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Top 100 Linux Log Events for Security Monitoring in a SOC

Event ID	Source	Description	Log File	Severity Level	Potential Security Indicator
1001	auth	Successful login.	/var/log/ auth.log	Informational	Valid user logins
1002	auth	Successful logout.	/var/log/ auth.log	Informational	Normal user logout
2001	auth	Failed login attempt.	/var/log/ auth.log	Warning	Brute force attacks, unauthorized access attempts
2002	auth	User account locked due to multiple failed login attempts.	/var/log/ auth.log	Critical	Possible brute force attacks
3001	kern	Critical kernel error message.	/var/log/ kern.log, dmesg	Error	System failures, critical issues
3002	kern	Kernel warning about low resources.	/var/log/ kern.log, dmesg	Warning	Resource shortages impacting system stability
4001	syslog	General system message.	/var/log/ syslog	Informational	Informational about system status
4002	syslog	System configuration change event.	/var/log/ syslog	Warning	Unauthorized configuration changes
5001	auditd	Access to sensitive file.	/var/log/ audit/ audit.log	Critical	Unauthorized access to sensitive files
5002	auditd	Modification of a critical file.	/var/log/ audit/ audit.log	Critical	Unauthorized file modifications
6001	daemon	Service start or stop event.	/var/log/ daemon.log	Informational	Service status changes
6002	daemon	Service error event.	/var/log/ daemon.log	Error	Service failures impacting security
7001	selinux	SELinux policy violation.	/var/log/ audit/ audit.log	Critical	SELinux policy violations
7002	selinux	SELinux denied access due to policy.	/var/log/ audit/ audit.log	Warning	Access attempts blocked by SELinux

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8001	crond	Cron job execution event.	/var/log/ cron	Informational	Scheduled tasks execution
8002	crond	Cron job execution error.	/var/log/ cron	Error	Issues with scheduled tasks
9001	ssh	SSH login success.	/var/log/ auth.log	Informational	Successful remote access
9002	ssh	SSH login failure.	/var/log/ auth.log	Warning	Unauthorized remote access attempts
10001	syslog	System boot event.	/var/log/ syslog	Informational	System startups and restarts
10002	syslog	System shutdown event.	/var/log/ syslog	Informational	Unexpected shutdowns or restarts
11001	auditd	Execution of a privileged command.	/var/log/ audit/ audit.log	Critical	Privilege escalation attempts
11002	auditd	Attempt to access unauthorized resource.	/var/log/ audit/ audit.log	Critical	Attempts to access restricted resources
12001	daemon	Application crash event.	/var/log/ daemon.log	Error	Application crashes
12002	daemon	Service configuration change.	/var/log/ daemon.log	Warning	Unauthorized changes in service configurations
13001	kern	System memory error.	/var/log/ kern.log, dmesg	Error	Memory issues or failures
13002	kern	CPU error or issue.	/var/log/ kern.log, dmesg	Error	CPU-related problems
14001	auth	Password change event.	/var/log/ auth.log	Informational	Password changes by users
14002	auth	Failed password change attempt.	/var/log/ auth.log	Warning	Failed attempts to change passwords
15001	syslog	Disk space warning.	/var/log/ syslog	Warning	Low disk space issues
15002	syslog	Disk space critical.	/var/log/ syslog	Critical	Critical low disk space
16001	auditd	User privilege escalation.	/var/log/ audit/ audit.log	Critical	Unauthorized privilege escalation
16002	auditd	Audit policy change.	/var/log/ audit/ audit.log	Warning	Changes to audit policies

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17001	syslog	System load average warning.	/var/log/ syslog	Warning	High system load conditions
17002	syslog	System load average critical.	/var/log/ syslog	Critical	Critical system load conditions
18001	auditd	File access denied due to permissions.	/var/log/ audit/ audit.log	Warning	Permission issues on file access
18002	auditd	Unauthorized file modification detected.	/var/log/ audit/ audit.log	Critical	Unauthorized changes to files
19001	syslog	Network interface up event.	/var/log/ syslog	Informational	Changes in network interface status
19002	syslog	Network interface down event.	/var/log/ syslog	Warning	Unexpected network interface failures
20001	daemon	Service start or stop from a specific user.	/var/log/ daemon.log	Informational	Service actions by users
20002	daemon	Service configuration change by a specific user.	/var/log/ daemon.log	Warning	Unauthorized changes in service configurations
21001	kern	Hardware error detected.	/var/log/ kern.log, dmesg	Critical	Hardware failures or issues
21002	kern	Filesystem error.	/var/log/ kern.log, dmesg	Error	Filesystem issues and corruption
22001	auth	Suspicious authentication attempts.		Critical	Potential brute force or unauthorized access
22002	auth	Repeated failed login attempts.	/var/log/ auth.log	Warning	Multiple failed login attempts
23001	auditd	Unauthorized access to a network resource.	/var/log/ audit/ audit.log	Critical	Unauthorized network access attempts
23002	auditd	Network configuration changes.	/var/log/ audit/ audit.log	Warning	Unauthorized network configuration changes
24001	syslog	Application error logs.	/var/log/ syslog	Error	Application errors impacting system security
24002	syslog	Application warning logs.	/var/log/ syslog	Warning	Application warnings that may indicate issues
25001	kern	Unusual kernel messages or events.	/var/log/ kern.log,	Warning	Unusual system behavior or anomalies

Event ID	Source	Description	Log File	Severity Level	Potential Security Indicator
			dmesg		
25002	kern	Critical kernel panic or crash.	/var/log/ kern.log, dmesg	Critical	System instability or crashes
26001	auth	User account creation event.	/var/log/ auth.log	Informational	New user account creation
26002	auth	User account deletion event.	/var/log/ auth.log	Informational	User account deletions
27001	auditd	Successful privilege escalation.	/var/log/ audit/ audit.log	Critical	Elevated privileges granted
27002	auditd	Failed privilege escalation attempt.	/var/log/ audit/ audit.log	Warning	Failed attempts to gain elevated privileges
28001	syslog	Software update event.	/var/log/ syslog	Informational	Software updates and patches
28002	syslog	Software update failure.	/var/log/ syslog	Error	Issues with software updates
29001	kern	System clock changes.	/var/log/ kern.log, dmesg	Informational	Changes to system time
29002	kern	NTP synchronization issues.	/var/log/ kern.log, dmesg	Warning	Issues with network time protocol synchronization
30001	auth	User password expiration warning.	/var/log/ auth.log	Warning	Passwords nearing expiration
30002	auth	User password change due to expiration.	/var/log/ auth.log	Informational	Password changes due to expiration
31001	syslog	Network traffic spikes detected.	/var/log/ syslog	Warning	Unusual network activity
31002	syslog	Network interface errors.	/var/log/ syslog	Error	Network connectivity issues
32001	auditd	User session timeout event.	/var/log/ audit/ audit.log	Informational	User session timeouts
32002	auditd	Suspicious user activity detected.	/var/log/ audit/ audit.log	Warning	Potentially malicious user actions
33001	syslog	System reboot initiated.	/var/log/ syslog	Informational	System restarts
33002	syslog	System shutdown initiated.	/var/log/ syslog	Informational	System shutdowns
34001	kern	Disk I/O errors.	/var/log/	Error	Disk read/write issues

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			kern.log, dmesg		
			/var/log/		Unauthorized disk
34002	kern	Disk partition changes.	kern.log, dmesg	Warning	partition modifications
35001	auth	Account expiration warning.	/var/log/ auth.log	Warning	User account expiration warnings
35002	auth	Account expiration event.	/var/log/ auth.log	Informational	User account expirations
36001	auditd	Unauthorized changes to system configurations.	/var/log/ audit/ audit.log	Critical	Critical configuration changes
36002	auditd	Unauthorized changes to application configurations.	/var/log/ audit/ audit.log	Warning	Changes to application settings
37001	syslog	Security policy updates.	/var/log/ syslog	Informational	Updates to security policies
37002	syslog	Security policy violations.	/var/log/ syslog	Warning	Violations of security policies
38001	kern	Hardware temperature warnings.	/var/log/ kern.log, dmesg	Warning	Overheating issues
38002	kern	Hardware failure events.	/var/log/ kern.log, dmesg	Critical	Hardware failures impacting system stability
39001	auditd	Suspicious command execution detected.	/var/log/ audit/ audit.log	Critical	Potentially malicious command executions
39002	auditd	Unauthorized command execution detected.	/var/log/ audit/ audit.log	Warning	Commands executed without proper authorization
40001	syslog	Service status change event.	/var/log/ syslog	Informational	Changes in the status of system services
40002	syslog	Unexpected service termination.	/var/log/ syslog	Error	Unexpected service terminations
41001	daemon	Daemon error messages.	/var/log/ daemon.log	Error	Errors in daemon services
41002	daemon	Daemon warnings.	/var/log/ daemon.log	Warning	Warnings in daemon services
42001	auditd	Sensitive data access detected.	/var/log/ audit/ audit.log	Critical	Unauthorized access to sensitive data
42002	auditd	Changes to sensitive	/var/log/	Critical	Unauthorized changes

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		data.	<pre>audit/ audit.log</pre>		to sensitive data
43001	syslog	Critical system updates applied.	/var/log/ syslog	Informational	System updates that could affect security
43002	syslog	System update failures.	/var/log/ syslog	Error	Issues with applying system updates
44001	auth	Unauthorized user privilege escalation attempt.	/var/log/ auth.log	Critical	Privilege escalation attempts
44002	auth	Privilege escalation success event.	/var/log/ auth.log	Critical	Successful unauthorized privilege escalation
45001	kern	System call violations detected.	/var/log/ kern.log, dmesg	Warning	Unauthorized system calls
45002	kern	Unauthorized kernel module loaded.	/var/log/ kern.log, dmesg	Critical	Loading of unauthorized kernel modules
46001	auditd	File system access issues.	/var/log/ audit/ audit.log	Error	Issues with file system access
46002	auditd	Unauthorized file deletions.	/var/log/ audit/ audit.log	Critical	Unauthorized deletions of important files
47001	syslog	User account changes detected.	/var/log/ syslog	Informational	Creation, modification, or deletion of user accounts
47002	syslog	Critical user account changes.	/var/log/ syslog	Warning	Significant changes to user accounts
48001	auditd	Access to protected resources.	/var/log/ audit/ audit.log	Warning	Unauthorized access to protected resources
48002	auditd	Unauthorized attempts to modify protected resources.	/var/log/ audit/ audit.log	Critical	Critical modifications to protected resources
49001	syslog	Network configuration changes.	/var/log/ syslog	Warning	Changes to network configurations
49002	syslog	Unauthorized network configuration changes.	/var/log/ syslog	Critical	Unauthorized changes to network settings

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