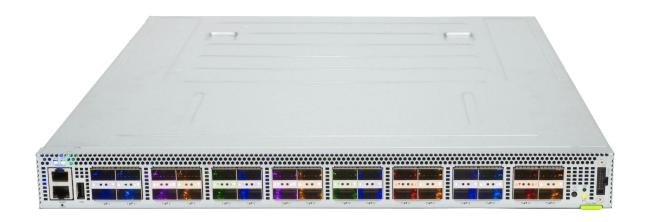


# WEDGE STARTER GUIDE 100-32x / 100S-32x



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# Purpose

Wedge switches are whitebox switches, also called bare metal switches. That means they come without any switch software image.

By default ONIE (Open Network Install Environment <a href="http://onie.org/">http://onie.org/</a>) is installed, it is used to install switching OS like Cumulus or SONiC.

We describe in the documentation, for example, how to install a switching OS like Cumulus.

# Package content

1 switch

1 rack mounting kit

Power supply:

- 1 AC power supply in OpenRack v1
- 1 DC power supply in OpenRack v2
- 2 AC power supply with C14/C15 powercords ii standalone package

# **OCP** specifications

**WEDGE 100:** 

http://files.opencompute.org/oc/public.php?service=files&t=b5754ed14c295a362b
6511fd9615fd55

WEDGE 100S

https://www.opencompute.org/documents/facebook-wedge-100s-32x100g

# Log in the OpenBMC console

You can use 2 different way, each of them must be tested:

- Serial connection with a serial adaptor
- SSH through your network with DHCP server



OpenBMC default credentials : root / OpenBmc

# Log in via Serial

You need a USB to RJ45 cable or a couple RJ45 to RS232 and a RS232 to USB adaptor. Then you need a terminal software like *screen* (Linux or MacOS) or *putty* (Windows). Connect the RJ45 plug into the **Console** port in the front.

# Log in via SSH

Connect the RJ45 plug into the MGMT port in the front.

Once you have figured out the IP address assigned to OpenBMC you can SSH into it as root.



OpenBMC is configured in DHCP by default.

### Check Micro-Server Power State

In the OpenBMC console, use the script wedge\_power.sh to see micro-server's power state.

root@bmc:~# wedge\_power.sh status
Microserver power is on



When OpenBMC starts, it turns on the micro-server at the end of its boot sequence. So, the micro-server should be powered on.

# Connect to Micro-Server through Serial-Over-Lan

From the OpenBMC console you can connect to serial port of the micro-server running the script *sol.sh* 

root@bmc:~# sol.sh

You will be available to see the CPU board booting and access to the Micro-Server environment.



To quit the Serial-Over-Lan redirection type ctrl+x

# Install a switching OS

# Connect to Micro-Server through Serial-Over-Lan

From the OpenBMC console you can connect to serial port of the micro-server running the script sol.sh

root@bmc:~# sol.sh



You may have to reboot the micro-server to have ONIE boot interface with: wedge\_power.sh reset

#### Cumulus Linux Installation

Starting from now, the micro-server will boot on ONIE from its internal drive.

Choose *ONIE: Install OS*. After ONIE kernel boot, ONIE will try to fetch an operating system over the network. Press *Enter* to see ONIE prompt and stop this process using the command *onie-stop*.

ONIE: / # onie-stop



More informations on Cumulus Linux website <a href="https://docs.cumulusnetworks.com/">https://docs.cumulusnetworks.com/</a> Cumulus Linux support only 3.X version for WEDGE

# HTTP installation

Install Cumulus Linux from an image over HTTP

ONIE:/ # onie-nos-install http://IP@server/cumulus-linux-3.X.X-bcm-amd64.bin

USB installation

Install Cumulus Linux from an USB key

ONIE:/ # onie-nos-install /mnt/usb/cumulus-linux-3.X.X-bcm-amd64.bin





To mount an USB key you can type: mount /dev/sdb1 /mnt/usb

ONIE will install the necessary files for the installation and reboot automatically.

GNU GRUB version 2.02~beta	3
*******************	******
**CUMULUS-INSTALL	*
* CUMULUS-INSTALL [Interactive]	*
* ONIE	
*	
*****************	******
Use the * and * keys to select which entry is h Press enter to boot the selected OS, `e' to edi before booting or `c' for a command-line.	

#### Select CUMULUS INSTALL

Let the install process

After reboot, the default boot entry will be **CUMULUS**.





Cumulus default credentials : cumulus/CumulusLinux!

Cumulus is installed, you have to configure it according to your needs.



More informations on Cumulus Linux website <a href="https://docs.cumulusnetworks.com/">https://docs.cumulusnetworks.com/</a> Cumulus Linux support only 3.X version for WEDGE

## Remove Cumulus Linux

#### Reboot the switch and select ONIE

#### Then select ONIE-UNINSTALL

When the uninstall process is done (It may take 15 minutes), the switch reboot automatically.