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Echo dot manual reset password recovery tools





## **Red Hat Enterprise Linux 7**

System Administrator's Guide

Deployment, Configuration, and Administration of Red Hat Enterprise Linux 7

Last Updated: 2017-09-25

The researchers didn't save or use any of it to demonstrate additional attacks, and they didn't find any personal data on six additional Amazon-certified refurbished devices they obtained. If someone does not use any smart home devices, then you obviously cannot control them. This process is known as wear-leveling. Mitigating the privacy disaster The researchers proposed several ways to better protect data from extraction on used devices. With those two pieces of information, it's usually possible to learn the rough location of the device using search sites such as Wigle. "While a reset still leaves data, you make it harder to extract the information, it's usually possible to learn the rough location of the device using search sites such as Wigle." the device to your Amazon account," he said. Alexa, who am 1? The researchers then extracted the flash contents from these still-provisioned devices using the techniques described earlier. Giese summarized the results this way: If a device has not been reset (as in 61% of the cases), then it's pretty simple; you remove the rubber on the bottor remove 4 screws, remove the body, unscrew the PCB, remove a shielding and attach your needles. The identification and reassembly of such blocks becomes very difficult. Before and after a factory reset the raw NAND flash was extracted from our provisioned devices using the Chip-Off method. When asked "Alexa, Who am I?", the device would return the previous owner's name. A different process called in-system programming allows the researchers to access the flash without desoldering it. The re-connection to the spoofed access the flash without desoldering it. The re-connection to the spoofed access the flash without desoldering it. access it. Without a reset, recovering the previous owners' Wi-Fi passwords, router MAC addresses, Amazon account credentials, and information about connected devices was a relatively easy process. After extracting the contents, the researchers reball the chip and resolder it. If the device has been reset, it gets more tricky and will involve some soldering. The hybrid technique uses a donor multi-chip package for the RAM and the embedded multi media card portion of the original multi-chip package externally. Giese said that he believes Amazon is working on ways to better secure the data on the devices it manufactures. For smartphones, encryption keys are protected with a PIN or password. personal content from the applicable device(s)" before selling or discarding them. Giese said that resets don't always work as expected, in part because it's hard to differentiate between a Wi-Fi password reset (pressing reset for 15 seconds). Another image of the solderless ISP method. Like most Internet-of-things (IoT) devices these days, Amazon's Echo Dot gives users a way to perform a factory reset so, as the corporate behemoth says, users can "remove any... Recovered log files also provided lots of personal information. One special thing is door locks, where, by default, Alexa only allows you to lock them. Also, the Echo will get notifications when packages are about to arrive or you can use the Drop-In feature (as in, talking to another Echo of yours). Reading the tea leaves While the researchers were able to find the rough location by asking questions about nearby restaurants, grocery stores, and public libraries. We confirmed that the device connected successfully, and we were able to issue voice commands to the devices, as described earlier. Like traditional hard drives, NAND—which is short for the boolean operator "NOT AND" stores bits of data so they can be recalled later, but whereas hard drives write data to magnetic platters, NAND uses silicon chips. The researchers believe that the solution can be implemented in a firmware update and wouldn't degrade performance for most devices. The researchers believe that the solution can be implemented in a firmware update and wouldn't degrade performance for most devices. create a list of keywords to locate specific types of data in four categories: information about the owner, Wi-Fi-related data, information about the owner, Wi-Fi-related data, information about the owner, Wi-Fi-related data, information about the owner multiple times, along with the complete contents of the wpa supplicant.conf file, which stores a list of networks the devices have previously connected to, along with the encryption key they used. Advertisement Because the researchers provisioned the devices stored. The results of experiments the researchers were able to do were consistent with the results from their six devices, and there's no reason to believe they wouldn't behave the same way. In the event that the reset was done when the device from their Alexa app, the recovered data included the authentication token needed to connect to the associated Amazon account. The researchers then use an external device to access and extract the flash contents. The process allowed the researchers to access the raw NAND test pads. "An adversary with physical location of (previous) owners, and cyber-physical devices (e.g., cameras, door locks)," the researchers wrote in a research paper. For example, you can manage your calendar through the Echo. This design allows for a limited number of erase cycles, usually in the neighborhood of between 10,000 times per block. The researchers paired the provisioned devices to different smart home and Bluetooth devices. But obviously that might not be the best thing for the environment." This mitigation would solve multiple problems. Additionally, we created a dump using the eMMC interface. So if a user did not enable that feature, you cannot open doors. This method requires a fair amount of equipment, skill, and time. That means the 61 percent of used devices they bought held a wealth of personal information about the previous owner that was fairly easy for someone with modest means to extract. Technical solutions exist, but they require some level of design and implementation effort. anymore as a data dump would only contain encrypted information to which an attacker needs to retrieve the respective key first. The results are also likely to apply to many other NAND-based devices that don't encrypt user data, including the Google Home Mini. You will at least get the Wi-Fi using the MAC address. When devices were reset while connected to the Wi-Fi network or had been deleted from the Alexa app, the researchers could still obtain Wi-Fi SSID names and passwords and MAC addresses of the connected router. And you can chat with Alexa directly after that. Their first surprise: 61 percent of them had not been reset. Until then, truly paranoid users who have no further use for their devices have little option than to physically destroy the NAND chip inside. The chip-off method here involves desoldering the eMCP chip. To extend the life of the chip, blocks storing deleted data are often invalidated rather than wiped. "We show that such information, including all previous passwords and tokens, remains on the flash memory, even after a factory reset." Used Echo Dots and other Amazon devices can come in a variety of states. Researchers from Northeastern University bought 86 used devices on eBay and at flea markets over a span of 16 months. But that depends on the circumstances of the reset. It takes about 30 minutes. NAND is also less stable than hard drives because reading and writing to it produces bit errors that must be corrected using error-correcting code. To find information in the resulting dumps, we had to develop a method to identify interesting information. But researchers have recently found that the digital bits that remain on these reset devices can be reassembled to retrieve a wealth of sensitive data. Dennis Giese, one of the Northeastern University researchers who wrote the paper, expanded on the attack scenario in an email, writing: One of the gueries is "Alexa, Who am I," and the device will tell the owner's name. Amazon responds (sort of) Asked if Amazon was aware of the findings or disagreed with them, a company spokeswoman wrote, "The security of our devices is a top priority. The devices can be reset while they are connected to the previous owner's Wi-Fi network, reset while disconnected from Wi-Fi, either with or without deleting the device from the owner's Alexa app. Owners should also double-check that the device no longer appears in the Alexa app. The researchers reverse-engineered the signal traces and testpads. Reset but not wiped NAND is usually organized in planes, blocks, and pages. The researchers also created a hybrid chip-off method that causes less damage and thermal stress to the PCB and the embedded multi chip package. After extracting the flash contents from their six new devices, the researchers used the Autospy forensic tool to search embedded multimedia card images. Knowing what kinds of data are on the device can be helpful, but it's not necessary for carrying out the attack. These defects can cause short-circuiting and breakage of PCB pads. This method is mostly interesting to researchers who want to analyze IoT devices. Advertisement The researchers also developed a privacy-preserving scheme to indicate when devices still stored this information. It works by scratching some of the solder mask coating off of the printed circuit board and attaching a conductive needle to an exposed piece of copper to tap into the signal trace, which connects the flash to the CPU. In some cases—such as when the device user had multiple Wi-Fi routers or neighbors' SSID names were stored—the researchers could use the Google localization API, which is more precise still. Encrypting the user data partition or sensitive data on it requires some accommodations for protecting the user data partition. in an email. That allowed them to access the eMMC flash. Ethical considerations prevented the researchers from performing experiments if they revealed personal information about the owner. Devices that aren't reset, a simple process called in-system-programming will dump NAND contents. Also, the correct identification and reconstruction of traces of a deleted key is in our opinion not possible or very unlikely. The most effective, they said, was to encrypt the user data partition. They first examined the purchased devices to see which ones had been factory reset and which hadn't. A user needs to manually allow Alexa to enable the unlock feature... which, to our knowledge, only works through the App. The researchers wrote: Our assumption was, that the device would not require an additional setup when connected at a different location and Wi-Fi access point with a different MAC address. All services that the previous owner used are accessible. The requests are logged under "Activity" in the Alexa app, but they can be deleted via voice commands. For reset devices, there's a process known as chip-off, which involves disassembling the device and desoldering the flash memory. In some rare cases, you might be able to connect it to the Amazon cloud and the previous owner's account. The needles allow memory to be dumped in less than 5 minutes. Depending on the type of NAND flash and the state of the previously owned device, the researchers used several different techniques to extract the stored data. But IoT devices like the Echo Dot are expected to work after a reboot without user interaction. We recommend customers deregister and factory reset their devices before reselling, recycling, or disposing of them. Most IoT devices, the Echo Dot included, use NAND-based flash memory to store data. For the rest, it's important to perform a factory reset while the device is connected to the Wi-Fi access point where it was provisioned. One state is the device remains provisioned, as the 61 percent of purchased Echo Dots were. This would protect the user credentials even if a reset was not possible nor performed. After you got everything, you reassemble it as it will work as is) and you create your own fake Wi-Fi access point. That alternative isn't as effective as encrypting the entire user partition, but it would still make data extraction much harder and more costly. When Echo Dots were reset, the data extraction required more sophistication. The next surprise came when the researchers disassembled the devices and forensically examined the contents stored in their memory. He suggested that owners verify that the device was reset. In a few of the experiments, locations were accurate up to 150 meters. The exact amount of functionality depends on the features and skills the previous owner had used. True deletions usually happen only when most of the pages in a block are invalidated. You can dump the device then in less than 5 minutes with a standard eMMC/SD Card reader. "Generally, and for all IoT devices, it might be a good idea to rethink if reselling it is really worth it. We were able to control smart home devices, query package delivery dates, create orders, get music lists and use the "drop-in" feature. Second, most of the issues with wear-leveling are mitigated as all blocks are stored encrypted. In addition to the 86 used devices, the researchers bought six new Echo Dot devices and over a span of several weeks provisioned them with test accounts at different geographic locations and different to the Internet or enters setup mode. It is not possible to access Amazon account passwords or payment card information because that data is not stored on the device." On background, she also noted points the researchers already made, specifically that: The company is working on mitigations The attacks require t a device and specialized training For devices that are successfully reset while connected to the Internet, the information remaining on devices available through Amazon trade-ins or returns. The threats demonstrated in the research most likely apply to Fire TV, Fire Tablets, and other Amazon devices, though the researchers didn't test them.

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