**Pacman (Medium)**

**Our analysts were able to connect to an unknown server and need help determining some information by analyzing the package manager log files.**

* This challenge revolves around Arch Linux’s *pacman* package manager. Info about pacman can be found here: <https://wiki.archlinux.org/index.php/pacman>
  + Section 1.4 gives querying commands.
* \*Note: pacman commands were not working during the competition for some reason. I was getting an error stating the *alpm* library couldn’t be found.
* \*Note: Arch Linux is not Debian based, so terminal commands may be different than what you are used to.

**What distribution of Linux is the machine running?**

The 2nd to last question says “How many packages were installed through the Arch User Repository?”

Answer: Arch.

**What version of pcre was installed?**

1. Type in terminal *pcretest*

Answer: \*forgot to record answer.

**What is the only package that updated to a newer version?**

1. Jump to the log directory by typing in *cd /var/log* in the terminal.
2. Show everything w/in the directory via *ls –la* command.
3. Notice the “pacman.log” log file.
4. Use *cat pacman.log* to display contents of log file.
5. There’s only one that has the word “update” in it’s string line; all others say something like “install” or “removed.”

Answer: Nettle

\*Below are all unanswered questions…

**What is the absolute file path of the package manager log?**

**What repository does the brotli package come from?**

**How many dependencies were installed alongside reflector and rsync?**

**How many packages were freshly installed?**

**How many packages were installed through the Arch User Repository?**

**What is the first url used for downloading packages?**