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```
$> dmesg -T
```

```
[* 12* 10 18:20:06 2024] systemd-journald[655]: Data hash table of
/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4/system.journal has a fill level at 75.0 (19207 of 25607
items, 8388608 file size, 436 bytes per hash table item), suggesting rotation.
```

```
[ 12 10 18:20:06 2024] systemd-journal[655]:
```

```
/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4/system.journal: Journal header limits reached or header
out-of-date, rotating.
```

```
[* 12* 10 19:30:37 2024] systemd-journald[655]: Data hash table of
/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4/system.journal has a fill level at 75.0 (19206 of 25607
items, 14749696 file size, 767 bytes per hash table item), suggesting rotation.
```

```
[ 12 10 19:30:37 2024] systemd-journal[655]:
```

```
/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4/system.journal: Journal header limits reached or header
out-of-date, rotating.
```

```
[* 12* 11 19:40:48 2024] systemd-journald[655]: Data hash table of
/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4/system.journal has a fill level at 75.0 (19206 of 25607
items, 8388608 file size, 436 bytes per hash table item), suggesting rotation.
```

$$\begin{array}{|c|c|c|} \hline & & \\ \hline \end{array} \quad \begin{array}{|c|c|c|} \hline & & \\ \hline \end{array} \quad , \quad \begin{array}{|c|c|} \hline & \\ \hline \end{array} \left(\begin{array}{|c|c|c|} \hline & & \\ \hline \end{array} \quad \begin{array}{|c|c|c|} \hline & & \\ \hline \end{array} \quad \dots \right)$$

info (journald) .

□□□□□ □□□□ □□□ info□ □□□□

Journald?

1. systemd(시스템드)은 (Journal)이라고 불리는 로그 시스템을 포함하고, OS의 모든 로그를 기록합니다. OS의 다른 로그 시스템(예: rsyslog)과 함께 사용할 수 있습니다.
2. Journalctl은 Journalctl을 사용하여 Journald에서 기록된 로그를 검색하고 필터링할 수 있습니다.
3. dmesg은 커널 로그를 출력합니다. Journald.conf의 ForwardToWall을 yes로 설정하면 dmesg의 출력이 Journald에 기록됩니다.

예제

1. Journald.conf의 ForwardToWall을 no로 설정하여 커널 로그가 Journald에 기록되지 않도록 합니다.

```
$>vi /etc/systemd/journal.conf
...
ForwardToWall=no
...
```

2. Journalctl을 사용하여 Journald에서 기록된 로그를 검색하고 필터링할 수 있습니다. (예: Journalctl -t OK, Journalctl -t ERROR)

1. Journalctl을 사용하여 Journald에서 기록된 로그를 검색하고 필터링할 수 있습니다.

2. Journalctl을 사용하여 Journald에서 기록된 로그를 검색하고 필터링할 수 있습니다.

3. Journalctl을 사용하여 Journald에서 기록된 로그를 검색하고 필터링할 수 있습니다.

```
$> du -hs /run/log/journal/8d8bce04dde6433198c5ff39a2265dd4
50G .
```

Journalctl을 사용하여 Journald에서 기록된 로그를 검색하고 필터링할 수 있습니다. (예: Journalctl -t OK, Journalctl -t ERROR)

4. uptime을 사용하여 시스템이 실행된 시간을 확인합니다. (예: uptime)

5. Journald의 로그를 사용하여 시스템의 상태를 확인합니다. (예: Journalctl -t OK, Journalctl -t ERROR)

cron을 사용하여 정기적으로 Journald의 로그를 백업합니다.

...

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1.  ..     ?

(19207 of 25607 items, 8388608 file size, 436 bytes per hash table item), suggesting rotation.

```
[* 12 10 18:20:06 2024] systemd-journald[655]:
/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4/system.journal: Journal header limits
reached or header out-of-date, rotating.
[* 12 10 19:30:37 2024] systemd-journald[655]: Data hash table of
/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4/system.journal has a fill level at 75.0
(19206 of 25607 items, 14749696 file size, 767 bytes per hash table item), suggesting rotation.
[* 12 10 19:30:37 2024] systemd-journald[655]:
/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4/system.journal: Journal header limits
reached or header out-of-date, rotating.
[* 12 11 19:40:48 2024] systemd-journald[655]: Data hash table of
/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4/system.journal has a fill level at 75.0
(19206 of 25607 items, 8388608 file size, 436 bytes per hash table item), suggesting rotation.
```

* `journalctl -u systemd-journald` `journalctl -u systemd-journald` .

2. `journalctl -u systemd-journald` !

```
$> systemctl restart systemd-journald
```

3. `systemd` `journal` `service` `status` `check`

```
$> systemctl status systemd-journald
● systemd-journald.service - Journal Service
   Loaded: loaded (/usr/lib/systemd/system/systemd-journald.service; static)
   Active: active (running) since Mon 2024-01-15 23:07:33 KST; 1s ago
 TriggeredBy: ● systemd-journald.socket
               ● systemd-journald-dev-log.socket
   Docs: man:systemd-journald.service(8)
         man:journald.conf(5)
 Main PID: 127119 (systemd-journal)
   Status: "Processing requests..."
   Tasks: 1 (limit: 35765)
  Memory: 1.4M
     CPU: 14ms
   CGroup: /system.slice/systemd-journald.service
           └─127119 /usr/lib/systemd/systemd-journald

1□ 15 23:07:33 systemd-journald[127119]: Journal started
1□ 15 23:07:33 systemd-journald[127119]: Runtime Journal
(/run/log/journal/8d8bce04dde6433198c5ff39a2265dd4) is 108.9M, max 112.5M, 3.5M free.
```



□ `systemd` `journal` `service` `status` `check` . `systemd` `journal` `service` `status` `check` `cron` `service` `status` `check` ->
`systemd` `journal` `service` `status` `check` `journal` `service` `status` `check` (`info` `service` `status` `check`)

Reference

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- https://access.redhat.com/documentation/ko-kr/red_hat_enterprise_linux/8/html/automating_system_administration_by_using_rhel_system_roles/configuring-persistent-logging-by-using-the-journald-system-role_configuring-the-systemd-journal-by-using-the-journald-rhel-system-role
- https://access.redhat.com/documentation/ko-kr/openshift_container_platform/4.6/html/logging/cluster-logging-systemd

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