

Reset Password if forget username and password

Procedure :

Step 1: Reboot system and press "e" to edit SONiC grub option (e.g SONiC-OS-Edgecore-SONiC_20201123_130028_ec202006_74)

GNU GRUB version 2.02~beta3

```
+-----+
|*SONiC-OS-Edgecore-SONiC_20201123_130028_ec202006_74|
| ONIE |
| |
| |
| |
| |
| |
+-----+
```

Use the ^ and v keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the commands
before booting or 'c' for a command-line.

GNU GRUB version 2.02~beta3

```
+-----+
|setparams 'SONiC-OS-Edgecore-SONiC_20201123_130028_ec202006_74'|
| |
| search --no-floppy --label --set=root SONiC-OS |
| echo 'Loading SONiC-OS OS kernel ...' |
| insmod gzio |
| if [ x = xxen ]; then insmod xzio; insmod lzopio; fi |
| insmod part_msdos |
| insmod ext2 |
| linux /image-Edgecore-SONiC_20201123_130028_ec202006_74/boot/vmlinuz-4.19.0-6-2-amd64 root=UUID=3ec4cab4-38b0-473d-a1ef-0a667f144c1e rw cons\ |
|ole=tty0 console=ttyS0,115200n8 quiet net.ifnames=0 biosdev\ |
|vname=0 loop=image-Edgecore-SONiC_20201123_130028_ec202006_\ |v
|74/fs.squashfs loopfstype=squashfs ap\ |
|parmor=1 security=apparmor varlog_size=4096 usbcore.autosuspend=-1 pcie_asp\ |
|m=off tg3.short_preamble=1 tg3.bcm5718s_reset=1 |
| echo 'Loading SONiC-OS OS initial ramdisk ...' |
| initrd /image-Edgecore-SONiC_20201123_130028_ec202006_74/boot/init\ |
|rd.img-4.19.0-6-2-amd64 |
```

```
+-----+
Minimum Emacs-like screen editing is supported. TAB lists
completions. Press Ctrl-x or F10 to boot, Ctrl-c or F2 for
a command-line or ESC to discard edits and return to the GRUB menu.
```

Step 2: Add `init=/bin/bash` as shown below,

```
+-----+
|setparams 'SONiC-OS-Edgecore-SONiC_20201123_130028_ec202006_74'      |
|                                                                    |
| search --no-floppy --label --set=root SONiC-OS                    |
| echo 'Loading SONiC-OS OS kernel ...'                             |
| insmod gzio                                                        |
| if [ x = xxen ]; then insmod xzio; insmod lzopio; fi              |
| insmod part_msdos                                                  |
| insmod ext2                                                        |
| linux /image-Edgecore-SONiC_20201123_130028_ec202006_74/boot/vmlinuz-4.19.0-6-2-amd64 root=UUID=3ec4cab4-38b0-473d-a1ef-0a667f144c1e rw cons\ |
|ole=tty0 console=ttyS0,115200n8 init=/bin/bash quiet net.ifnames=0 biosde\ |
|vname=0 loop=image-Edgecore-SONiC_20201123_130028_ec202006_\ |v
|74/fs.squashfs loopfstype=squashfs                                ap\ |
|parmor=1 security=apparmor varlog_size=4096 usbcore.autosuspend=-1 pcie_asp\ |
|m=off tg3.short_preamble=1 tg3.bcm5718s_reset=1                    |
| echo 'Loading SONiC-OS OS initial ramdisk ...'                   |
| initrd /image-Edgecore-SONiC_20201123_130028_ec202006_74/boot/init\ |
|rd.img-4.19.0-6-2-amd64                                           |
+-----+
Minimum Emacs-like screen editing is supported. TAB lists
completions. Press Ctrl-x or F10 to boot, Ctrl-c or F2 for
a command-line or ESC to discard edits and return to the GRUB menu.
```

Note: This insertion will be restored after rebooting. Therefore, it's not necessary to edit grub option again.

Step 3: Press Ctrl+x to boot

```
Loading SONiC-OS OS kernel ...
Loading SONiC-OS OS initial ramdisk ...
[ 2.708038] irq 16: nobody cared (try booting with the "irqpoll" option)
[ 2.714804] handlers:
[ 2.717210] [<ffffffff94c427b0>] serial8250_interrupt
[ 2.722539] Disabling IRQ #16
[ 3.647833] ixgbe 0000:08:00.1: HW Init failed: -17
bash: cannot set terminal process group (-1): Inappropriate ioctl for device
bash: no job control in this shell
root@(none):/#
```

Step 4: Now you're able to modify the password by linux command. Username root as example.

```
root@(none):/# passwd root
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

Step 5: Reboot the switch by linux command or Power cycle the switch

```
root@(none):/# reboot -f
```

Reference: SONiC Github <https://github.com/Azure/SONiC/blob/master/doc/SONiC-User-Manual.md#23-how-to-reset-password>

Barefoot switch(Wedge100BF-32X/65X)

Tested model & firmware version:

- Switch model name:

Wedge100BF-65X

- Edgecore SONiC version:

202012.1

202012.2

Procedure:

Step1. <BMC> Power cycle the NOS by BMC command.

```
root@bmc:~# wedge_power.sh reset
board type is Mavericks
Power reset microserver ... Done
root@bmc:~# sol.sh
You are in SOL session.
Use ctrl-x to quit.
-----
```

Step2. <GRUB> Login to **ONIE rescue** mode.(Be sure to **ONIE rescue** mode.)

GNU GRUB version 2.02

```
SONiC-OS-Edgecore-SONiC_20211001_044327_ec202012_bfn_70
SONiC-OS-Edgecore-SONiC_20211203_013553_ec202012_bfn_121
*ONIE
```

Use the ▲ and ▼ keys to select which entry is highlighted.
Press enter to boot the selected OS, `e` to edit the commands

GNU GRUB version 2.02

```
+-----+
| ONIE: Install OS                |
| *ONIE: Rescue                  |
| ONIE: Uninstall OS             |
| ONIE: Update ONIE              |
| ONIE: Embed ONIE               |
| DIAG: Accton Diagnostic (accton_wedge100bf) |
|                                |
|                                |
|                                |
|                                |
|                                |
+-----+
```

Use the ^ and v keys to select which entry is highlighted.
Press enter to boot the selected OS, `e` to edit the commands
before booting or `c` for a command-line.

Step3. <ONIE> Check the partition where SONIC is installed. In this example, SONIC is installed on the third partition of /dev/sda.

```
ONIE:/ # parted -l
Model: ATA FS128GM280I-AC (scsi)
Disk /dev/sda: 128GB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
Disk Flags:
```

Number	Start	End	Size	File system	Name	Flags
1	1049kB	269MB	268MB	fat16	EFI System	boot,hidden
2	269MB	404MB	134MB	ext4	ONIE-BOOT	hidden
4	404MB	34.8GB	34.4GB	ext4	ACCTON-DIAG	hidden
3	69.1GB	103GB	34.4GB	ext4	SONiC-OS	

ONIE:/ #

Step4. Create a provisional folder to mount SONIC partition.

ONIE:/ # `mkdir /mnt/sonic_recovery`

Step5. Mount the SONIC partition to provisional folder.

ONIE:/ # `mount -t ext4 /dev/sda3 /mnt/sonic_recovery`

Step6. Go to SONIC partition folder. In this example, we modify the password of admin account in Edgecore-SONiC_20211001_044327_ec202012_bfn_70. Go to the /etc in this version.

```
ONIE:/mnt/sonic_recovery # ls -l
drwxr-xr-x  2 root  0      4096 Dec 15 11:11 disk-img
drwxr-xr-x  5 root  0      4096 Dec 15 11:10 grub
drwxr-xr-x  8 root  0      4096 Dec 15 16:15 image-Edgecore-SONiC_20211001_044327_ec202012_bfn_70
drwxr-xr-x  7 root  0      4096 Dec 15 11:11 image-Edgecore-SONiC_20211203_013553_ec202012_bfn_121
drwx-----  2 root  0     16384 Dec 15 11:09 lost+found
-rw-r--r--  1 root  0      875 Dec 15 11:10 machine.conf
drwxr-xr-x  2 root  0      4096 Feb 10 03:21 migration
drwxr-xr-x  4 root  0      4096 Feb 10 03:21 reboot-cause
drwxr-xr-x  4 root  0      4096 Dec 15 11:14 warmboot
drwxr-xr-x  2 root  0      4096 Dec 15 11:12 ztp
ONIE:/mnt/sonic_recovery # cd image-Edgecore-SONiC_20211001_044327_ec202012_bfn_70/rw/etc/
ONIE:/mnt/sonic_recovery/image-Edgecore-SONiC_20211001_044327_ec202012_bfn_70/rw/etc #
```

Step7. <ONIE> Mark the admin password configuration in "shadow" file. In the example, we remove the admin password configuration by "sed".

```
ONIE:/mnt/sonic_recovery/image-Edgecore-SONiC_20211001_044327_ec202012_bfn_70/rw/etc # admin_shadow=`awk -F ':' '{ $2="" ; print $0 }' shadow | grep admin | sed 's/\ /:/g`
ONIE:/mnt/sonic_recovery/image-Edgecore-SONiC_20211001_044327_ec202012_bfn_70/rw/etc # sed -i "s/admin.*/$admin_shadow/g" shadow
```

Step8. <ONIE> Reboot device

ONIE:/mnt/sonic_recovery/image-Edgecore-SONiC_20211001_044327_ec202012_bfn_70/rw/etc # `reboot`

Step9. <SONiC> Login to SONiC by admin account without password and then change the password by "passwd".(refer to [\[Edgecore SONiC\] Username and Password](#))

sonic login: [admin](#)

Last login: Thu Feb 10 03:25:18 UTC 2022 on ttyS0

Linux sonic 4.19.0-12-2-amd64 #1 SMP Debian 4.19.152-1 (2020-10-18) x86_64

You are on

```
  _ _ _ _ _  
/ _ | / _ \ | \ | ( ) / _ |  
\ _ \ | | | | \ | | |  
 _ ) | | | | \ | | _  
| _ / \ _ / | \ _ | \ _ |
```

-- Software for Open Networking in the Cloud --

Unauthorized access and/or use are prohibited.

All access and/or use are subject to monitoring.

Help: <http://azure.github.io/SONiC/>

admin@sonic:~\$ [sudo passwd admin](#)

New password:

Retype new password:

passwd: password updated successfully