Backing up and upgrading Cumulus Linux

Backing up and restoring switch configurations and upgrading the switch image version

You can back up and restore the configuration file with NVUE only if you used NVUE commands to configure the switch you want to upgrade.

The location of configuration data is essential for upgrades, migrations, and backups. As with other Linux distributions, the /etc directory is the primary location for all configuration data in Cumulus Linux. Click the buttons to see the files you need to back up and migrate to a new release.

Network configuration files

Commonly used files

File Name and Location	Description
/etc/frr/	Routing application (responsible for BGP and OSPF)
/etc/hostname	Configuration file for the hostname of the switch
/etc/network/	Network configuration files, most notably /etc/network/interfaces and /etc/netw ork/interfaces.d/
/etc/resolv.conf	DNS resolution
/etc/hosts	Configuration file for the hostname of the switch
/etc/cumulus/acl/*	Net filter configuration
/etc/cumulus/control-	Configuration for control plane policers

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/etc/cumulus/control- plane/policers.conf	Configuration for control plane policers
/etc/cumulus/datapath/qos/qos_features .conf	Note: In Cumulus Linux version 5.0 and later, default ECN configuration parameters start with default_ecn_red_conf instead of default_ecn_conf
/etc/mlx/datapath/qos/qos_infra.conf	QoS configuration
/etc/mlx/datapath/tcam_profile.conf	Configuration for the forwarding table profiles
/etc/cumulus/datapath/traffic.conf	Configuration for the forwarding table profiles
/etc/cumulus/norts conf	Breakout cable configuration file

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Network configuration files	Com	monly used files	Never migrate files
COME		ECN configuration parameters start with default_ecn_red_conf instead of default ecn conf	
/etc/mlx/datapath/qos/qos_in	fra.conf	QoS configuration	
/etc/mlx/datapath/tcam_profile.conf		Configuration for the forwarding table profiles	
/etc/cumulus/datapath/traffi	c.conf	Configuration for the for	orwarding table profiles
/etc/cumulus/ports.conf		Breakout cable configuration file	
/etc/cumulus/switchd.conf		switchd configuration	
/etc/cumulus/switchd.d/qos.conf		QoS configuration	



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Commonly used files

File Name and Location	Description
/etc/motd	Message of the day
/etc/passwd	User account information
/etc/shadow	Secure user account information
/etc/group	Defines user groups on the switch
/etc/init/lldpd.conf	Link Layer Discover Protocol (LLDP) daemon configuration
/etc/lldpd.d/	Configuration directory for Ildpd
/etc/nsswitch.conf	Name Service Switch (NSS) configuration file
/etc/ssh/	SSH configuration files

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Network configuration files	Commonly used files	Never migrate files	
/ CCC/ S11440W	Secure user account inionnatio		
/etc/group	Defines user groups on the swi	Defines user groups on the switch	
/etc/init/lldpd.conf	Link Layer Discover Protocol (LLDP) daemon configuration		
/etc/lldpd.d/	Configuration directory for Ildpd		
/etc/nsswitch.conf	Name Service Switch (NSS) configuration file		
/etc/ssh/	SSH configuration files		
/etc/sudoers, /etc/sudoers.d	of/etc/sudoers	es in /etc/sudoers.d/ instead s.d/ directory are not lost during	



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Network configuration files

Commonly used files

File Name and Location	Description
/etc/mlx/	Per-platform hardware configuration directory, created on first boot – do not copy
/etc/default/clagd	Created and managed by ifupdown2 - do not copy
/etc/default/grub	Grub init table – do not modify manually.
/etc/default/hwclock	Platform hardware-specific file – created during first boot – do not copy
/etc/init	Platform initialization files – do not copy
/etc/init.d/	Platform initialization files – do not copy
/etc/fstab	Static information on filesystem – do not copy

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Network configuration files	Commonly used files	Never migrate files		
		,		
/etc/fstab	Static information on filesystem –	Static information on filesystem – do not copy		
/etc/image-release	System version data – do not cop	System version data – do not copy		
/etc/os-release	System version data – do not cop	System version data – do not copy		
/etc/lsb-release	System version data – do not cop	System version data – do not copy		
/etc/lvm/archive	Filesystem files – do not copy	Filesystem files – do not copy		
/etc/lvm/backup	Filesystem files – do not copy	Filesystem files – do not copy		
/etc/modules	Created during first boot – do not	Created during first boot – do not copy		
/etc/modules-load.d/	Created during first boot – do not	Created during first boot – do not copy		



Using NVUE to back up and restore the configuration

With Cumulus Linux version 5.0 and later, work through the following procedure to back up and restore the configuration:

- 1. Run the nv config show -o commands > backup.config command to save the commands to the backup.config file. cumulus@switch:~\$ nv config show -o commands > backup.config
- 2. Copy the backup.config file off the switch to a different location.
- 3. After the upgrade is complete, restore the configuration. Copy the backup.config file to the switch, and then run the source backup.config command to run all the commands in the file.
- 4. Verify the configuration on the switch, and then run the nv config save command to save the configuration to the /etc/nvue.d/startup.yaml file.



Upgrading Cumulus Linux

The following two methods can be used to upgrade Cumulus Linux:

- Install a Cumulus Linux image of the new release.
 - From Cumulus Linux

```
cumulus@switch:~$ sudo onie-install -a -i
http://10.0.1.251/path/to/cumulus-install-x86_64.bin
- From ONIE
ONIE:/ #onie-nos-install http://10.0.1.251/path/to/cumulus-
install-x86 64.bin
```

• Upgrade only the changed packages using the sudo -E apt-get update and sudo -E apt-get upgrade commands.

Use the sudo -E apt-get update and sudo -E apt-get upgrade commands to run a package upgrade if you are upgrading from Cumulus Linux version 5.0.0 to a later 5.x release.

The switch should be restarted after an installation or upgrade.

Note: For more information about Installing a New Cumulus Linux Image, refer to the NVIDIA DOCS HUB.

