Saving and Restoring the EdgeMarc Series Configuration

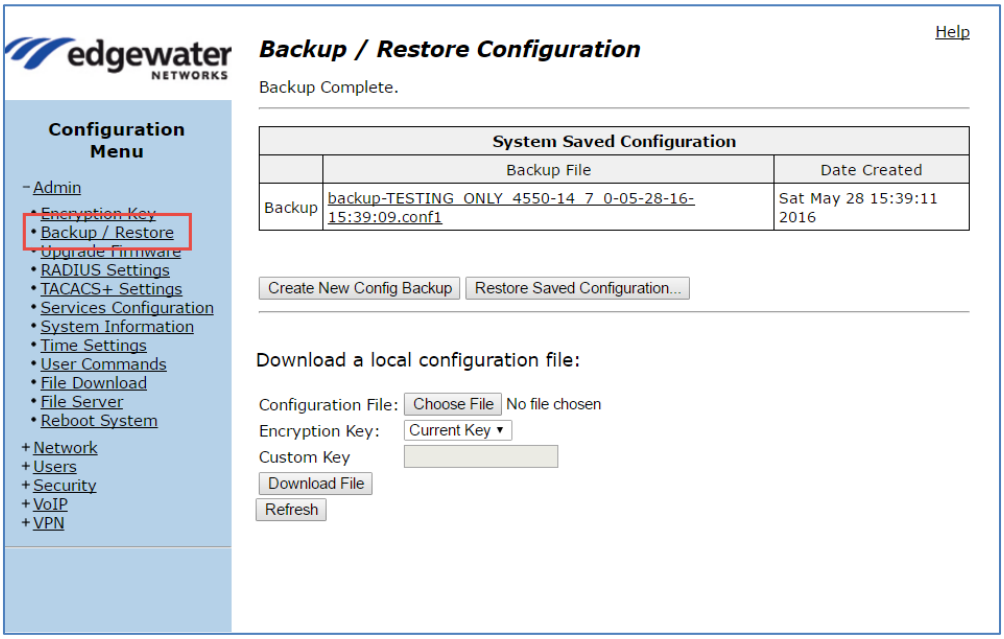
Goal

Outline the ways to save and restore an EdgeMarc configuration from the GUI and from the Command Line Interface (CLI).

Solution

GUI Method

It is now possible to create a Backup / Restore file from the GUI.
Go to **Admin -> Backup / Restore**.



1. Click on ‘Create a New Config Backup’. A Backup file will be created with a link to it. Click on the link and it will open a notepad session on your PC. You can then save the file to your local drive.

   Note: It is good practice to keep a good working copy of the configuration to your local drive. Before upgrading the EdgeMarc, it is also recommended that you first make a backup of the configuration and save the file to your desktop.

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2. When you clicked on the ‘Create a New Config Backup’, a copy of the backup file was created and saved on the EdgeMarc itself. If you need to restore the EdgeMarc, you can click on the ‘Restore Saved Configuration’ button, and it will restore the save configuration.
3. If you need to load a config file from your PC, you can choose the ‘Download file’ button to load a file from your PC onto the EdgeMarc. You would still have to select the ‘Restore’ button to load that configuration and apply it to the EdgeMarc.

CLI Method

Note: Restoring the configuration on a different EdgeMarc is only supported if the EdgeMarc is the **exact model** and running the **same version of VOS** as the original EdgeMarc where the backup file originated from.

The EdgeMarc Series stores all configuration information for the system in a series of individual files that reside in local flash memory. These files are read at boot time to determine the configuration identity of the EdgeMarc Series and then stored in RAM as “running” state. As you configure the EdgeMarc Series the *submit* command writes the configuration changes to both RAM and flash so that the files stored in flash are always up to date with the running state of the system.

The EdgeMarc Series provides a utility that enables you to copy the individual configuration files stored in flash to a single, consolidated backup file. This single file can then be used as a backup for the entire system and restored at a later date if necessary. Multiple backup files with different system configurations can also be created and stored locally in the EdgeMarc Series or on remote TFTP servers.



PLEASE note: No more than 2 backup files can be stored in the EdgeMarc Series’s flash due to size constraints. Also, it is recommended that you create a backup file after any configuration changes are made to the EdgeMarc Series. This is to prevent the loss of any configuration changes made since your last backup in the event that you must restore the system configuration.

Backup file operations are performed in the EdgeMarc Series CLI using the **ewn** command.

The ewn Command

The syntax for the ewn command is as follows:

USAGE:

```
ewn help|list
ewn save|load|delete [file name]
ewn upload|download [file name] [ip address]
```

where file name must use extension .conf1 or .conf2

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The **ewn** command can be used with a local terminal connection or remotely using SSH.

A. Use a NULL modem cable to connect to serial port 1 of the EdgeMarc Series
B. Use a terminal emulator such as Hyperterminal set to a baud rate of 115200, 8, 1 and non (databits, stop bits and parity)

Alternatively, you can connect to the EdgeMarc Series remotely using SSH:

A. Logon as **root**
B. Enter the **password**

Once you are at the command prompt (bash#) you can create the backup file, store it to local flash, copy it to a remote TFTP server, copy it from a remote TFTP server, delete it, load it or list all available backup files.

Create a Backup File and Save in Local Flash

bash# **ewn save <filename>**

Saves the current running configuration.

Filename format (must use extension.conf1 or .conf2):
<filename1>.conf1
<filename2>.conf2

<filenameX> can be a combination of both letters and characters. For example, EWN30_041503.conf1 or location1_E30.conf2. Trying to use any other filename format will result in the error message: “EWN_ERROR_BAD_FILE_NAME”.

NOTE: Between 9.12.x branch and 11.6.x branch, the formatting of .conf1 or .conf2 files had a minor change. In 9.12.x branch, empty configuration files were followed by an empty line while in 11.6.x branch, the empty line was removed. Due to this change, you will require an EdgeView patch to address an issue with config-push feature. See example below.

9.12.x.
FILE:/etc/config/mgmt_hosts.conf

FILE:/etc/config/mgmt_if.conf MGMT_ENABLE=on

11.6.x
FILE:/etc/config/mgmt_hosts.conf
FILE:/etc/config/mgmt_if.conf MGMT_ENABLE=on

WARNING: The “.conf” extensions have special significance. If you save a configuration with <filename-new>.conf1, then any existing <filename-old>.conf1 will be overwritten with the new one.

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Copy a Backup File to a Remote TFTP Server

bash# **ewn upload <filename> <tftp server IP Address>**
Copy a backup file from the EdgeMarc Series to a TFTP Server.

Download a Backup File from a Remote TFTP Server

bash# **ewn download <filename> <tftp server IP Address>**
Download a backup file from a TFTP server to the EdgeMarc.

NOTE: You can also use FTP or WINSCP (independent of ewn command) to move configuration files to and from /etc/config/ directory.

List the Available Backup Files

bash# **ewn list**
List all backup files stored in FLASH. If no file has been saved, the command will only return the bash# prompt.

Delete a Backup File

bash# **ewn delete <filename>**
Delete the backup file specified in the filename.

Load a Backup File so that it Becomes the Running Configuration

bash# **ewn load <filename>**
Loads the specified backup file into RAM and makes it the active running configuration.

WARNING: Issuing this command will automatically restart the EdgeMarc Series and therefore interrupt any active voice calls and data sessions.

For advanced configurations and debugging, contact Edgewater Networks Technical Assistance Center at support@edgewaternetworks.com or call 408.351.7255.

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