

## Command-Line Interface

<https://campus.barracuda.com/doc/48202944/>

The command-line interface (CLI) is a powerful tool for executing commands and scripting on the Barracuda NextGen Firewall F-Series. Be aware that incorrect manual inputs can harm your system. The instructions in the CLI articles should be followed only by an expert admin user or as advised by [Barracuda Networks Technical Support](#). To open the CLI, you can either log in from the **SSH** page in Barracuda NextGen Admin or use your favorite SSH client to connect to the management IP address of the Barracuda NextGen Firewall F-Series. Use the **root** username and password to authenticate.

How to Use the CLI - General Instructions	Tools and Commands
These articles describe the general structure and provide detailed instructions on all the operations that are manageable through the CLI.	These articles describe the commands and provide a range of useful examples to help you understand the CLI.
<ul style="list-style-type: none"> <li>• <a href="#">Configuration Files and Tree</a></li> <li>• <a href="#">Maintaining Recipient Databases</a></li> <li>• <a href="#">How to Create PAR or PCA Files on the Command Line</a></li> <li>• <a href="#">How to Perform a Release Check</a></li> <li>• <a href="#">How to Configure SSH</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">phionctrl</a></li> <li>• <a href="#">acpfctrl</a></li> <li>• <a href="#">phion</a></li> <li>• <a href="#">Dynamic Network Start and Stop Scripts</a></li> <li>• <a href="#">mailctl</a></li> <li>• <a href="#">showbdb</a></li> <li>• <a href="#">statcheck</a></li> <li>• <a href="#">vpnadminctl</a></li> <li>• <a href="#">ktinactrl</a></li> <li>• <a href="#">admintcpdump</a></li> <li>• <a href="#">conftool</a></li> <li>• <a href="#">phibstest</a></li> <li>• <a href="#">phionar and conftool</a></li> <li>• <a href="#">phionrcscleanup</a></li> <li>• <a href="#">Linux Networking Commands</a></li> </ul>

## Requirements

The following items are required in order to access the CLI:

- A console attached to the Barracuda NextGen Firewall F-Series or SSH access. For information on how to configure serial access, see [How to Enable System Access via Serial Console](#).
- An authorized user ID (root) and corresponding login password.
- The Barracuda NextGen Firewall F-Series IP or DNS name.
 

Shell access must be configured. An administrator does not actually have shell access in multi-administrator environments.
- An SSH client, for example PuTTY for Microsoft Windows® or SSH for Linux/Unix. (The SSH daemon runs on the Barracuda NextGen Firewall F-Series. For more information, see [How to Configure SSH](#).)

- Barracuda NextGen Admin.

## Debug Command-Line Interface

A special type of command-line interface is accessible during the boot process. It is based on the *busybox* tool and allows you to perform a broad variety of standard debug and maintenance tasks in the Linux-based Barracuda OS.

To enter the debug command-line interface:

1. Press any key in the serial console when prompted during the boot process.
2. Select item **2 - Open Shell** from the ART boot menu.

```
[ 7.31000] sd 4.0.0.0. [sub] Attached s
[ 7.466846] Clocksource tsc unstable (de
[ 7.500349] Switching to clocksource jif
Loading pata_acpi module
Loading ata_generic module
+++ press any key to enter ART +++
Options:
1) Enter ART console
2) Open shell
q) Quit and continue boot sequence
ART>#
```

3. Now you may issue any *busybox* command you wish. The commands are directly linked; therefore, it is not necessary to prefix them with *busybox*

For more information about the command set available in *busybox*, see <http://www.busybox.net/>.

For general information about Linux CLI commands, see also [Linux Networking Commands](#).

## Figures

1. cli.png

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