Lab1

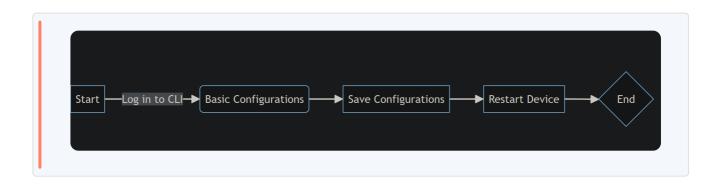
1 Lab1 Huawei VRP and Configuration Basics

1.1 Lab Configuration Overview

• Steps:

- 1. Configure device name and interface IP.
- 2. Save configurations.
- 3. Restart the device.

1.2 Configuration Roadmap



1.3 Basic Device Configurations

1.3.1 Step-by-Step Guide

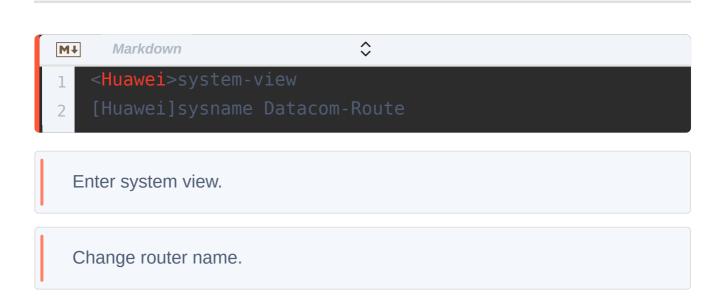
1.3.1.1 Step 1: Logging In

Access the Command Line Interface (CLI) through the console port.

1.3.1.2 Step 2: Displaying Basic Info



1.3.1.3 Step 3: Setting Up Basic Configurations



1.3.1.4 Interface IP Configuration



1.3.1.5 Undo Configuration



1.3.1.6 Keys

tab: When typed into the CLI, pressing the Tab key can autocomplete commands or list available commands if there's more than one option.

?: prompts the user for additional information or indicates an error or unknown command in the network simulation environment.

[Datacom-Router]inter? interface

<cr> : Stands for "Carriage Return" and is often shown in command-line help to indicate that you should press the Enter key to execute the command as it is.

1.3.1.7 Display and navigation

display this: Displays the configuration of the current module/view you're in. For instance, if you're in a specific interface configuration view, it would display the settings for that interface.

```
[Datacom-Router-GigabitEthernet0/0/1]dis this
#
interface GigabitEthernet0/0/1
  ip address 192.168.100.1 255.255.255.0
#
return
```

quit: Exits from the current mode or goes back one level in the command hierarchy (e.g., from interface configuration mode back to global configuration mode).

display current-configuration: to review settings.

```
sysname Datacom-Router

#
aaa
authentication-scheme default
authorization-scheme default
accounting-scheme default
domain default
domain default_admin
local-user admin password cipher OOCM4m($F4ajUn1vMEIBNUw#
local-user admin service-type http

#
firewall zone Local
priority 16
#
interface Ethernet0/0/0
```

1.3.1.8 Basic startup

compare configuration: This command allows you to compare the current running configuration with another saved configuration file to see what changes have been made.

dir: Lists the contents of a directory on a file system, such as flash memory.

```
Directory of flash:/
                Size(Byte) Date
  Idx Attr
                                          Time
                                                     FileName
                             Aug 07 2015 13:51:14
      drw-
                                                     src
                         - Apr 09 2024 23:06:50
- Apr 09 2024 23:06:56
                                                     pmdata
      drw-
                                                     dhcp
                         28 Apr 09 2024 23:06:56
       -rw-
                                                     private-dat
                             Apr 09 2024 23:22:01
       drw-
                                                     mplstpoam
32,004 KB total (31,994 KB free)
```

configuration file The filename extension of a configuration file must be .cfg or .zip

system software The filename extension of system software must be .c

startup saved-configuration: This might not be a valid Huawei command as written; however, if referring to viewing startup configurations, it would typically be something like display startup-config , which shows you the saved startup configuration that will be used upon next boot.

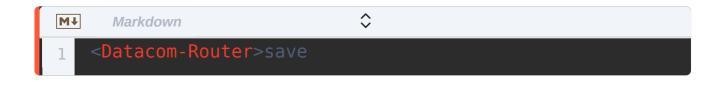
display startup: This is another way to show the system's startup configuration file—what has been saved and will be loaded upon next restart.

```
MainBoard:
Configured startup system software:
Startup system software:
NULL
Next startup system software:
NULL
Startup saved-configuration file:
Null
Next startup saved-configuration file:
Null
Startup paf file:
Null
Next startup paf file:
Null
Startup license file:
Null
Startup patch package:
Null
Next startup patch package:
Null
Next startup patch package:
Null
```

reset saved-configuration: Deletes the current saved configuration so that when you reboot, it will start with default settings (be very careful with this command as it erases your saved setup).

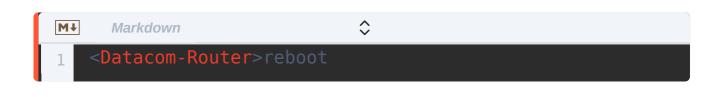
Important: After reset saved-configuration, ensure that you save your desired startup configuration before rebooting.

1.3.1.9 Step 4: Saving Configurations



Save current configuration after confirmation.

1.3.2 Restart Procedure



Command for restarting the device.

1.4 Function Keys Table

Key	Function
Ctrl+A	Moves cursor to beginning of line
Ctrl+B	Moves cursor back one character
Ctrl+C	Stops current functions
Ctrl+D	Deletes character at cursor
Ctrl+E	Moves cursor to end of line
Ctrl+F	Moves the cursor forward one character
Ctrl+H	Deletes the character to the left of the cursor
Ctrl+K	Terminates the connection of an outgoing call during connection establishment.
Ctrl+N or Down Arrow Key	Displays the next command in the command history.
Ctrl+P or Up Arrow Key	Displays the previous command in the command history.
Ctrl+T	Enters a question mark (?).

Key	Function
Ctrl+W	Deletes the character string (word) to the left of the cursor
Ctrl+X	Deletes all characters on the left of the cursor
Ctrl+Y	Deletes the character at the cursor and all characters to the right
Ctrl+Z	Returns to user view
Ctrl+]	Stops or redirects incoming connections
Esc+B	Moves the cursor back one character string (word)
Esc+D	Deletes one character string (word) to the right of the cursor

in my version of Ensp most of the shortcuts don't working