Reset password to "ADMIN' Using Raw Command Script

Summary

Feature: Change all admin passwords for all IP in range using Supermicro mapping file to default "ADMIN"

Ping is used to test the valid IP addresses in IP range.
Using ARP (Address Resolution Protocol), pinging an IP address on your local network will first look at the local ARP table on the system, to retrieve its MAC address. If the IP address is not found in the ARP table, the system will send a broadcast packet to the network. All machines on the network will receive it and any machine with the requested IP address will respond back, adding to the local ARP table with its MAC address.

Using the MAC addresses found on the ARP table, it will match the IP addresses in the IP range to their passwords found in the mapping file. Using SUM and its function SetBmcpassword, the BMC password is changed to the password found in user password file for each pair of IP address to unique password.

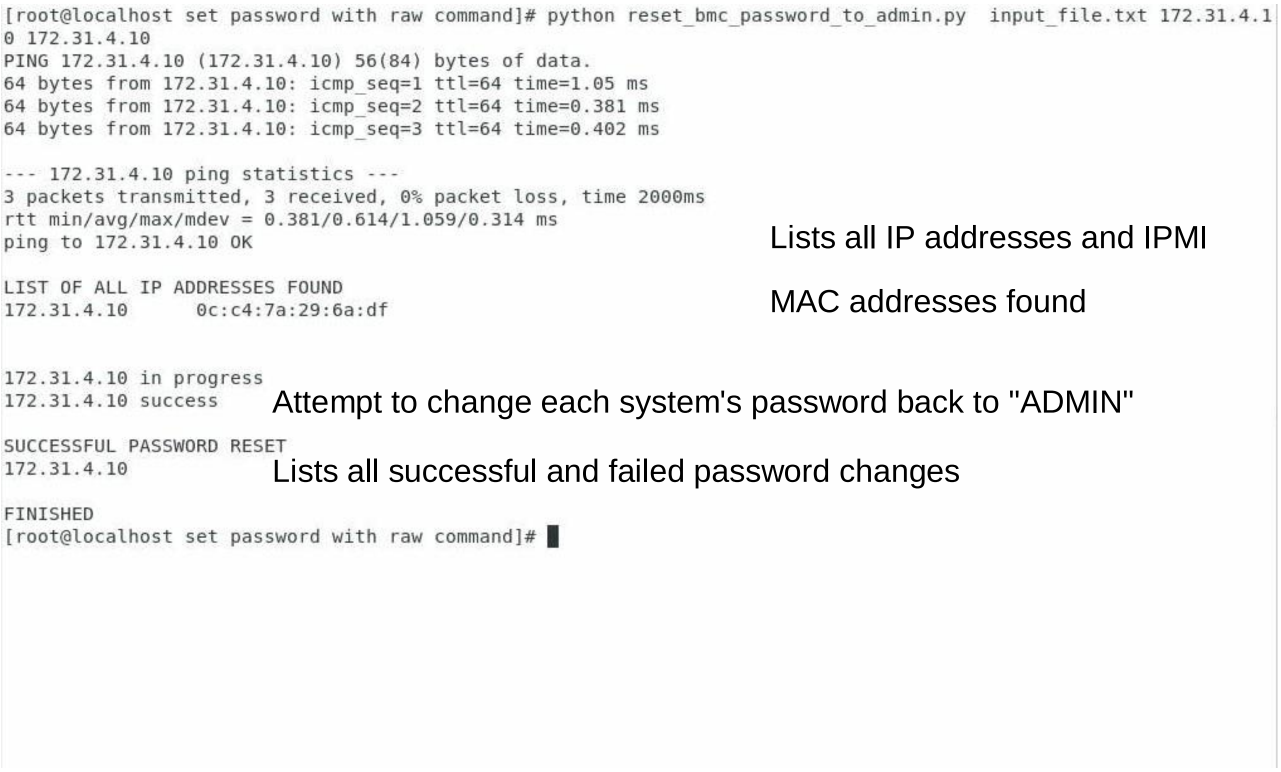
Prerequisites

- Python 3
- Libraries included: subprocesses, re, argparse, sys, os
- Linux environment
- IPMITool
- Supermicro mapping file
- txt file containing IPMI mac addresses and unique passwords
- Must be in format Item Number, Serial Number, IPMI MAC, and unique password in this order separated by commas
- Run on same subnet as systems
- Each system must have firmware that supports unique password

Usage

python reset_bmc_password_to_admin [supermicro_mapping_file] [start_ip] [end_ip]

-h, --help can be used for help with parameters



```
[root@localhost set password with raw command]# python reset_bmc_password_to_admin.py  input_file.txt 172.31.4.1
0 172.31.4.10
PING 172.31.4.10 (172.31.4.10) 56(84) bytes of data.
64 bytes from 172.31.4.10: icmp_seq=1 ttl=64 time=1.05 ms
64 bytes from 172.31.4.10: icmp_seq=2 ttl=64 time=0.381 ms
64 bytes from 172.31.4.10: icmp_seq=3 ttl=64 time=0.402 ms

--- 172.31.4.10 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2000ms
rtt min/avg/max/mdev = 0.381/0.614/1.059/0.314 ms
ping to 172.31.4.10 OK

LIST OF ALL IP ADDRESSES FOUND
172.31.4.10      0c:c4:7a:29:6a:df


172.31.4.10 in progress
172.31.4.10 success

SUCCESSFUL PASSWORD RESET
172.31.4.10

FINISHED
[root@localhost set password with raw command]# 
```

Lists all IP addresses and IPMI

MAC addresses found

Attempt to change each system's password back to "ADMIN"

Lists all successful and failed password changes