

Bulk Change NW Hosts ssh root & iDRAC webUI root Passwords From NW-server

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1. Environment (ssh root password is default netwitness):

- NW-server: 192.168.2.101
- NW packet-decoder: 192.168.2.111
- NW concentrator: 192.168.2.121

2. Bulk change NW packet-decoder and concentrator ssh root password from NW-server:

2.1 ssh into NW-server and setup auto-ssh to NW packet-decoder and concentrator:

```
login as: root
root@192.168.2.101's password: netwitness
Last login: Fri Oct 14 20:47:39 2016 from 192.168.2.2
[root@NW-server ~]# ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Created directory '/root/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
22:6e:4b:6d:18:2d:04:96:b4:23:50:87:60:0f:49:b9 root@NW-server
The key's randomart image is:
+--[ RSA 2048]-----+
|+BBo.                |
|o+==+               |
|. +..                |
|  + o S              |
| . * .               |
| = o                 |
| o o                 |
| .                   |
+-----+
[root@NW-server ~]# cat /root/.ssh/id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEASx7AO3DOXZRKctoEuZWPjyRuQ5yR5kFzNhEadtFUdhje/FkS
.....
HWQNfvLFVhOoipf/QcBBBe70ETaDnSvU1WpE1j8M+yTD3AgSnpS1KN2hwWkP+XZ8
4vog13X4V0FQWvYdKj5rqHXuyCBadaQaxZ5rcCFgO6P+UOkaf7OB
-----END RSA PRIVATE KEY-----
[root@NW-server ~]# cat /root/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAQEA5x7AO3DOXZRKctoEuZWPjyRuQ5yR5kFzNhEadtFUdhje
.....+KKS4wgbNS455+d2EqbdsftnsedlwzeBnUmFNSDrrHai2SFCnUvrQoB5KQ== root@NW-server
[root@NW-server ~]# ssh-copy-id 192.168.2.111
The authenticity of host '192.168.2.111 (192.168.2.111)' can't be established.
RSA key fingerprint is 9a:39:51:b5:26:19:44:44:f1:74:f6:b8:20:90:b6:5d.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.2.111' (RSA) to the list of known hosts.
root@192.168.2.111's password: netwitness
Now try logging into the machine, with "ssh '192.168.2.111'", and check in:

    .ssh/authorized_keys

to make sure we haven't added extra keys that you weren't expecting.

[root@NW-server ~]# ssh-copy-id 192.168.2.121
The authenticity of host '192.168.2.121 (192.168.2.121)' can't be established.
RSA key fingerprint is 85:6e:25:65:9f:cd:a1:67:41:48:66:73:58:43:3e:df.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.2.121' (RSA) to the list of known hosts.
root@192.168.2.121's password: netwitness
Now try logging into the machine, with "ssh '192.168.2.121'", and check in:

    .ssh/authorized_keys

to make sure we haven't added extra keys that you weren't expecting.
[root@NW-server ~]#
```

2.2 Confirm auto-ssh from NW-server to NW packet-decoder and concentrator IPs okay:

```
[root@NW-server ~]# ssh 192.168.2.111
Last login: Fri Jun 26 18:46:47 2015 from 10.251.42.197
[root@packetdecoder ~]# exit
logout
Connection to 192.168.2.111 closed.
[root@NW-server ~]#
```

```
[root@NW-server ~]# ssh 192.168.2.121
Last login: Fri Jun 26 18:32:40 2015 from 10.251.42.197
[root@concentrator ~]# exit
logout
Connection to 192.168.2.121 closed.
[root@NW-server ~]#
```

2.3 Create hosts file on NW-server that contains NW packet-decoder & concentrator IPs:

```
[root@NW-server ~]# vi hosts
[root@NW-server ~]# cat hosts
192.168.2.111
192.168.2.121
[root@NW-server ~]#
```

2.4 Test bulk display NW packet-decoder and concentrator hostnames from NW-server:

```
[root@NW-server ~]# hostname
NWserver
[root@NW-server ~]# for x in `cat hosts`;do ssh -qt root@$x "hostname";done
packetdecoder
concentrator
[root@NW-server ~]#
```

2.5 Bulk change NW packet-decoder and concentrator ssh root password from NW-server:

```
[root@NW-server ~]# for x in `cat hosts`;do ssh -qt root@$x "echo SomeWord#\!18 | passwd root
--stdin";done
Changing password for user root.
passwd: all authentication tokens updated successfully.
Changing password for user root.
passwd: all authentication tokens updated successfully.
[root@NW-server ~]#
```

Note1:

Above for loop command successfully changed NW packet-decoder and concentrator ssh **root** password to **SomeWord#!18**

Note2:

Special characters **#** and **!** in the password have to be properly quoted with **** as shown above.

3. Bulk change NW packet-decoder and concentrator iDRAC webUI root password from NW-server:

3.1 Test bulk display NW packet-decoder and concentrator hostnames and iDRAC root users from NW-server:

```
[root@NW-server ~]# cat hosts | xargs -i ssh '{}' 'hostname;ipmitool user list 1'
packetdecoder
ID Name          Callin Link Auth IPMI Msg Channel Priv Limit
2  root           true  true   true   ADMINISTRATOR
concentrator
ID Name          Callin Link Auth IPMI Msg Channel Priv Limit
2  root           true  true   true   ADMINISTRATOR
[root@NW-server ~]#
```

3.2 Bulk change NW packet-decoder and concentrator iDRAC webUI root password from NW-server:

```
[root@NW-server ~]# cat hosts | xargs -i ssh '{}' 'ipmitool user set password 2 SomeWord#\!18'
[root@NW-server ~]#
```

Note1:

Above command successfully changed NW packetdecoder and concentrator iDRAC webUI **root** password to **SomeWord#!18**. Note there are NO command feedback messages.

Note2:

Special characters **#** and **!** in the password have to be properly quoted with **** as shown above.

Note3:

One DOES NOT NEED TO KNOW the current iDRAC webUI **root** password to change it! So it is useful if one forgets or does not know the current iDRAC webUI **root** password. One DOES NEED know the current ssh **root** password of NW-server (if auto-ssh is setup on NW-server to other NW-hosts per doc above), so one can ssh **root** login to NW-server and issue password change commands above.

Note4:

In this document we used NW-Server to setup auto-ssh to NW-hosts and run bulk change password commands. One can also use other NW-hosts or generic Linux server (with ipmitool rpm installed) to do the same, if desired.

Note5:

Please see below **Appendix** on details on how to use **ipmitool user** command to verify and change NW hosts iDRAC webUI **root** account and its password.

Appendix

Use `ipmitool user` command to change any NW-host's iDRAC webUI `root` account password (default: `themaster01`)

First, one has to ssh into the NW-host as `root` account.

Once ssh into the NW-host, issue below `ipmitool user` command to see its options:

```
[root@NW-host~]# ipmitool user
User Commands: summary [<channel number>]
                List [<channel number>]
                set name <user id> <username>
                set password <user id> [<password>]
                disable <user id>
                enable <user id>
                priv <user id> <privilege level> [<channel number>]
[root@NW-host~]#
```

Next, use below command to confirm `root` account id is `2`:

```
[root@NW-host~]# ipmitool user list 1
  ID Name      Callin Link Auth   IPMI Msg   Channel Priv Limit
  2  root      true   true       true      ADMINISTRATOR
[root@NW-host~]#
```

Finally change `root` account password to `newpasswd` below:

```
[root@NW-host~]# ipmitool user set password 2 newpasswd
[root@NW-host~]#
```

Note1: Above command works even if the old `root` password is unknown!

Note2: If iDRAC webUI <https://<NW-host-idrac-ip>> `root` account is DISABLED for some reason, login to iDRAC webUI `root` account even with the CORRECT password will FAIL; even issue above change iDRAC webUI `root` password command will NOT work!

In this case, one has to **ENABLE** iDRAC webUI `root` account FIRST via command below:

```
[root@NW-host~]# ipmitool user enable 2
[root@NW-host~]#
```

Note3: Dell changed the index of the iDRAC webUI `root` user between iDRAC5 and 6:

- For iDRAC 5 and older: the root user is on index/id 1
- For iDRAC 6 and newer: the root user is on index/id 2