Deployment process for Barracuda NG Firewalls

This document details the steps required to flash a Barracuda FW

Prep

- 1. Download required files
 - a. The Barracuda ISO: <u>https://www.jolera.com/files/GWAY-7.1.1-056.iso</u>
 - b. USB creation tool: <u>https://www.jolera.com/files/NGInstall_7.1.1-6.exe</u>
 - c. The PAR file: (Sent from Jolera via email)
- 2. Locate the blue USB stick included with the Barracuda firewall
- 3. Ensure you have the power cable for the firewall ready
- 4. (Optional) Ensure you have a serial cable and a terminal only needed if you want to monitor the flashing process

Create the USB key

1. Insert the blue USB stick in to the computer



2. Find the stick in Explorer, right click on it, and select Format

3. Click Start

Format PHIONINST (D:) X
Capacity:
3.75 GB 🗸
File system
FAT32 (Default) \checkmark
Allocation unit size
4096 bytes \checkmark
Restore device defaults
Volume label
Volume label PHIONINST
Volume label PHIONINST Format options
Volume label PHIONINST Format options Quick Format
Volume label PHIONINST Format options Quick Format
Volume label PHIONINST Format options Quick Format

- 4. Click "Close" to close the format window
- 5. Run the NGInstall Executable

6. Select "Auto Install" and hit Next



olumes Disk Type	SCSI/SA	TA/SAS 🗸	Fixed Disk Car	pacity	GB	Suggest
blart Type	0001/0A	11/ 3/13	Usable disk	space	ab	ouggost
Partition		Size (MB)	Disk	FS-Type		Grow
	0	Dial				
Size	0	Disk change	v al	Filesystem		✓ gro
Size	0 *	Disk change	→ all	Filesystem		 ✓ gro
Size	0	Disk Change	e all	Filesystem		∨ gro

7.

8. Select the USB drive, and hit next

Barracuda NG Installer				×
Script Settings				
Installation scripts				
Preinstallscript	Modify			
Postinstallscript	Modify			
Installation-script files				
Write USB flash drive	Yes		\sim	
Save to	D:\		V Refr	esh
Box public key				
Save to Disk				
Enter in Registry				
		< Back	Next >	Cancel

9. Click the "Import" button next to "Image" and then click "Copy ISO Image"

Barracuda NG Installer	×
USB Flash Drive Settings	
Installation Mode Settings	
Unattended Installation Yes	
Enable serial console	
Format USB flash drive	
Software and Configuration Image PAR Files Patches Copy ISO image K Next >	Cancel
Open	×
← → ~ ↑ 🕹 > This PC > Downloads 🗸 🖸	Search Downloads
Organize 🔻 New folder	i≡ ▼ III ?
	Date 10/19/2016 1:27 PM 10/24/2016 2:53 PM 1/27/2017 4:42 PM
GWAY-7.0.1-090	
► Pictures 🖈)
File name: GWAY-7.0.1-090	ISO images (*.iso) ~

>

11. Click the Modify Button next to "PAR Files"

Barracuda NG Installer

-

USB Flash Drive Settings	
Installation Mode Settings Unattended Installation Yes Enable serial console Format USB flash drive	~
Software and Configuration Image PAR Files Patches Modify	
	< Back Next > Cancel

 \times

12. Click the "Import" button

USB Flas	h Drive Settings	
Installat	Configuration Archive Files X	
Unatt	PAR Files which will be copied on the USB flash drive	
Enabl	Delete	
Forma	Import	
Softwar		
lmage		
PAR		
Patch		
	Close	
L		
	C Back Next >	Cancel

13. Local the PAR file and hit Open

\times Open > This PC > Downloads Search Downloads √ Q ተ Organize 🔻 New folder **H** 2 Date Name 📌 Quick access nvidialnspector 10/19/2016 1:27 PM 🔜 Desktop * Rain-Demo2 10/24/2016 2:53 PM 🖶 Downloads * CMC_M1000e_5.21_A00 1/27/2017 4:42 PM 🔮 Documents 🖈 box.par 12/7/2016 12:17 AM Pictures * archive.par 12/7/2016 12:18 AM 🔥 460 Richmon 🖈 ¥ ۲ > All configuration archive files (* \sim File name: box.par \sim Open Cancel

14. Confirm that the PAR is now listed, and hit close

	Configuration Archive Files	····, ····	×	
	PAR Files which will be copied	on the USB flash d	lrive	
	box.par		Delete Import	
15. (Click Next		Close	
	Barracuda NG Installer			×
	USB Flash Drive Setting	js		
	Installation Mode Settings			
	Unattended Installation	Yes	\sim	
	Enable serial console			
	Format USB flash drive			
	Software and Configuration	1		
	Image	Import		
	PAR Files	Modify		
	Patches	Modify		
			< Back Next >	Cancel

16. Click Finish

Barracuda NG Installer	×
Finished The wizard now has enough information to create the kickstart file. Click Back to make any changes before continuing.	
Installation Mode: Automatic Installation USB flash drive Save to:	^
Format USB flash drive: no	
<	>
< Back Finish	Cancel

17. Wait for the process to complete

Please wait	×
Time remaining: 01:45	Cancel

18. Click OK to complete

Barracuda NG Installer

Finished

The wizard now has enough information to create the kickstart file. Click Back to make any changes before continuing.

Installation Mode: Automa Save to: D:\	tic Installation USB flash drive		^
Format USB flash no	NGInstall_7.0.1-1	×	
	Configuration files written successfully	<i>ı</i> .	
-	ОК		~
	< Back Fi	nish	Cancel

×

19. If you wish, you can confirm the USB stick was created successfully

1	Name	Date modified	Туре	Size	
	appliance	3/28/2017 4:47 PM	File folder		
	🔊 autorun	3/28/2017 4:47 PM	Setup Information	1 KB	
l	💎 barracuda	3/28/2017 4:47 PM	lcon	95 KB	
	🖂 boot	3/28/2017 4:47 PM	Outlook Item	1 KB	
	📄 box.par	12/7/2016 12:17 AM	PAR File	439 KB	
	GWAY-7.0.1-090	2/6/2017 3:23 PM	Disc Image File	974,794 KB	
	initrd	3/28/2017 4:47 PM	Disc Image File	17,915 KB	
	🗋 syslinux.cfg	3/28/2017 4:45 PM	CFG File	1 KB	
	📄 vmlinuz	3/28/2017 4:47 PM	File	3,448 KB	

20. Eject the Stick

Flashing the firmware + config on to the firewall

- 1. Plug the newly created USB stick in to a USB port on the back of the firewall
- If you wish, you can plug a serial terminal in to the console port on the firewall. (9600-8-n-1, usually, but some models are 19200.)
- 3. Plug the firewall power cable in, and hit the power button
- 4. Firewall will start up, and you should see the red activity light on the USB stick blinking
- 5. If you have a serial console plugged in you'll see progress indication
- 6. Wait for the firewall to complete the flashing process. It will chirp when it is finished, and show a completed message on the serial terminal. Should take ~10 minutes.
- 7. Wait 10 seconds
- 8. Unplug the power cable
- 9. Unplug the USB stick
- 10. The firewall is now ready for deployment

Connect the Firewall

- 1. Unplug the cable from the Cisco's 0/0 port and plug it in to port4 on the Barracuda
- 2. Unplug the cable from the Cisco's 0/1 port and plug it in to port1 on the Barracuda
- 3. Plug in the power cable
- 4. Power up the Barracuda
- 5. Wait 5-10 mins and test connectivity