Ubiquiti WIM AP Staging Guide

REQUIRED ITEMS:

- Latest version of the autoInstallViasat.zip file
- Ubiquiti WIM AP (note AP must be factory reset before beginning the software installation process)
- Laptop with internet connection and RJ45 ethernet port.
- 2 Ethernet cords
- Something thin (like a paperclip) to reset the AP
- A working outlet with steady power

1.	Open a web browser and				
ĺ	navigate to	Python PSF	Docs F	yPl Jobs	Community
	https://www.python.org/downl	I m			
	oads/release/python-379/	🤁 python"	Donate	Search	GO Socialize
		About	Downloads	Docum	entation
		Community	Success Stories	News	Events
		Python 3.7.9			
		Release Date: Aug. 17, 2020			
		Python 3.7.9 is the latest security fix release of P	ython 3.7.		
		Note			
		Python 3.8 is now the latest feature release series	of Python 3. Get the latest n	elease of 3.8.x here. Python 3.7.8	vas the last bugfix
		release for 3.7. Python 3.7 is now in the security f during this phase. We plan to provide security fixe	s for Python 3.7 as needed u	r security-related issues are accep ntil mid 2023, five years following	ted and addressed its initial release.
		Security fix releases are produced periodically as	needed and are source-only	y releases.	
2.	Scroll to the files section of the				
	page and select the "executable installer" file that corresponds	Files			
	to your operating system.	Version	Operating	Description	MD5 Sum
		VEISION	System	Description	MD5 Sull
		Gzipped source tarball	Source release		bcd9f22cf531e
		XZ compressed source tarball	Source release		389d3ed26b4d
		macOS 64-bit installer	Mac OS X	for OS X 10.9 and later	4b544fc0ac8c3
		Windows help file	Windows		1094c8d9438a
		Windows x86 64 embeddable	Windows	for	60f77740b3003
		zin file	WINDOWS	AMD64/FM64T/x64	001114003000
		Windows OC Compatibility	Min dama	for	70026-4512-2-
		installer	windows	AMD64/EM64T/x64	7083160513630
		Windows x86-64 web-based	Windows	for	da0b17ae84d6
		installer		AMD64/EM64T/x64	
		Windows x86 embeddable zir	Windows		97c6558d479d
		file	Mildons		570035047750
		Windows 200 second bits	un da		1-0421-00-00
		windows x86 executable	windows		1600310980680
		installer			
		Windows x86 web-based	Windows		22f68f09e533c
		installer			

3.	Navigate to your downloads folder and double click the downloaded python file. The Python 3.7.9 installer will appear.	 ↓ ↓ Downloads ↓ ↓ This PC → Downloads ↓ ↓ ↓ This PC → Downloads ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
4.	Make sure both "Install launcher for all users (recommended)" and "Add Python 3.7 to PATH" are selected.	 Python 3.7.9 (64-bit) Setup Install Python 3.7.9 (64-bit) Select Install Now to install Python with default settings, or choose Customize to enable or disable features. Install Now C:\Users\\Lcummings\AppData\Local\Programs\Python\Python37 Includes IDLE, pip and documentation Creates shortcuts and file associations Customize installation Choose location and features Install launcher for all users (recommended) Add Python 3.7 to PATH Cancel
5.	Click Install Now.	 Python 3.7.9 (64-bit) Setup – C × Install Python 3.7.9 (64-bit) Select Install Now to install Python with default settings, or choose customize to enable or disable features. Install Now C\Users\Loummings\AppData\Local\Programs\Python\Python37 Indudes IDLE, pip and documentation Creates shortcuts and file associations Customize installation Choose location and features Install launcher for all users (recommended) Add Python 3.7 to PATH

5.	Installation will begin.	
		Python 3.7.9 (64-bit) Setup
6.	When the installation is complete, a "Setup was successful" screen will appear.	 Python 3.7.9 (64-bit) Setup Setup was successful Special thanks to Mark Hammond, without whose years of freely shared Windows expertise, Python for Windows would still be Python for DOS. New to Python? Start with the online tutorial and documentation. See what's new in this release. Disable path length limit Changes your machine configuration to allow programs, including Python, to bypass the 260 character "MAX_PATH" limitation.
7.	After the installation is complete, restart your computer .	Adobe Acrobat DC Adobe Acrobat Distiller DC Sleep Shut down Restart Adobe Creative Cloud Adobe Illustrator 2021 Image: Cloud Adobe Illustrator 2021 Image: Cloud Adobe Illustrator 2021 Image: Cloud Adobe Illustrator 2021

8.	After your computer is		
	rebooted, open Command	All Apps Documents Web More 🕶	æ
	Prompt.	A Best match	
		Command Prompt	
		App La	_
		Settings	Command Prompt
		Windows PowerShell when using	Арр
		Search work and web	□ ² Open
		Critid - See work and web results	C Run as administrator
			Open file location
			- Pin to start
		0	
		, ∽ cmd	
		# ρ	
9.	In the Command Prompt		
	window, type <i>pip3 list</i> and press	Command Prompt	– 🗆 ×
	not the paramike module is	Microsoft Windows [Version 1	0.0.17763.1518]
	installed	(c) 2018 Microsoft Corporati	on. All rights reserved.
	instance.	C:\WINDOWS\system32>pip3 lis	t
			~
10.	If you see paramiko listed (as		
	shown to the right), proceed to	Command Prompt	
	step 12.	Microsoft Windows [Version	10.0.17763.1518]
		(c) 2018 Microsoft Corpora	ation. All rights reserved.
		C.\WINDOWS\system32\pip3]	ict
		Package Version	
		bcrypt 3.2.0	
		cryptography 3.2.1	
		paramiko 2.7.2	
		pip 20.1.1	
		PyNaCl 1.4.0	
		setuptools 47.1.0	
		six 1.15.0	

11.	If you do not see paramiko listed, type <i>pip install</i> <i>"paramiko==2.7.2"</i> and press Enter. When the installation is complete, Command Prompt will display "successfully installed paramiko – 2.7.2" as shown.	<pre>Microsoft Windows [Version 10.0.17763.1518] (c) 2018 Microsoft Corporation. All rights reserved. C:\WINDOWS\system32>pip3 list Package Version pip 20.1.1 setuptools 47.1.0 WARNING: You are using pip version 20.1.1; however, version 20.2.4 is available. You should consider upgrading via the 'c:\users\lcummings\appdata\local\programs\python\python37 C:\WINDOWS\system32>pip install "paramiko=2.7.2" Collecting paramiko=2.7.2-py2.py3-none-any.whl (206 kB) Downloading paramiko=2.7.2-py2.py3-none-any.whl (206 kB) Downloading paramiko=2.7.2-py2.py3-none-any.whl (206 kB) Downloading paramiko=2.7.2-py2.py3-none-any.whl (206 kB) Downloading prymacl>=1.0.1 Downloading pyNaCl=1.4.0-cp37-cp37m-win_amd64.whl (206 kB) Downloading cryptography>=2.5 Downloading cryptography>=3.2.1-cp37-cp37m-win_amd64.whl (1.5 MB) Downloading cryptography>=3.2.0-cp36-abi3-win_amd64.whl (28 kB) Collecting cffi>=1.4.1 Downloading cffi>=1.14.3-cp37-cp37m-win_amd64.whl (178 kB) Downloading six-1.15.0-py2.py3-none-any.whl (10 kB) Collecting six Downloading six-1.15.0-py2.py3-none-any.whl (10 kB) Collecting pycparser</pre>
		Downloading pycparser-2.20-py2.py3-none-any.whl (112 kB)
12.	Plug one end of an ethernet cord into the AP ethernet port.	

13.	Plug the other end of the ethernet cord into the POE port of the AP power brick and connect to a working power outlet.	
14.	Factory reset the AP by using a narrow object to press and hold the reset button until the status light turns off. This will take around 5 seconds. Let go of the Reset button once the status light turns off.	



±0.	Click Cliange adapter		
	settings/options.	Network and Sharing Center	– 🗆 X
	0, 1	\leftarrow \rightarrow · · · · · · · · · · · · · · · · · · ·	Search Control Panel
		Control Panel Home View your basic network information and s	set up connections
		View your active networks	
		Change advanced sharing corp.viasat.com	Access type: Internet
		settings Domain network	Connections: Cisco AnyConnect Secure Mobility Client Connection
		Pancakes 2 Public network	Access type: No Internet access Connections: at Wi-Fi 2 (Pancakes)
		Unidentified network Public network	Access type: No network access Connections: 💡 vEthernet (Default Switch)
		Change your networking settings Set up a new connection or network Set up a broadband, dial-up, or VPN connecti See also Infrared Internet Options Windows Defender Firewall	on; or set up a router or access point. : troubleshooting information.
19	Right click the Ethernet		
	connection that is plugged into	Vetwork Connections	×
	the AD Coloct "Droportios"	← → < ↑ 🕼 « All Control Panel Items → Network Connections → 🗸 Č	Search Network Connections
	the AP. Select Properties.	Organize Disable this network device Diagnose this connection Rename this cor	nnection »
		Bluetooth Network Connection 2 Cisco AnyConnect Secure Mobility	Ethernet 3
		Not connected Client Connection Bluetooth Device (Personal Area	pancakes Intel(R) Ethe Stable
		Ethernet 5 Network cable unplugged Vethernet (Default Switch) Unidentified network	Wi-Fi 2 Status Pancakes 2 Diagnose
		X TAP-Windows Adapter V9 Wirtual Ethernet Adapter	Intel(R) Dual Signature Bridge Connections
			Create Shortcut
		6 items 1 item selected	Sepame
20	From the list of connection		
20.	From the list of connection	Ethernet 3 Properties	×
	Items, select internet Protocol	Networking Sharing	
	Version 4 (TCP/IPv4) and click	o la	
	Properties.	Connect using:	
		Intel(R) Ethemet Connection I219-LM #2	2
			Configure
		This connection uses the following items:	Configure
		This connection uses the following items:	Configure
		This connection uses the following items: Image: Second	Configure
		This connection uses the following items: Image: Second	Configure
		This connection uses the following items: File and Printer Sharing for Microsoft M QoS Packet Scheduler Bridge Driver Internet Protocol Version 4 (TCP/IPv4	Configure
		This connection uses the following items:	Configure
		This connection uses the following items:	Configure
		This connection uses the following items: File and Printer Sharing for Microsoft N Gos Packet Scheduler File Bridge Driver Marcosoft Network Adapter Multiplexor Microsoft Network Adapter Multiplexor Microsoft LLDP Protocol Driver Internet Protocol Version 6 (TCP/IPv6 C	Configure
		This connection uses the following items:	Configure
		This connection uses the following items:	Configure letworks
		This connection uses the following items: File and Printer Sharing for Microsoft N GoS Packet Scheduler GoS	Configure
		This connection uses the following items:	Configure letworks Protocol Properties Col. The default mmunication
		This connection uses the following items:	Configure letworks
		This connection uses the following items: File and Printer Sharing for Microsoft N Gos Packet Scheduler Gos Packet Scheduler Gos Packet Scheduler Microsoft Network Adapter Multiplexor Microsoft Network Adapter Multiplexor Microsoft LLDP Protocol Driver Microsoft LLDP Protocol	Configure letworks

21.	Select Use the following IP	
	address and type the following:	Internet Protocol Version 4 (TCP/IPv4) Properties ×
	ID address: 102 168 1 254	General
	Subpot mark: 255 255 255 0	
	Default Gateway: Leave blank	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
	Click OK.	 Obtain an IP address automatically Use the following IP address: IP address: IP2.168.1.254 Subnet mask: 255.255.255.0 Default gateway: . Obtain DNS server address automatically Obtain DNS server addresses: Preferred DNS server: . Alternate DNS server: . Validate settings upon exit Advanced
22.	From the network and sharing center, disable all network adapters (including Wi-Fi) other than the Ethernet connection to	
	the AP. To turn off Wi-Fi, right click, then select Disable.	Bluetooth Network Connection 2 Not connected Bluetooth Device (Personal Area Wie Ethernet 3 Network cable unplugged Intel(R) Ethernet Connection 121: Wie Vethernet (Default Switch) Unidentified network Hyper-V Virtual Ethernet Adapter Wie Pancakes 2 Intel(R) Dual Ba Windertified Retwork Hyper-V Virtual Ethernet Adapter

23.	To ensure that only the AP is connected, type the following in command line, then press enter. <i>ipconfig /all find "192.168.1"</i> You should only see one connection (IPv4), as displayed here. If you see more than one connection (such as Default Gateway, DHCP Server), return	<pre>Command Prompt Microsoft Windows [Version 10.0.17763.1518] (c) 2018 Microsoft Corporation. All rights reserved. C:\WINDOWS\system32>ipconfig /all find "192.168.1" IPv4 Address : 192.168.1.254(Preferred) Command Prompt Microsoft Windows [Version 10.0.17763.1518] (c) 2018 Microsoft Corporation. All rights reserved. C:\WINDOWS\system32>ipconfig /all find "192.168.1" IPv4 Address : 192.168.1.145(Preferred) Default Gateway : 192.168.1.145(Preferred) Default Gateway</pre>
	to the previous step.	
24.	Locate the autoInstallViasat.zip file on your computer. Right click the file and select Extract All.	Name Date modif autoInstallViasat 2 Open Open in new window Extract All 7-Zip CRC SHA Date modif
25.	Select a location for the extracted files and click Extract.	 Extract Compressed (Zipped) Folders Select a Destination and Extract Files Files will be extracted to this folder: C\USers\lcummings\Desktop\Ubiquiti Auto Upgrade Browse Show extracted files when complete

26.	In command prompt, type <i>cd</i> and press the space bar (there must be a space after "cd"), then drag and drop the folder containing the extracted files into command prompt, then press enter.	Command Prompt Command Prompt
27.	Command prompt should now display the location of the extracted files. (Verify that command prompt looks like the example photo)	Command Prompt - C X Microsoft Windows [Version 10.0.17763.1518] (c) 2018 Microsoft Corporation. All rights reserved. C:\WINDOWS\system32>cd "C:\Users\lcummings\Desktop\Ubiquiti Auto Install\autoInstallViasat 2"
28	Press Enter.	<pre>Command Prompt</pre>
29.	Type python autoUpgradeViasat.py then press enter. Note – if you have more than one version of Python installed, you will need to type python3 autoUpgradeViasat.py	C:\Users\lcummings\Desktop\Ubiquiti Auto Install\autoInstallViasat 2>python autoUpgradeViasat.py Recent initial version found with no mtd support - performing intermediate step. Starting intermediate upgrade!
30.	The install will begin. This will take 5-10 minutes to complete.	<pre>C Command Prompt</pre>

31.	When the program displays <i>"KeyboardInterrupt" (CTRL/C) to</i> <i>exit!</i> the status light on the AP will begin flashing. If an error occurs and	C:\Users\linux\Desktop\Ubiq_Coverage_Update\Final_package\test\autoUpgradeViasat>python3 autoUpgradeViasat.py Recent initial version found with no mtd support - performing intermediate step. Starting intermediate upgrade! Transferred file == 22,ca3950x.v3.r58.6385.170508.0957.bin successfully! Socket exception: An existing connection was forcibly closed by the remote host (10054) Interim step successful! Transferred file == openwrt-19.07.3-ath79-generic-ubnt_unifiac-mesh-squashfs-sysupgrade.bin successfully! Reboot issued, waiting until device comes back Openwrt generic load appears to have worked - device IP changed! Closing SSH client socket and transport. Starting custom image upgrade! Transferred file == openwrt-ath79-generic-ubnt_unifiac-mesh-squashfs-sysupgrade.bin successfully! Transferred file == openwrt-ath79-generic-ubnt_unifiac-mesh-squashfs-sysupgrade.bin successfully! Transferred file == openwrt-ath79-generic-ubnt_unifiac-mesh-squashfs-sysupgrade.bin successfully! Transferred file == openwrt-ath79-generic-ubnt_unifiac-mesh-squashfs-sysupgrade.bin successfully!
	"KeyboardInterrupt" (CTRL/C) to	KeyboardInterrupt (CTRL/C) to exit!
	29 and contact support if it	
	continues to not work.	
32.	Wait until the status light stops flashing and turns solid blue . After this, the install is complete and the AP can be disconnected.	