

Logging Files

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System log files are essential for monitoring and troubleshooting. In Linux, these messages appear in various files under **/var/log**.

Ultimate control of how messages are dealt with is controlled by the **syslogd** daemon (usually **rsyslogd** on modern systems) common to many UNIX-like operating systems. The newer systemd-based systems can use **journald** instead, but usually retain **syslogd** and cooperate with it.

Important messages are sent not only to the logging files, but also to the system console window; if you are not running X or are at a virtual terminal, you will see them directly there as well. In addition, these messages will be copied to **/var/log/messages** (or to **/var/log/syslog** on Ubuntu), but if you are running X, you have to take some steps to view them.

A good way to see them is to open a terminal window, and in that window, type **tail -f /var/log/messages**. On a GNOME desktop, you can also access the messages by clicking on *System > Administration > System Log or Applications > System Tools > Log File Viewer* in your Desktop menus, and other desktops have similar links you can locate.

In order to keep log files from growing without bound, the **logrotate** program is run periodically and keeps four previous copies (by default) of the log files (optionally compressed) and is controlled by **/etc/logrotate.conf**.

Here are some of the important log files found under **/var/log**:

File	Purpose
boot.log	System boot messages
dmesg	Kernel messages saved after boot. To see the current contents of the kernel message buffer, type dmesg
messages or syslog	All important system messages
secure	Security related messages