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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'systemd-pstore.8' command

\$ man systemd-pstore.8

SYSTEMD-PSTORE.SERVICE(8) systemd-pstore.service SYSTEMD-PSTORE.SERVICE(8)

NAME

systemd-pstore.service, systemd-pstore - A service to archive contents of pstore

SYNOPSIS

/usr/lib/systemd/systemd-pstore
systemd-pstore.service

DESCRIPTION

systemd-pstore.service is a system service that archives the contents of the Linux persistent storage filesystem, pstore, to other storage, thus preserving the existing information contained in the pstore, and clearing pstore storage for future error events.

Linux provides a persistent storage file system, pstore, that can store error records when the kernel dies (or reboots or powers-off). These records in turn can be referenced to debug kernel problems (currently the kernel stores the tail of the kernel log, which also contains a stack backtrace, into pstore).

The pstore file system supports a variety of backends that map onto persistent storage, such as the ACPI ERST and UEFI variables. The pstore backends typically offer a relatively small amount of persistent storage, e.g. 64KiB, which can quickly fill up and thus prevent subsequent kernel crashes from recording errors. Thus there is a need to monitor and extract the pstore contents so that future kernel

problems can also record information in the pstore.

The pstore service is independent of the kdump service. In cloud environments specifically, host and guest filesystems are on remote filesystems (e.g. iSCSI or NFS), thus kdump relies (implicitly and/or explicitly) upon proper operation of networking software *and* hardware *and* infrastructure. Thus it may not be possible to capture a kernel coredump to a file since writes over the network may not be possible.

The pstore backend, on the other hand, is completely local and provides a path to store error records which will survive a reboot and aid in post-mortem debugging.

The systemd-pstore executable does the actual work. Upon starting, the pstore.conf file is read and the /sys/fs/pstore/ directory contents are processed according to the options. Pstore files are written to the journal, and optionally saved into /var/lib/systemd/pstore/.

CONFIGURATION

The behavior of systemd-pstore is configured through the configuration file /etc/systemd/pstore.conf and corresponding snippets /etc/systemd/pstore.conf.d/*.conf, see pstore.conf(5).

Disabling pstore processing

To disable pstore processing by systemd-pstore, set

```
Storage=none
```

in pstore.conf(5).

Kernel parameters

The kernel has two parameters,

/sys/module/kernel/parameters/crash_kexec_post_notifiers and

/sys/module/printk/parameters/always_kmsg_dump, that control writes

into pstore. The first enables storing of the kernel log (including

stack trace) into pstore upon a panic or crash, and the second enables

storing of the kernel log upon a normal shutdown (shutdown, reboot,

halt). These parameters can be managed via the tmpfiles.d(5) mechanism,

specifically the file /usr/lib/tmpfiles/systemd-pstore.conf.

USAGE

Data stored in the journal can be viewed with journalctl(1) as usual.

SEE ALSO

pstore.conf(5)

systemd 252

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