
+ SERVER_NAME=pose01lx0343v
++ grep -w 172.29.162.157 master-input-file.txt
++ awk '{print $7}'
+ LOGIN=agitpkqbki
++ grep -w 172.29.162.157 master-input-file.txt
++ awk '{print $8}'
+ PASSWORD=Password2020
+ echo -en '\n'
+ echo 172.29.162.157
+ echo ----------------------------------
+ echo -en '\n'
+ echo '############### NETWORK DETAIL ###############'
+ sshpass -p Password2020 ssh -q -o StrictHostKeyChecking=no agitpkqbki@172.29.162.157 'echo
'\''Password2020'\'' | sudo -S ifconfig -a'
```

```
[sudo] password for agitpkqbki: + echo -en '\n'
+ echo '############### FSTAB FILE ENTRIES ###############'
+ sshpass -p Password2020 ssh -q -o StrictHostKeyChecking=no agitpkqbki@172.29.162.157 'echo
'\''Password2020'\'' | sudo -S cat /etc/fstab'
[sudo] password for agitpkqbki: + echo -en '\n'
+ echo '############### ROUTE TABLE ###############'
+ sshpass -p Password2020 ssh -q -o StrictHostKeyChecking=no agitpkqbki@172.29.162.157 'echo
'\''Password2020'\'' | sudo -S route -n'
[sudo] password for agitpkqbki: + echo -en '\n'
+ echo '############### FILE SYSTEM ###############'
+ sshpass -p Password2020 ssh -q -o StrictHostKeyChecking=no agitpkqbki@172.29.162.157 'echo
'\''Password2020'\'' | sudo -S df -Th'
[sudo] password for agitpkqbki: + echo
========================================================================================
+ echo -en '\n'
```