C 4.0 COOKBOOK pdf

1: FortiOS - Fortinet Cookbook

C# Cookbook [Jay Hilyard, Stephen Teilhet] on www.enganchecubano.com *FREE* shipping on qualifying offers. Completely updated for C# and www.enganchecubano.com platform, the new edition of this bestseller offers more than code recipes to common and not-so-common problems that C# programmers face every day.

Within the described paths, the simplified version is always used when describing the path. Build numbers In cases where there is no indication in the Web-based Manager what the version or build number is, you can get the build number from the CLI by entering the command: Parallel development Firmware development is usually occurring on two paths at the same time. Development takes place on the latest path, as well as the previous stable path. For example, if the latest path is 5. This has two significant ramifications as far as upgrades are concerned. The first is that patches are still built for each of these paths. The second is that because this development takes place in parallel, the number identifiers for the builds do not correspond directly with the sequence in which the builds come out. Occasionally, it appears as if there are some odd jumps in the upgrade sequence. This has to do with the timing of releases of different firmware versions. This is why you can only upgrade 5. Upgrade methods There are two methods of upgrading the firmware using the GUI: Upgrading from the local drive When uploading the firmware from the local drive, you must already have downloaded it from the Fortinet Support Site at https: After you log in with the account ID and password that was created when registering the FortiGate, go to the Download section and select the icon for Firmware images. The layout of the firmware listing in both methods is a hierarchical tree. For instance, if you wanted firmware 5. Then select the file you wish to download. The file names are intended to be helpful in determining the correct firmware for the model you need. Here are some of the conventions found in the file names. The 32 and 64 referring to the bit architecture of the OS. Firmware going directly to a Fortinet Device will have the. Upgrading from the FortiGuard Network The practice of strategically skipping some firmware versions to optimize the time and efficiency that it takes to get to the latest version is based on using the Upgrade from: Local Hard Drive option. If you try to use the Upgrade from: This is because only options that are always going to be safe are available. The logic being that because there are no intermediate options possible, the next consecutive build will always be a safe option. Because of this limitation in options, you will not be able to use the Upgrade from: FortiGuard Network option to see all of the safe upgrade options. You will either have to use the included upgrade path table or study the Release Notes. The builds that will be shown will most like be as follows: The next build in the current version track For Downgrades: The previous build in the current version track. The latest build in the previous version track. These special builds are not part of the normal upgrade path QA process and therefore have a greater risk of variance from what is normally expected in an upgrade. The table of the upgrade path is based on the Release Notes of the regular builds and may not have included testing against every special build as well. If you are running a special build, be even more cautious in upgrading than you would normally be. Why read the Release Notes? Previously in this document, it was recommended that before upgrading from one version of the firmware to a more recent one that the Release Notes be read. To give an indication of how important it is to read the Release Notes, we have provided a sampling on the next page of some of the possible issues that may have to be dealt with upon upgrading. To offer some clarification on the contents of this sampling, some of these issues were and are unavoidable because of the nature of the configurations of the FortiGate devices and the networks they were in. The reason for reading the Release Notes is to make sure that users are prepared for changes or potential outages that may occur so that the affected parties can be forewarned and the issues can be dealt with in a timely manner. Supported models While it is not necessarily an upgrade issue, one very good reason for reading the Release Notes is to verify that your model of FortiGate is supported by the firmware. The reasons for a particular model not being supported can be: There are some instances where a model may not be supported by only some builds of the firmware. But just because a model appears to go out of support does not mean that the situation will continue moving forward. There is no version 5. However, these models were brought back into the supported list for 5. This presents a slightly different problem than normal for the people

using the upgrade path tables as some of those paths could refer to upgrading to 5. The solution is relatively straightforward. From there, it should be easy to then use the 5. Potential upgrade issues These are some examples of issues, in no particular order, that have been brought to the attention of the Technical Assistance Center or the Documentation Team that could impact the success of a firmware upgrade. HA configuration upgrades In version 5 there is a difference in the steps between the patches depending on whether your FortiGate setup is in a standalone or an HA configuration. If you have a standalone setup, you can upgrade from Patch 3 5. However, if you are using an HA setup, you need to add the intermediate step of going to Patch 4 5. Otherwise, only the slave unit in the configuration will be upgraded to Patch 5. In the table describing the steps in progressing through the upgrades the most cautious path is listed. This minimizes the possibility of confusion for somebody who has an HA cluster but reads the Release Notes, like everybody should, but was unaware of the known issue with the HA clusters. Max Value issues There is a range of builds where the maximum number of some of the objects was lowered, but then a few builds later were raised back up. If the configuration on a device was to have a number of these objects in excess of the lower value when doing an upgrade, there could be issues and even data loss. The upgrade paths listed are designed to avoid upgrading into this lower max value range even though the Release Notes state that upgrading to these firmware builds is supported. When the release notes were written the act of increasing the values was not foreseen. Seemingly unrelated features can sometimes affect Max Value parameters after an upgrade. For instance, a feature introduced in 5. In dual- wan setups, after upgrading to FortiOS 5. Most instances will not be affected by this, but the upgrade path table has been modified to avoid 5. Loss of secondary IP address for everyone Similar to the above issue with secondary IP addresses and admin access there is an even more significant example of losing the secondary IP address. At one point, a number of the upgrade paths to the 5. This worked well enough until the system was upgraded to 5. This problem did not exist when going directly from a 5. This cannot be done if you are already on 5. However, in the firmware code, these categories are referenced by an integer and not a text string. Periodically, the list of categories changes, whether by the number growing larger or smaller. If the list changes, then so do the object values in that list. If your policies are such that everything is wide open, you are not likely to see an issue. However, if there are carefully crafted restrictions in place. Web filter category removal and FortiManager Sometimes an issue in the upgrade process will not affect the FortiGate itself but will not affect one of the other devices connecting to the FortiGate. This issue similar to the changing Category numbers issue, but it differs in that it affects the FortiManager rather than the FortiGate itself. Instead of changing the subject of a category, there is an instance where a category was completely removed from the list of categories. Firmware upgrades developed soon after the removal of the category sanitized the configuration file. Later firmware versions ignored the category if it was left in the configuration file. An upgrade from 4. However, if FortiManager, running a current version of its firmware, tries to work with a configuration file with the removed category in it, an error message is triggered. To determine if your FortiGate may affect the FortiGate later on, run this simple check. Save your configuration file to your hard drive Open it in your favorite text or code editor. To completely remove the chance of this affecting the FortiManager, use the following path when upgrading the FortiGate: This is because references to the category were not removed all at once. This path was not added to the main table as it is a somewhat isolated case. After upgrading a cluster to FortiOS 5. You can use the get hardware nic command to view the virtual MAC address of each FortiGate interface. The practical consequences of this could be seen in a situation where, in a very security conscious environment, there is some blocking or allowing of traffic based on mac addresses. Features removed or changed While not an issue that will potentially stop the FortiGate from working, this issue will sometimes make it worthwhile to keep a close eye on the performance of your FortiGate after an upgrade to ensure everything is still doing what it was before the upgrade. Logtraffic function For instance, when upgrading from 4. More often than not this is the default setting of after an upgrade. While for some users the loss of this function may be inconsequential, to other users this function might be useful. This is another reason to read the Release Notes; checking to verify that features commonly used in your environment will be there after the upgrade. Disk Logging In version 4. Despite the warning, it was possible to override the disabling of the feature and turn it on. The feature is still

part of the firmware and available through the CLI, just not to all models. Combination of variables that produce unexpected results Every now and then a specific combination of variables will produce a side effect that is completely unexpected.

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