

Fall2019 Cent OS 7 log operation

The presentation works with log files.

Preuss
12/5/2019

Cent OS 7 Settings on both systems

40 GB disk
8 GB RAM
2 Processors
NAT Network Settings

Software Install: Server with GUI (no additional software)
Automatic partitioning
No security policy chosen

Post-Installation
Install open-vm-tools
Install updates

Resource:
<https://www.loggly.com/ultimate-guide/using-journalctl/>
<http://man7.org/linux/man-pages/man1/journalctl.1.html>
<http://man7.org/linux/man-pages/man5/journald.conf.5.html>



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Trash

The presentation logs into the system.



preuss@log01:~

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```
[preuss@log01 ~]$ journalctl
Hint: You are currently not seeing messages from other users and the system.
      Users in the 'systemd-journal' group can see all messages. Pass -q to
      turn off this notice.
No journal files were opened due to insufficient permissions.
[preuss@log01 ~]$ █
```

The presentation tries running "journalctl".



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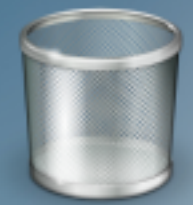
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```
[preuss@log01 ~]$ journalctl
Hint: You are currently not seeing messages from other users and the system.
      Users in the 'systemd-journal' group can see all messages. Pass -q to
      turn off this notice.
No journal files were opened due to insufficient permissions.
[preuss@log01 ~]$ su
Password:
[root@log01 preuss]# journalctl
```

The presentation runs "journalctl" as root.



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```
[root@log01 preuss]# journalctl -b
```

The presentation runs "journalctl -b" to see the boot log entries.



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```
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.1: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.1: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.1: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.2: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.2: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.2: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.3: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.3: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.3: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.4: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.4: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.4: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.5: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.5: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.5: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.6: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.6: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.6: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.7: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.7: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:17.7: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.0: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.0: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.0: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.1: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.1: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.1: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.2: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.2: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.2: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.3: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.3: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.3: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.4: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.4: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.4: System wakeup disabled by ACPI
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.5: [15ad:07a0] type 01 class 0x060400
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.5: PME# supported from D0 D3hot D3cold
Nov 22 13:16:43 log01.mait.minnesota.edu kernel: pci 0000:00:18.5: System wakeup disabled by ACPI
[root@log01 preuss]#
```

This is sample boot log entries.



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```
[root@log01 preuss]# journalctl --list-boots
0 e20d0c737de548a491d90e16f0a52b92 Fri 2019-11-22 13:16:43 CST–Fri 2019-11-22 13:20:44 CST
[root@log01 preuss]# █
```

The presentation runs "journalctl --list-boots" to see system boots.



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```
[root@log01 preuss]# journalctl --list-boots
0 e20d0c737de548a491d90e16f0a52b92 Fri 2019-11-22 13:16:43 CST–Fri 2019-11-22 13:20:44 CST
[root@log01 preuss]# journalctl -u yum
-- No entries --
[root@log01 preuss]# █
```

The presentation runs "journalctl -u yum" to find any yum entries in journalctl.



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```
[root@log01 preuss]# id preuss
uid=1000(preuss) gid=1000(preuss) groups=1000(preuss)
[root@log01 preuss]# journalctl _UID=1000
```

The presentation runs "id preuss" to get the UID of the login preuss.

The presentation runs "journalctl _UID=1000" to get login entries associated with the login preuss.



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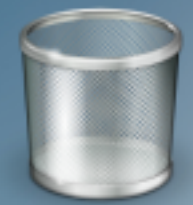
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```
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Nov 22 13:17:08 log01.mait.minnesota.edu gnome-session-binary[9041]: WARNING: App 'spice-vdagent.desktop' exited with code 1
Nov 22 13:17:08 log01.mait.minnesota.edu vmware-user.desktop[10767]: vmware-user: could not open /proc/fs/vmblock/dev
Nov 22 13:17:08 log01.mait.minnesota.edu spice-streaming-agent[10775]: Failed to open the streaming device "/dev/virtio-ports/org.spicevmtools.vdagent"
Nov 22 13:17:08 log01.mait.minnesota.edu vmttoolsd[10769]: gtk_disable_setlocale() must be called before gtk_init()
Nov 22 13:17:08 log01.mait.minnesota.edu org.gnome.Shell.desktop[9286]: Window manager warning: "XF86RFKill" is not a valid accelerator
Nov 22 13:17:08 log01.mait.minnesota.edu gsd-color[10607]: failed to get edid: unable to get EDID for output
Nov 22 13:17:08 log01.mait.minnesota.edu gnome-shell[9286]: Error looking up permission: GDBus.Error:org.freedesktop.portal.Error.NotSupported
Nov 22 13:17:08 log01.mait.minnesota.edu gnome-session-binary[9041]: Entering running state
Nov 22 13:17:08 log01.mait.minnesota.edu tracker-store.desktop[10846]: (uint32 1,)
Nov 22 13:17:08 log01.mait.minnesota.edu libcanberra-login-sound.desktop[10811]: Failed to play sound: File or data not found
Nov 22 13:17:09 log01.mait.minnesota.edu com.redhat.imsettings[9051]: No such schema "org.gnome.settings-daemon.plugins.keyboard"
Nov 22 13:17:09 log01.mait.minnesota.edu imsettings-start.desktop[10823]: Current desktop isn't supported by IMSettings. Please follow the instructions in the README file.
Nov 22 13:17:09 log01.mait.minnesota.edu gnome-shell[9286]: STACK_OVERFLOW
Nov 22 13:17:09 log01.mait.minnesota.edu gnome-shell[9286]: STACK_OVERFLOW
Nov 22 13:17:09 log01.mait.minnesota.edu gnome-shell[9286]: GNOME Shell: Error: Failed to load the desktop environment.
Nov 22 13:17:09 log01.mait.minnesota.edu gsd-color[10607]: unable to get EDID for output
Nov 22 13:17:09 log01.mait.minnesota.edu gnome-software[10796]: plugin not found: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:10 log01.mait.minnesota.edu gnome-software[10796]: not found: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:10 log01.mait.minnesota.edu gnome-software[10796]: enabled: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:10 log01.mait.minnesota.edu gnome-software[10796]: disabled: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:11 log01.mait.minnesota.edu gnome-software[10796]: place: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:11 log01.mait.minnesota.edu gnome-software[10796]: top-items: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:11 log01.mait.minnesota.edu gnome-software[10796]: apps: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:11 log01.mait.minnesota.edu gnome-software[10796]: launchers: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:11 log01.mait.minnesota.edu gnome-software[10796]: alter: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:11 log01.mait.minnesota.edu gnome-software[10796]: window: org.gnome.software.plugins.packagekit-lockdown
Nov 22 13:17:11 log01.mait.minnesota.edu gnome-software[10796]: Only 0 to show,
Nov 22 13:17:11 log01.mait.minnesota.edu gnome-software[10796]: hiding category audio-video featured applications: found only 0 to show
Nov 22 13:17:11 log01.mait.minnesota.edu gnome-software[10796]: Only 5 apps for popular list, hiding
Nov 22 13:17:12 log01.mait.minnesota.edu telepathy-haze[10319]: Exiting
Nov 22 13:17:40 log01.mait.minnesota.edu gnome-shell[9286]: JS WARNING: [resource:///org/gnome/shell/ui/workspaceThumbnail.js 891]: r
Nov 22 13:17:40 log01.mait.minnesota.edu gsd-color[10607]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Nov 22 13:17:40 log01.mait.minnesota.edu gsd-color[10607]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Nov 22 13:20:01 log01.mait.minnesota.edu su[11221]: (to root) preuss on pts/0
Nov 22 13:20:01 log01.mait.minnesota.edu su[11221]: pam_unix(su:session): session opened for user root by preuss(uid=1000)
Nov 22 13:20:44 log01.mait.minnesota.edu pulseaudio[9404]: [alsa-sink-ES1371/1] alsa-sink.c: ALSA woke us up to write new data to the
Nov 22 13:20:44 log01.mait.minnesota.edu pulseaudio[9404]: [alsa-sink-ES1371/1] alsa-sink.c: Most likely this is a bug in the ALSA driver
Nov 22 13:20:44 log01.mait.minnesota.edu pulseaudio[9404]: [alsa-sink-ES1371/1] alsa-sink.c: We were woken up with POLLOUT set -- how
lines 24-62/62 (END)
```

This is sample output of log events dealing with the preuss login.



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[root@log01 preuss]# less /etc/systemd/journald.conf █

The presentation reviews the journalctt configuration file.



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```
# This file is part of systemd.  
#  
# systemd is free software; you can redistribute it and/or modify it  
# under the terms of the GNU Lesser General Public License as published by  
# the Free Software Foundation; either version 2.1 of the License, or  
# (at your option) any later version.  
#  
# Entries in this file show the compile time defaults.  
# You can change settings by editing this file.  
# Defaults can be restored by simply deleting this file.  
#  
# See journald.conf(5) for details.  
  
[Journal]  
#Storage=auto  
#Compress=yes  
#Seal=yes  
#SplitMode=uid  
#SyncIntervalSec=5m  
#RateLimitInterval=30s  
#RateLimitBurst=1000  
#SystemMaxUse=  
#SystemKeepFree=  
#SystemMaxFileSize=  
#RuntimeMaxUse=  
#RuntimeKeepFree=  
#RuntimeMaxFileSize=  
#MaxRetentionSec=  
#MaxFileSec=1month  
#ForwardToSyslog=yes  
#ForwardToKMsg=no  
#ForwardToConsole=no  
#ForwardToWall=yes  
#TTYPath=/dev/console  
#MaxLevelStore=debug  
#MaxLevelSyslog=debug  
#MaxLevelKMsg=notice  
#MaxLevelConsole=info  
#MaxLevelWall=emerg  
/etc/systemd/journald.conf
```

This is a partial listing of a journctl.conf file.