

phionar and conftool

<https://campus.barracuda.com/doc/41116383/>

To back up and save the configuration of the Barracuda NG Firewall, use the *phionar* and *conftool* utilities. You have the option of compressing or encrypting PAR files. Encrypted archive files can be created for Barracuda NG Firewalls and NG Control Centers version 6.0.1 or later.

phionar

Create and maintain archive files by using *phionar*. Use the following syntax:

***phionar* <operations> file.par | .pca <source directory>/* <options>**

You can use the following operations:

Operations	Description
a	Adds specific files to an already existing archive. Use asterisks (*) to add all files in a directory to an archive.
c	Creates a new archive. Use asterisks (*) to add all files in a directory to an archive. Otherwise, specify the file names individually. You can use this operation in combination with the following options: <ul style="list-style-type: none"> • d — Adds whole directories and subdirectories to an archive. Without this option, only files found within the top level directory are added to the archive. • l — Preserves links. Without this option, links are treated as regular files. • p — Preserves all user and group information. If the p option is not used, the user executing the command takes over the ownership of the packed files. • v — Verbose option for printing a log of all performed steps to the standard output. This option is useful if an archive is not created as expected. • e — Aborts the action if an error occurs. • 2 — Creates an archive with large file support. (v2.0) • S - Slow write (delay). To create an empty archive, use the c operation without any options.
r	Removes files from an existing archive. The archive is not extracted. Use the correct file name. Otherwise, the file will not be deleted. To verify the file name, use the s operation.

x	Extracts single files from an existing archive. The files inside the archive will not be deleted. When extracting files from an archive, the leading ./ (dotslash) can be ignored. If the archive contains that specific file, the file is extracted.
k	Marks files or whole folders in an archive as deleted. Extracting a file that has been marked as deleted will delete a file of the same name in the target directory. Make sure that you use the correct file name, including a leading ./ (dotslash). To verify the file name, use the s operation.
s	Displays the archive contents.
E	Encrypt a PAR file. Requires -P (password set manually) or -Q (password set to serial number).
D	Decrypt a PCA file. Requires -P (password set manually) or -Q (password set to serial number).
Options	Description
-X or --exclude [pattern]	Defines skip patterns. Use when specifying a file name or pattern.
-P [password]	Set the password for the encrypted PAR file. Encrypted PAR files use the PCA extension.
-Q	Use the serial number as the password. This option cannot be used on pool-licensed, virtual Barracuda NG Firewalls.

Example Usage

The following sections provide examples of how to use the *phionar* command to create and maintain archives.

• Creating PAR Files

- In the */tmp* directory, create an archive named *box.par* that includes all files from the */opt/phion/config/configroot* directory and subfolders.

```
[root@NGFW:/tmp]# phionar cd box.par /opt/phion/config/configroot/*
```
- Display the contents of the newly created *box.par* archive.

```
[root@NGFW:/tmp]# phionar s box.par f 143 100644 0 0 /opt/phion/config/configroot/1 d 0 040755 0 0 /opt/phion/config/configroot/LostAndFound d 0 040755 0 0 /opt/phion/config/configroot/LostAndFoundGCSID_procp ar f 136 100600 0 0 /opt/phion/config/configroot/boxnet.desc f 129 100644 0 0 /opt/phion/config/configroot/boxnet.param d 0 040755 0 0 /opt/phion/config/configroot/boxother f 139 100600 0 0 /opt/phion/config/configroot/boxother.desc f 129 100644 0 0 /opt/phion/config/configroot/boxother.param
```
- (optional) Adding a file (e.g., */opt/phion/config/active/box.conf*) to the existing *box.par*:

```
[root@NGFW:/tmp]# phionar a box.par
/opt/phion/config/active/box.conf
```

- **Creating PCA Files (Encrypted PAR Files)**

Create an encrypted PCA archive by using a manually set password (default):

```
[root@NGFW:/tmp]# phionar cdI -E box.pca /opt/phion/config/configroot/*
```

Create an encrypted PCA archive by using the serial number as the password. Do not use on pool-licensed, virtual Barracuda NG Firewalls. PCA files created with the **-Q** option can be deployed on the Barracuda NG Firewall with that serial number without having to enter the password.

```
[root@NGFW:/tmp]# phionar cdI -E -Q box.pca
/opt/phion/config/configroot/*
```

- **Removing and Extracting Files**

1. Verify the names of the files in the *box.par* archive.

```
[root@NGFW:/tmp]# phionar s box.par f 13 100644 0 0 ./boxadm.param
f 19 100644 0 0 ./boxkey.conf f 14 100644 0 0 ./boxkey.param f 4
100600 0 0 ./box.par d 0 040755 0 0 ./tmp f 12 100644 0 0
./tmp/box.desc f 13 100644 0 0 ./tmp/boxadm.desc f 15 100644 0 0
./tmp/boxkey.desc
```

2. Remove all of the *./tmp* files.

```
[root@NGFW:/tmp]# phionar r box.par ./tmp ./tmp/*
```

3. Verify that the *./tmp* files have been removed.

```
[root@NGFW:/tmp]# phionar s box.par f 13 100644 0 0 ./boxadm.param
f 19 100644 0 0 ./boxkey.conf f 14 100644 0 0 ./boxkey.param f 4
100600 0 0 ./box.par
```

4. Extract files that begin with *box**.

```
[root@NGFW:/tmp]# phionar x box.par box*
```

5. Check the */tmp* directory to verify that the *box** files have been extracted.

```
[root@NGFW:/tmp]# ls -l -rw-r--r-- 1 root root 13 Nov 14 16:33
boxadm.param -rw-r--r-- 1 root root 19 Nov 14 16:33 boxkey.conf -
rw-r--r-- 1 root root 14 Nov 14 16:33 boxkey.param -rw----- 1
root root 359 Nov 14 16:31 box.par
```

6. Mark the *./boxadm.param* file as deleted.

```
[root@NGFW:/tmp]# phionar k box.par ./boxadm.param
```

7. Verify that the *./boxadm.param* file has been marked as deleted.

```
[root@NGFW:/tmp]# phionar s box.par R 0 000000 -1 -1 ./boxadm.param
f 19 100644 0 0 ./boxkey.conf f 14 100644 0 0 ./boxkey.param
```

- **Excluding Files Using Skip Pattern**

The following table displays an example of how to define skip patterns.

```
[root@NGFW:/tmp]# phionar a box.par -X myarchive0.par
/opt/phion/config/configroot/box.conf
```

- **Decrypting PCA Files with *phionar* or *openssl***

Decrypt a PCA archive file by using *phionar* on the Barracuda NG Firewall or NG Control Center:

```
[root@NGFW:/tmp]# phionar D -P YOURPASSWORD box.pca box.par
```

Decrypt a PCA archive file using *openssl*.

```
[root@LinuxHost:/tmp]# openssl enc -d -aes-256-cbc -pass
pass:YOURPASSWORD -in myarchive.pca -out box.par
```

- **Unpacking PGZ Files**

You can unpack a compressed PGZ archive on the command line:

```
[root@NGFW:/tmp]# zcat box.pgz > box.par
```

conftool

To create PAR files for Barracuda NG Firewalls in a range or cluster of a Barracuda NG Control Center, use the *conftool* command. Use the following syntax:

conftool par [range_cluster] <output-directory>

Example Usage

This section provides examples of how to use the *conftool* command to create a range and cluster PAR file. The PAR files are saved to the */home/phion/CC-Boxes-PARs/* directory.

1. Create a PAR file for a range named *1*.

```
[root@MC-Morrigan:/home/phion/CC-Boxes-PARs]# conftool par 1  
/home/phion/CC-Boxes-PARs/ HQ-Perimeter-HA1 HQ-Perimeter-HA2 ISPs R0-  
Munich R0-Zurich
```

2. Create a PAR file for a cluster named *Headoffice* in a range named *1*.

```
[root@MC-Morrigan:/home/phion/CC-Boxes-PARs]# conftool par 1_Headoffice  
/home/phion/CC-Boxes-PARs/ HQ-Perimeter-HA1 HQ-Perimeter-HA2
```

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