

Syslog Cheat Sheet (v1.2) https://www.aplura.com/cheatsheets						
	Syslog-ng	Common	Variables	Rsyslog		
Sending host	\$H0ST		Sending host	fromhost		
Sending host IP	\$SOURCEIP		Sending host IP	fromhost-ip		
Priority text \$PRIORITY		Priority text	pri-text			
Facility text			Facility text	syslogfacility-text		
Tag	\$TAGS		Tag	syslogtag		
Program name	\$PROGRAM		Program name	programname		
Time received	\${R_DATE}		Time received	timegenerated		
Message time	\${DATE}		Message time	timereported		
<u>sys</u>	slog-ng parameters		rsyslog properties			
Setup Listeners						
<pre>source s_remote_all { udp (ip("0.0.0.0") port(514)); tcp (ip("0.0.0.0") port(514)); }; source s_firewall { udp (ip("0.0.0.0") port(1514)); tcp (ip("0.0.0.0") port(1514)); };</pre>			<pre>input(type="imudp" port="514" ruleset="f_remote_all") input(type="imtcp" port="514" ruleset="f_remote_all") input(type="imudp" port="1514" ruleset="f_firewall") input(type="imtcp" port="1514" ruleset="f_firewall")</pre>			
		Filters (Optional)			
<pre># Syslog-ng filters are defined separately and used within the log statement filter f_firewall_range { netmask (192.168.100.0/255.255.255.0); };</pre>			# Rsyslog filters go within the Output ruleset if (\$fromhost-ip startswith '192.168.100.') then { action(type="omfile" DynaFile="d_firewall_log") }			
<u>Sys</u>		ny, italicized ems are optional	,	Rsyslog Expressions Rsyslog Control Structures		
		Organize Dire	ectories by Host			
<pre>destination d_catch_all catch_all/\$HOST/\$YEAR-\$ destination d_firewall remote_syslog/firewall/</pre>	<pre>\$MONTH-\$DAY.log"); }; _log { file("/var/log/</pre>	,	template(name="d_catch_all" type="string" string="/var/ log/remote_syslog/catch_all/%FROMHOST%/%\$YEAR%-%\$MONTH%-% \$DAY%.log") template(name="d_firewall_log" type="string" string="/var/ log/remote_syslog/firewall/%FROMHOST%/%\$YEAR%-%\$MONTH%-% \$DAY%.log")			
Set Output						
<pre>log { source(s_remote_all); destination(d_catch_all); }; log { source(s_firewall); filter(f_firewall_range); destination(d_firewall_log); };</pre>			<pre>ruleset(name="f_remote_all") { action(type="omfile" DynaFile="d_catch_all") } ruleset(name="f_firewall") { action(type="omfile" DynaFile="d_firewall_log") }</pre>			
		Performan	ce Tuning			
<pre>options { log_fifo_size (10000); time_reap(20); flush_lines(10000); flush_timeout(1000); }; syslog_ng_tuning</pre>			main_queue(queue.size="1000000" # Size of Queue queue.debatchsize="1000" # process messages in batches queue.workerthreads="2" # 2 threads for the queue) rsyslog_tuning			
Permissions						
D0011/ 4.61	chmod g+s /var/log/r			Set the SUID bit		
POSIX ACLs	setfacl -R -d -m g:splunk:rx /var/log/remote_syslog/			Set the default permissions		
setfacl -R -m g:splunk:rx /var/log						
	setfacl -R -x g:splu	ınk:rx /var/log/	remote_syslog/	Remove POSIX permissions		

SELINUX

chmod g-s /var/log/remote_syslog/ Remove SUID bit chcon system_u:object_r:var_log_t:s0 /var/log/remote_syslog/ Set the selinux context restorecon -R -v /var/log/remote_syslog/ Apply to existing files semanage port -a -t syslogd_port_t -p udp 1514

Allow port

```
gray, italicized
@version:3.2
                                           items are optional
options {
        log fifo size (10000);
        time reap(20);
        flush lines(10000);
        flush timeout(1000);
        create_dirs(yes); };
source s remote all {
        udp ( ip("0.0.0.0") port(514) );
        tcp ( ip("0.0.0.0") port(514) );
source s firewall {
        udp ( ip("0.0.0.0") port(1514) );
        tcp ( ip("0.0.0.0") port(1514) );
};
filter f firewall_range {
        netmask (192.168.100.0/255.255.255.0); };
destination d_catch_all {
          file("/var/log/remote_syslog/catch_all/$HOST/
$YEAR-$MONTH-$DAY.log");
};
destination d_firewall_log {
        file("/var/log/remote_syslog/firewall/$HOST/
$YEAR-$MONTH-$DAY.log");
log {
   source(s remote all);
   destination(d_catch_all); };
   source(s firewall); filter(f firewall range);
   destination(d_firewall_log); };
                   syslog-ng documentation
```

For a more commented version of this config:

syslog-ng config

```
$PreserveFODN on
$CreateDirs on
# Sources
main queue(
queue.size="1000000"
queue.debatchsize="1000"
queue.workerthreads="2")
module(load="imtcp" MaxSessions="5000")
module(load="imudp")
input(type="imudp" port="514" ruleset="f remote all")
input(type='imtcp" port='514" ruleset="f_remote_all")
input(type="imudp" port="1514" ruleset="f_firewall")
input(type="imtcp" port="1514" ruleset="f_firewall")
# Destinations
template(name="d catch all" type="string" string="/var/
log/remote syslog/catch all/%FROMHOST%/%$YEAR%-%
$MONTH%-%$DAY%.log")
template(name="d_firewall_log" type="string" string="/
var/log/remote syslog/firewall/%FROMHOST%/%$YEAR%-%
$MONTH%-%$DAY%.log")
ruleset(name="f remote all" queue.type="LinkedList"
queue.size="100\overline{0}00") {
if ($fromhost-ip startswith '192.168.100.') then {
   action(type="omfile" DynaFile="d firewall log")
# Lets setup the catch all logging
action(type="omfile" DynaFile="d catch all")
ruleset(name="f firewall") {
action(type="omfile" DynaFile="d firewall log") }
```

rsyslog documentation

For a more commented version of this config:

rsyslog config

Check Syntax

OS Tunina

syslog-ng --syntax-only

rsyslogd -N1 -f /etc/rsyslog.conf

sysctl.conf

	o o i ai i i i g		
Paramater	Value	Description	
fs.file-max	2097152	Increase file handles & inode cache	
net.ipv4.tcp_max_syn_backlog	8192	Max syns without an ack	
net.core.netdev_max_backlog	65536	Increase packet backlog queue	
net.core.optmem_max	25165824	Max kernel memory buffer	
net.ipv4.tcp_mem	65536 131072 262144	Buffer size range (TCP)	
net.ipv4.udp_mem	65536 131072 262144	Buffer size range (UDP)	
net.core.rmem_default	25165824	Socket receive buffer default	
net.core.rmem_max	25165824	Max receive memory	
net.ipv4.tcp_rmem	20480 12582912 25165824	Receive buffer size range (TCP)	
net.ipv4.udp_rmem	20480 12582912 25165824	Receive buffer size range (UDP)	

limits.conf

User	Туре	Item	Value	Descrption
root	hard	nofile	65536	Set the file handle limit
root	soft	nofile	10240	Set the file handle limit
syslog	hard	nofile	65536	Set the file handle limit
syslog	hard	nofile	10240	Set the file handle limit

