

El objetivo de la práctica es monitorizar log's de forma centralizada, incluso filtrando por host's clientes, incluso al final de la misma incorporar log's a una Base de Datos → MariaDB, incluso tambien a una Base de Datos → postgresQL.

Utilizamos como SERVIDOR → 'centos2'; como CLIENTE → 'centos1', según configuración -vagrant- adjunta:

↘ ↘ ==> **Vagrantfile:**

```
Vagrant.configure("2") do |config|
  config.vm.define "centos1" do |centos|
    centos.vm.box = "centos/7"
    centos.vm.hostname = "centos1.lpic.lan"
    centos.vm.network "private_network", ip: "192.168.1.10",
      virtualbox__intnet: "intnet"
  end
  config.vm.define "centos2" do |centos|
    centos.vm.box = "centos/7"
    centos.vm.hostname = "centos2.lpic.lan"
    centos.vm.network "private_network", ip: "192.168.1.20",
      virtualbox__intnet: "intnet"
  end
end
```

↘ ↘ => **En los '2' respectivos:** → '/etc/hosts':

```
192.168.1.10 centos1.lpic.lan centos1
192.168.1.20 centos2.lpic.lan centos2
```

↘ ↘ +++ **Cliente -Rsyslog-** → 'centos1' +++

[root@centos1 ~]# yum search rsyslog

Loaded plugins: fastestmirror

Loading mirror speeds from cached hostfile

* base: ftp.cica.es

* extras: ftp.cica.es

* updates: mirror.airenetworks.es

```
=====
===== N/S matched: rsyslog
=====
```

pcp-pmda-rsyslog.x86_64 : Performance Co-Pilot (PCP) metrics for Rsyslog

rsyslog-doc.x86_64 : HTML Documentation for rsyslog
rsyslog-elasticsearch.x86_64 : Elasticsearch output module for rsyslog
rsyslog-gnutls.x86_64 : TLS protocol support for rsyslog
rsyslog-gssapi.x86_64 : GSSAPI authentication and encryption support for rsyslog
rsyslog-libdbi.x86_64 : Libdbi database support for rsyslog
rsyslog-mmnormalize.x86_64 : Log normalization support for rsyslog
rsyslog-mysql.x86_64 : MySQL support for rsyslog
rsyslog-pgsql.x86_64 : PostgreSQL support for rsyslog
rsyslog-relp.x86_64 : RELP protocol support for rsyslog
rsyslog-snmp.x86_64 : SNMP protocol support for rsyslog
rsyslog.x86_64 : Enhanced system logging and kernel message trapping daemon
rsyslog-crypto.x86_64 : Encryption support
rsyslog-mmaudit.x86_64 : Message modification module supporting Linux audit format
rsyslog-mmjsonparse.x86_64 : JSON enhanced logging support
rsyslog-mmsnmptrapd.x86_64 : Message modification module for snmptrapd generated messages
rsyslog-udpspoof.x86_64 : Provides the omudpspoof module

[root@centos1 ~]# systemctl status rsyslog.service

```
● rsyslog.service - System Logging Service
   Loaded: loaded (/usr/lib/systemd/system/rsyslog.service; enabled; vendor preset:
   enabled)
   Active: active (running) since Wed 2017-10-18 07:08:46 UTC; 1h 0min ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
  Main PID: 548 (rsyslogd)
    CGroup: /system.slice/rsyslog.service
            └─548 /usr/sbin/rsyslogd -n
```

```
Oct 18 07:08:46 centos1.lpic.lan systemd[1]: Starting System Logging Service...
Oct 18 07:08:46 centos1.lpic.lan rsyslogd[548]: [origin software="rsyslogd"
swVersion="8.24.0" x-pid="548" x-info="http://www.rsyslog.com"] start
Oct 18 07:08:46 centos1.lpic.lan systemd[1]: Started System Logging Service.
```

[root@centos1 ~]# systemctl status chronyd.service

```
● chronyd.service - NTP client/server
   Loaded: loaded (/usr/lib/systemd/system/chronyd.service; enabled; vendor preset:
   enabled)
   Active: active (running) since Wed 2017-10-18 07:08:46 UTC; 1h 2min ago
```

```
Docs: man:chronyd(8)
      man:chrony.conf(5)
Process: 569 ExecStartPost=/usr/libexec/chrony-helper update-daemon
(code=exited, status=0/SUCCESS)
Process: 554 ExecStart=/usr/sbin/chronyd $OPTIONS (code=exited,
status=0/SUCCESS)
Main PID: 568 (chronyd)
CGroup: /system.slice/chronyd.service
└─568 /usr/sbin/chronyd
```

```
Oct 18 07:08:46 centos1.lpic.lan systemd[1]: Starting NTP client/server...
Oct 18 07:08:46 centos1.lpic.lan chronyd[568]: chronyd version 3.1 starting
(+CMDMON +NTP +REFCLOCK +RTC +PRIVDROP +SCFILTER +SECHASH
+SIGND +ASYNCDNS +IPV6 +DEBUG)
Oct 18 07:08:46 centos1.lpic.lan chronyd[568]: Frequency 7.550 +/- 14.056 ppm read
from /var/lib/chrony/drift
Oct 18 07:08:46 centos1.lpic.lan systemd[1]: Started NTP client/server.
Oct 18 07:08:56 centos1.lpic.lan chronyd[568]: Selected source 193.145.15.15
```

```
[root@centos1 ~]# yum provides certtool
```

```
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* base: ftp.cica.es
* extras: ftp.cica.es
* updates: mirror.airenetworks.es
base/7/x86_64/filelists_db
| 6.7 MB 00:00:13
extras/7/x86_64/filelists_db
| 391 kB 00:00:00
updates/7/x86_64/filelists_db
| 1.5 MB 00:00:03
gnutls-utils-3.3.26-9.el7.x86_64 : Command line tools for TLS protocol
Repo      : base
Matched from:
Filename  : /usr/bin/certtool
```

```
[root@centos1 ~]# yum install gnutls-utils -y
```

[↪ Creación de Certificados, ... con 'certtool', ...:](#)

```
[root@centos1 ~]# certtool --generate-privkey --outfile ca-key.pem
```

Generating a 2048 bit RSA private key...

```
[root@centos1 ~]# ll
```

total 24

```
-rw-----, 1 root root 5720 Sep 11 18:39 anaconda-ks.cfg
```

```
-rw-----, 1 root root 5826 Oct 18 08:25 ca-key.pem
```

```
-rw-----, 1 root root 5389 Sep 11 18:39 original-ks.cfg
```

```
[root@centos1 ~]# chmod 400 ca-key.pem
```

```
[root@centos1 ~]# ll
```

total 24

```
-rw-----, 1 root root 5720 Sep 11 18:39 anaconda-ks.cfg
```

```
-r-----, 1 root root 5826 Oct 18 08:25 ca-key.pem
```

```
-rw-----, 1 root root 5389 Sep 11 18:39 original-ks.cfg
```

```
[root@centos1 ~]# certtool --generate-self-signed --load-privkey ca-key.pem --outfile ca.pem
```

Generating a self signed certificate...

Please enter the details of the certificate's distinguished name. Just press enter to ignore a field.

Common name: centos1.lpic.lan

UID:

Organizational unit name:

Organization name:

Locality name:

State or province name:

Country name (2 chars):

Enter the subject's domain component (DC):

This field should not be used in new certificates.

E-mail:

Enter the certificate's serial number in decimal (default: 6478165668233946494): 1

Activation/Expiration time.

The certificate will expire in (days): 3650

Extensions.

Does the certificate belong to an authority? (y/N): y

Path length constraint (decimal, -1 for no constraint): -1

Is this a TLS web client certificate? (y/N):

Will the certificate be used for IPsec IKE operations? (y/N):

Is this a TLS web server certificate? (y/N):

Enter a dnsName of the subject of the certificate: centos1.lpic.lan

Enter a dnsName of the subject of the certificate:

Enter a URI of the subject of the certificate:

Enter the IP address of the subject of the certificate:

Enter the e-mail of the subject of the certificate:

Will the certificate be used to sign OCSP requests? (y/N):

Will the certificate be used to sign code? (y/N):

Will the certificate be used for time stamping? (y/N):

Will the certificate be used to sign other certificates? (y/N): y

Will the certificate be used to sign CRLs? (y/N):

Enter the URI of the CRL distribution point:

X.509 Certificate Information:

Version: 3

Serial Number (hex): 01

Validity:

Not Before: Wed Oct 18 08:31:34 UTC 2017

Not After: Sat Oct 16 08:31:48 UTC 2027

Subject: CN=centos1.lpic.lan

Subject Public Key Algorithm: RSA

Algorithm Security Level: Medium (2048 bits)

Modulus (bits 2048):

00:ab:ab:79:dc:da:85:d6:fb:0d:a6:b4:fb:89:57:50
fa:13:9f:5d:fe:46:b9:12:f0:12:27:70:bc:48:0a:8c
21:7c:30:93:d3:2f:ad:c4:a3:0e:79:5d:9a:84:67:b6
65:40:2e:80:43:73:c8:3f:79:72:5f:e2:33:57:a1:1e
71:64:fe:d7:07:c2:72:42:58:af:bb:3e:cb:b0:d1:7d
1f:3b:19:0d:b8:38:86:c3:33:bb:ab:e5:4d:7c:9b:ee
82:54:f6:03:0f:b9:6b:c3:87:6c:eb:e8:db:dd:86:87
d4:36:ca:26:a5:95:af:0f:ad:9b:44:f6:30:7e:7c:e7
ad:87:b6:29:08:36:08:1c:b1:9f:76:ba:8d:7b:f2:ed
79:40:20:ad:6c:46:2b:22:15:5f:cc:79:17:e9:5b:d8
d2:84:f6:32:be:d5:21:d8:34:b9:1f:9f:9f:7b:f5:2b
fe:1a:47:d0:bf:9b:a6:1f:c3:e9:a6:8e:fe:5f:b5:34
ea:39:9c:4c:6c:4b:e9:c0:14:33:34:48:08:4c:c1:c9
36:a8:4b:42:f9:65:6a:83:df:09:79:af:d0:c1:03:68
d6:11:d2:b2:b4:ef:35:df:88:01:59:1d:dc:e1:57:41
a7:cc:07:a2:08:6d:3a:f4:9d:2e:aa:cd:8f:c3:80:6e
67

Exponent (bits 24):

01:00:01

Extensions:

Basic Constraints (critical):

Certificate Authority (CA): TRUE

Subject Alternative Name (not critical):

DNSname: centos1.lpic.lan

Key Usage (critical):

Certificate signing.

Subject Key Identifier (not critical):

75c4d87f06e29977afb594425dce75529a53dde6

Other Information:

Public Key ID:

75c4d87f06e29977afb594425dce75529a53dde6

Public key's random art:

```
+--[ RSA 2048]-----+
```

```
|      +. .|=|
```

```
|     ..+ o+B|
```

```
|     ...==B+|
```

```
|    . .+.ooE|
```

```
|   S  .. +o|
```

```
|     . oo|
```

```
|     oo.|
```

```
|     .. |
```

```
|     |
```

```
+-----+
```

Is the above information ok? (y/N): y

Signing certificate...

[root@centos1 ~]# ll

total 28

-rw-----, 1 root root 5720 Sep 11 18:39 anaconda-ks.cfg

-r-----, 1 root root 5826 Oct 18 08:25 ca-key.pem

-rw-r--r--, 1 root root 1123 Oct 18 08:33 ca.pem

-rw-----, 1 root root 5389 Sep 11 18:39 original-ks.cfg

```
[root@centos1 ~]# certtool --generate-privkey --outfile centos2-key.pem --bits 2048
```

```
** Note: Please use the --sec-param instead of --bits  
Generating a 2048 bit RSA private key...
```

```
[root@centos1 ~]# ll
```

```
total 36  
-rw-----, 1 root root 5720 Sep 11 18:39 anaconda-ks.cfg  
-r-----, 1 root root 5826 Oct 18 08:25 ca-key.pem  
-rw-r--r--, 1 root root 1123 Oct 18 08:33 ca.pem  
-rw-----, 1 root root 5813 Oct 18 08:38 centos2-key.pem  
-rw-----, 1 root root 5389 Sep 11 18:39 original-ks.cfg
```

```
[root@centos1 ~]# certtool --generate-request --load-privkey centos2-key.pem --outfile centos2-request.pem
```

```
Generating a PKCS #10 certificate request...
```

```
Common name: centos2.lpic.lan
```

```
Organizational unit name:
```

```
Organization name:
```

```
Locality name:
```

```
State or province name:
```

```
Country name (2 chars):
```

```
Enter the subject's domain component (DC):
```

```
UID:
```

```
Enter a dnsName of the subject of the certificate: centos2.lpic.lan
```

```
Enter a dnsName of the subject of the certificate:
```

```
Enter a URI of the subject of the certificate:
```

```
Enter the IP address of the subject of the certificate:
```

```
Enter the e-mail of the subject of the certificate:
```

```
Enter a challenge password:
```

```
Does the certificate belong to an authority? (y/N):
```

```
Will the certificate be used for signing (DHE and RSA-EXPORT ciphersuites)?  
(Y/n):
```

```
Will the certificate be used for encryption (RSA ciphersuites)? (Y/n):
```

```
Will the certificate be used to sign code? (y/N):
```

```
Will the certificate be used for time stamping? (y/N):
```

```
Will the certificate be used for IPsec IKE operations? (y/N):
```

```
Will the certificate be used to sign OCSP requests? (y/N):
```

```
Is this a TLS web client certificate? (y/N): y
```

```
Is this a TLS web server certificate? (y/N): y
```

```
[root@centos1 ~]# ll
```

```
total 40
```

```
-rw-----, 1 root root 5720 Sep 11 18:39 anaconda-ks.cfg  
-r-----, 1 root root 5826 Oct 18 08:25 ca-key.pem  
-rw-r--r--, 1 root root 1123 Oct 18 08:33 ca.pem  
-rw-----, 1 root root 5813 Oct 18 08:38 centos2-key.pem  
-rw-----, 1 root root 2516 Oct 18 08:42 centos2-request.pem  
-rw-----, 1 root root 5389 Sep 11 18:39 original-ks.cfg
```

```
[root@centos1 ~]# certtool --generate-certificate --load-request centos2-  
request.pem --outfile centos2-cert.pem --load-ca-certificate ca.pem --load-ca-  
privkey ca-key.pem
```

```
Generating a signed certificate...
```

```
Enter the certificate's serial number in decimal (default: 6478171144245925868): 1
```

```
Activation/Expiration time.
```

```
The certificate will expire in (days): 365
```

```
Extensions.
```

```
Do you want to honour the extensions from the request? (y/N):
```

```
Does the certificate belong to an authority? (y/N):
```

```
Is this a TLS web client certificate? (y/N): y
```

```
Will the certificate be used for IPsec IKE operations? (y/N):
```

```
Is this a TLS web server certificate? (y/N): y
```

```
Enter a dnsName of the subject of the certificate: centos2.lpic.lan
```

```
Enter a dnsName of the subject of the certificate:
```

```
Enter a URI of the subject of the certificate:
```

```
Enter the IP address of the subject of the certificate:
```

```
Will the certificate be used for signing (DHE and RSA-EXPORT ciphersuites)?
```

```
(Y/n):
```

```
Will the certificate be used for encryption (RSA ciphersuites)? (Y/n):
```

```
Will the certificate be used to sign OCSP requests? (y/N):
```

```
Will the certificate be used to sign code? (y/N):
```

```
Will the certificate be used for time stamping? (y/N):
```

```
X.509 Certificate Information:
```

```
Version: 3
```

```
Serial Number (hex): 01
```

```
Validity:
```


Not Before: Wed Oct 18 08:52:41 UTC 2017

Not After: Thu Oct 18 08:52:50 UTC 2018

Subject: CN=centos2.lpic.lan

Subject Public Key Algorithm: RSA

Algorithm Security Level: Medium (2048 bits)

Modulus (bits 2048):

00:a1:fe:52:7c:8c:16:f0:ec:22:0f:b2:6d:e5:8b:a2
17:66:d0:f4:bd:83:ea:97:c3:fd:32:46:60:e0:cf:db
c2:6d:69:d4:f8:3d:6f:36:c0:84:02:7f:49:2f:49:1a
23:37:93:a5:a3:25:e0:f4:a8:31:29:4e:1c:0c:45:91
a6:58:20:4d:77:83:ee:be:a1:a2:97:03:c5:b5:d8:01
e5:32:f7:19:e8:47:67:81:79:a1:bc:84:16:42:7a:f5
26:38:e3:01:08:11:c1:34:27:c9:3b:9b:78:e8:15:fd
b7:83:03:f8:8e:6a:14:d2:6e:66:4e:7b:92:50:2e:ea
be:cd:f5:e7:2a:e4:91:e3:df:79:41:ac:a7:57:80:a3
14:16:93:45:87:fd:25:9d:5f:d9:f8:54:43:c5:29:f9
11:cc:32:a8:a5:7c:4c:41:b2:6d:ca:73:1d:f3:7a:88
42:7c:ce:aa:f8:e0:2d:01:24:48:1f:17:78:53:ea:4f
4a:1e:d4:d7:46:a3:5c:16:cc:a2:b3:c1:57:cf:4f:a0
3e:33:92:c1:f7:99:2e:7b:a2:6f:69:19:fb:d7:43:7f
5e:14:c4:64:c4:54:db:5e:6b:9d:33:cc:df:0f:99:d7
c2:f6:9f:51:44:38:c9:81:a9:4a:ac:ba:42:f5:33:e7
eb

Exponent (bits 24):

01:00:01

Extensions:

Basic Constraints (critical):

Certificate Authority (CA): FALSE

Key Purpose (not critical):

TLS WWW Client.

TLS WWW Server.

Subject Alternative Name (not critical):

DNSname: centos2.lpic.lan

Key Usage (critical):

Digital signature.

Key encipherment.

Subject Key Identifier (not critical):

dab62ded0631f8b025d1a1d8a841c6e310e3d7e3

Authority Key Identifier (not critical):

75c4d87f06e29977afb594425dce75529a53dde6

Other Information:

Public Key ID:

dab62ded0631f8b025d1a1d8a841c6e310e3d7e3

Public key's random art:

+--[RSA 2048]-----+

```
|ooo  ...  |
|o+o .+...  |
|+.ooooo    |
| oo. = +    |
|. E *So     |
|.oo         |
|.oo         |
|..oo        |
|. +o        |
```

+-----+

Is the above information ok? (y/N): y

Signing certificate...

[root@centos1 ~]# ll

total 44

```
-rw-----, 1 root root 5720 Sep 11 18:39 anaconda-ks.cfg
-r-----, 1 root root 5826 Oct 18 08:25 ca-key.pem
-rw-r--r--, 1 root root 1123 Oct 18 08:33 ca.pem
-rw-r--r--, 1 root root 1208 Oct 18 08:53 centos2-cert.pem
-rw-----, 1 root root 5813 Oct 18 08:38 centos2-key.pem
-rw-----, 1 root root 2516 Oct 18 08:42 centos2-request.pem
-rw-----, 1 root root 5389 Sep 11 18:39 original-ks.cfg
```

[↘ ↘ +++ Servidor -Rsyslog- → 'centos2' +++](#)

[root@centos2 ~]# mkdir /etc/rsyslog-keys

[root@centos2 ~]# cd /etc/rsyslog-keys/

↘ Copiar desde 'centos1':

[root@centos1 ~]# scp ca.pem centos2-cert.pem centos2-key.pem

root@centos2:/etc/rsyslog-keys/

```
The authenticity of host 'centos2 (192.168.1.20)' can't be established.  
ECDSA key fingerprint is  
SHA256:1ENd1dhwY6/DPTloqFBALizGAlNZhmEXJEQqzm4cbfM.  
ECDSA key fingerprint is MD5:b2:8b:2e:40:cf:e2:c4:f1:a2:0d:f9:46:29:44:21:42.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added 'centos2,192.168.1.20' (ECDSA) to the list of known  
hosts.  
root@centos2's password:  
ca.pem  
100% 1123 1.4MB/s 00:00  
centos2-cert.pem  
100% 1208 1.7MB/s 00:00  
centos2-key.pem  
100% 5813 7.2MB/s 00:00
```

```
[root@centos2 rsyslog-keys]# ll
```

```
total 16  
-rw-r--r--. 1 root root 1123 Oct 18 09:03 ca.pem  
-rw-r--r--. 1 root root 1208 Oct 18 09:03 centos2-cert.pem  
-rw-----. 1 root root 5813 Oct 18 09:03 centos2-key.pem
```

↳ Incorporar rutas en Server → 'centos2':

```
[root@centos2 rsyslog-keys]# vi /etc/rsyslog.d/server.conf
```

```
$DefaultNetstreamDriver gtls  
$DefaultNetstreamDriverCAFile /etc/rsyslog-keys/ca.pem  
$DefaultNetstreamDriverCertFile /etc/rsyslog-keys/centos2-cert.pem  
$DefaultNetstreamDriverKeyFile /etc/rsyslog-keys/centos2-key.pem
```

```
#$ModLoad imtcp ↳ Habilitamos este módulo posteriormente.
```

```
$InputTCPServerStreamDriverMode 1  
$InputTCPServerStreamDriverAuthMode anon  
$InputTCPServerRun 6514
```

```
[root@centos2 rsyslog-keys]# systemctl restart rsyslog.service
```

```
[root@centos2 rsyslog-keys]# systemctl status rsyslog.service
```

```
● rsyslog.service - System Logging Service  
Loaded: loaded (/usr/lib/systemd/system/rsyslog.service; enabled; vendor preset:  
enabled)
```

Active: active (running) since Wed 2017-10-18 09:13:29 UTC; 3s ago

Docs: man:rsyslogd(8)

<http://www.rsyslog.com/doc/>

Main PID: 23333 (rsyslogd)

CGroup: /system.slice/rsyslog.service

└─23333 /usr/sbin/rsyslogd -n

Oct 18 09:13:29 centos2.lpic.lan systemd[1]: Starting System Logging Service...

Oct 18 09:13:29 centos2.lpic.lan rsyslogd[23333]: [origin software="rsyslogd" swVersion="8.24.0" x-pid="23333" x-info="http://www.rsyslog.com"] start

Oct 18 09:13:29 centos2.lpic.lan rsyslogd[23333]: could not load module '/usr/lib64/rsyslog/lmnsd_gtls.so', dlopen: /usr/lib64/rsyslog/lmnsd_gtls.so: cannot ope...m/e/2066]

Oct 18 09:13:29 centos2.lpic.lan rsyslogd[23333]: tcpsrv could not create listener (inputname: 'imtcp') [v8.24.0 try <http://www.rsyslog.com/e/2066>]

Oct 18 09:13:29 centos2.lpic.lan rsyslogd[23333]: activation of module imtcp failed [v8.24.0 try <http://www.rsyslog.com/e/2066>]

Oct 18 09:13:29 centos2.lpic.lan systemd[1]: Started System Logging Service.

Hint: Some lines were ellipsized, use -l to show in full.

[root@centos2 rsyslog-keys]# yum provides */lmnsd_gtls.so

Loaded plugins: fastestmirror

Loading mirror speeds from cached hostfile

* base: mirror.tedra.es

* extras: mirror.tedra.es

* updates: mirror.tedra.es

base/7/x86_64/filelists_db

| 6.7 MB 00:00:08

extras/7/x86_64/filelists_db

| 391 kB 00:00:00

updates/7/x86_64/filelists_db

| 1.5 MB 00:00:01

rsyslog-gnutls-8.24.0-12.el7.x86_64 : TLS protocol support for rsyslog

Repo : base

Matched from:

Filename : /usr/lib64/rsyslog/lmnsd_gtls.so

[root@centos2 rsyslog-keys]# yum install rsyslog-gnutls -y

```
[root@centos2 rsyslog-keys]# systemctl restart rsyslog.service
```

```
[root@centos2 rsyslog-keys]# systemctl status rsyslog.service
```

```
● rsyslog.service - System Logging Service
```

```
Loaded: loaded (/usr/lib/systemd/system/rsyslog.service; enabled; vendor preset:
enabled)
```

```
Active: active (running) since Wed 2017-10-18 09:22:46 UTC; 4s ago
```

```
Docs: man:rsyslogd(8)
```

```
http://www.rsyslog.com/doc/
```

```
Main PID: 23446 (rsyslogd)
```

```
CGroup: /system.slice/rsyslog.service
```

```
└─23446 /usr/sbin/rsyslogd -n
```

```
Oct 18 09:22:46 centos2.lpic.lan systemd[1]: Starting System Logging Service...
```

```
Oct 18 09:22:46 centos2.lpic.lan rsyslogd[23446]: [origin software="rsyslogd"
swVersion="8.24.0" x-pid="23446" x-info="http://www.rsyslog.com"] start
```

```
Oct 18 09:22:46 centos2.lpic.lan systemd[1]: Started System Logging Service.
```

```
[root@centos2 rsyslog-keys]# netstat -tulpen
```

```
Active Internet connections (only servers)
```

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State	User
tcp	0	0	0.0.0.0:111	0.0.0.0:*	LISTEN	13603
1/systemd						
tcp	0	0	0.0.0.0:6514	0.0.0.0:*	LISTEN	48289
23446/rsyslogd						
tcp	0	0	0.0.0.0:22	0.0.0.0:*	LISTEN	46817
23127/sshd						
tcp	0	0	127.0.0.1:25	0.0.0.0:*	LISTEN	17133
952/master						
tcp6	0	0	:::111	:::*	LISTEN	13602
1/systemd						
tcp6	0	0	:::6514	:::*	LISTEN	48290
23446/rsyslogd						
tcp6	0	0	:::22	:::*	LISTEN	46819
23127/sshd						
tcp6	0	0	:::1:25	:::*	LISTEN	17134
952/master						
udp	0	0	127.0.0.1:323	0.0.0.0:*	0	14098
563/chronyd						
udp	0	0	0.0.0.0:68	0.0.0.0:*	0	22098

```
2246/dhclient
udp    0    0 0.0.0.0:27259      0.0.0.0:*          0      22009
2246/dhclient
udp6   0    0 ::1:323            :::*                0      14099
563/chronyd
udp6   0    0 :::6528            :::*                0      22010
2246/dhclient
```

```
[root@centos2 rsyslog-keys]# getent services 6514
```

```
syslog-tls      6514/tcp
```

[↘ ↘ +++ Cliente -Rsyslog- → 'centos1' +++](#)

[↘ Generamos → 'client.conf' → ↘ ↘ /etc/rsyslog.d/client.conf](#)

```
[root@centos1 ~]# vi /etc/rsyslog.d/client.conf
```

```
$DefaultNetstreamDriverCAFile /etc/rsyslog-keys/ca.pem
```

```
$DefaultNetstreamDriver gtls
```

```
$ActionSendStreamDriverMode 1
```

```
$ActionSendStreamDriverAuthMode anon
```

```
*.* @@(o)centos2.lpic.lan:6514
```

```
[root@centos1 ~]# mkdir /etc/rsyslog-keys
```

```
[root@centos1 ~]# cp /root/ca.pem /etc/rsyslog-keys/
```

```
[root@centos1 ~]# systemctl restart rsyslog.service
```

```
[root@centos1 ~]# systemctl status rsyslog.service
```

● rsyslog.service - System Logging Service

Loaded: loaded (/usr/lib/systemd/system/rsyslog.service; enabled; vendor preset: enabled)

Active: active (running) since Wed 2017-10-18 22:42:48 UTC; 5s ago

Docs: man:rsyslogd(8)

<http://www.rsyslog.com/doc/>

Main PID: 3046 (rsyslogd)

CGroup: /system.slice/rsyslog.service

└─3046 /usr/sbin/rsyslogd -n

```
Oct 18 22:42:48 centos1.lpic.lan systemd[1]: Starting System Logging Service...
```

```
Oct 18 22:42:48 centos1.lpic.lan rsyslogd[3046]: [origin software="rsyslogd"
swVersion="8.24.0" x-pid="3046" x-info="http://www.rsyslog.com"] start
Oct 18 22:42:48 centos1.lpic.lan systemd[1]: Started System Logging Service.
Oct 18 22:42:48 centos1.lpic.lan rsyslogd[3046]: could not load module
'/usr/lib64/rsyslog/lmnsd_gtls.so', dlopen: /usr/lib64/rsyslog/lmnsd_gtls.so: cannot
open...m/e/2066 ]
Oct 18 22:42:48 centos1.lpic.lan rsyslogd[3046]: could not load module
'/usr/lib64/rsyslog/lmnsd_gtls.so', dlopen: /usr/lib64/rsyslog/lmnsd_gtls.so: cannot
open...m/e/2066 ]
Oct 18 22:42:48 centos1.lpic.lan rsyslogd[3046]: action 'action 0' suspended, next
retry is Wed Oct 18 22:43:18 2017 [v8.24.0 try http://www.rsyslog.com/e/2007 ]
Hint: Some lines were ellipsized, use -l to show in full.
```

```
[root@centos1 ~]# yum provides */lmnsd_gtls.so
```

```
Loaded plugins: fastestmirror
```

```
Loading mirror speeds from cached hostfile
```

```
* base: ftp.cica.es
```

```
* extras: ftp.cica.es
```

```
* updates: mirror.airenetworks.es
```

```
rsyslog-gnutls-8.24.0-12.el7.x86_64 : TLS protocol support for rsyslog
```

```
Repo      : base
```

```
Matched from:
```

```
Filename  : /usr/lib64/rsyslog/lmnsd_gtls.so
```

```
[root@centos1 ~]# yum install rsyslog-gnutls -y
```

```
...
```

```
[root@centos1 ~]# systemctl restart rsyslog.service
```

```
[root@centos1 ~]# systemctl status rsyslog.service
```

```
● rsyslog.service - System Logging Service
```

```
Loaded: loaded (/usr/lib/systemd/system/rsyslog.service; enabled; vendor preset:
enabled)
```

```
Active: active (running) since Wed 2017-10-18 22:48:02 UTC; 16s ago
```

```
Docs: man:rsyslogd(8)
```

```
http://www.rsyslog.com/doc/
```

```
Main PID: 3067 (rsyslogd)
```

```
CGroup: /system.slice/rsyslog.service
```

```
└─3067 /usr/sbin/rsyslogd -n
```

```
Oct 18 22:48:02 centos1.lpic.lan systemd[1]: Starting System Logging Service...
```

```
Oct 18 22:48:02 centos1.lpic.lan rsyslogd[3067]: [origin software="rsyslogd"  
swVersion="8.24.0" x-pid="3067" x-info="http://www.rsyslog.com"] start  
Oct 18 22:48:02 centos1.lpic.lan systemd[1]: Started System Logging Service.
```



↘ ↘ +++ PRUEBA -SIN FILTRAR- → 'logs' +++

Miauuuuuu,

```
[root@centos1 ~]# logger Hola mi amor, que gatita mas linda, ...
```

```
[root@centos2 ~]# tail /var/log/messages
```

```
Oct 18 23:01:01 centos1 systemd: Starting Session 8 of user root.  
Oct 18 23:01:01 centos2 systemd: Created slice User Slice of root.  
Oct 18 23:01:01 centos2 systemd: Starting User Slice of root.  
Oct 18 23:01:01 centos2 systemd: Started Session 8 of user root.  
Oct 18 23:01:01 centos2 systemd: Starting Session 8 of user root.  
Oct 18 23:01:01 centos1 systemd: Removed slice User Slice of root.  
Oct 18 23:01:01 centos1 systemd: Stopping User Slice of root.  
Oct 18 23:01:01 centos2 systemd: Removed slice User Slice of root.  
Oct 18 23:01:01 centos2 systemd: Stopping User Slice of root.  
Oct 18 23:11:12 centos1 vagrant: Hola mi amor, que gatita mas linda, ...
```

↘ ↘ +++ FILTRADO de -Rsyslog- → 'centos2' → SERVIDOR +++

↘ +++ Servidor -Rsyslog- → 'centos2' +++

```
[root@centos2 ~]# mkdir /var/log/rsyslog
```

```
[root@centos2 etc]# vi /etc/rsyslog.conf
```

↘ Habilitamos lo siguiente:

```
# Provides UDP syslog reception  
$ModLoad imudp  
$UDPServerRun 514
```

```
# Provides TCP syslog reception  
$ModLoad imtcp  
$InputTCPServerRun 514
```



```
[root@centos2 etc]# systemctl restart rsyslog.service
```

```
[root@centos2 etc]# systemctl status rsyslog.service
```

```
● rsyslog.service - System Logging Service
```

```
Loaded: loaded (/usr/lib/systemd/system/rsyslog.service; enabled; vendor preset: enabled)
```

```
Active: active (running) since Thu 2017-10-19 13:40:11 UTC; 2s ago
```

```
Docs: man:rsyslogd(8)
```

```
http://www.rsyslog.com/doc/
```

```
Main PID: 4520 (rsyslogd)
```

```
CGroup: /system.slice/rsyslog.service
```

```
└─4520 /usr/sbin/rsyslogd -n
```

```
Oct 19 13:40:11 centos2.lpic.lan systemd[1]: Starting System Logging Service...
```

```
Oct 19 13:40:11 centos2.lpic.lan rsyslogd[4520]: [origin software="rsyslogd" swVersion="8.24.0" x-pid="4520" x-info="http://www.rsyslog.com"] start
```

```
Oct 19 13:40:11 centos2.lpic.lan systemd[1]: Started System Logging Service.
```

```
[root@centos2 etc]# vi /etc/rsyslog.conf
```

```
↳ Añadimos lo siguiente:
```

```
#### RULES ####
```

```
## REGLAS AÑADIDAS:
```

```
$template TmplAuth, "/var/log/rsyslog/%HOSTNAME%/%PROGRAMNAME%.log"
```

```
$template TmplMsg, "/var/log/rsyslog/%HOSTNAME%/%PROGRAMNAME%.log"
```

```
authpriv.* ?TmplAuth
```

```
*.info,mail.none,authpriv.none,cron.none ?TmplMsg
```

```
[root@centos2 etc]# systemctl restart rsyslog.service
```

```
[root@centos2 etc]# systemctl status rsyslog.service
```

```
● rsyslog.service - System Logging Service
```

```
Loaded: loaded (/usr/lib/systemd/system/rsyslog.service; enabled; vendor preset: enabled)
```

```
Active: active (running) since Thu 2017-10-19 13:51:50 UTC; 2s ago
```

```
Docs: man:rsyslogd(8)
```

```
http://www.rsyslog.com/doc/
```

```
Main PID: 4615 (rsyslogd)
```

```
CGroup: /system.slice/rsyslog.service
└─4615 /usr/sbin/rsyslogd -n
```

```
Oct 19 13:51:50 centos2.lpic.lan systemd[1]: Starting System Logging Service...
Oct 19 13:51:50 centos2.lpic.lan rsyslogd[4615]: [origin software="rsyslogd"
swVersion="8.24.0" x-pid="4615" x-info="http://www.rsyslog.com"] start
Oct 19 13:51:50 centos2.lpic.lan systemd[1]: Started System Logging Service.
```



↘ ↘ +++ PRUEBA -FILTRANDO- → 'logs' +++

MiauuuuuuMiauuuu,

```
[root@centos1 ~]# logger PRUEBA DE FILTRADO DE logs POR ANFITRION
+++
```

```
[root@centos2 rsyslog]# pwd
```

```
/var/log/rsyslog
```

```
[root@centos2 rsyslog]# ls
```

```
centos1 centos2
```

```
[root@centos2 rsyslog]# ls centos1/
```

```
chronyd.log  dbus.log  kernel.log  rsyslogd.log  sshd.log  systemd.log
```

```
systemd-udev.log  yum.log
```

```
dbus-daemon.log  groupmod.log  polkitd.log  sm-notify.log  su.log  systemd-
logind.log  vagrant.log
```

```
[root@centos2 rsyslog]# cat centos1/vagrant.log
```

```
...
```

```
Oct 23 14:46:30 centos1 vagrant: PRUEBA DE FILTRADO DE logs POR
ANFITRION +++
```

↳ [+++ Creamos -snapshot para utilización posterior +++](#)

```
[labs@hp rsyslog]$ vagrant snapshot save Rsyslog-SIN_MySQL
==> centos1: Snapshotting the machine as 'Rsyslog-SIN_MySQL'...
==> centos1: Snapshot saved! You can restore the snapshot at any time by
==> centos1: using `vagrant snapshot restore`. You can delete it using
==> centos1: `vagrant snapshot delete`.
==> centos2: Snapshotting the machine as 'Rsyslog-SIN_MySQL'...
==> centos2: Snapshot saved! You can restore the snapshot at any time by
==> centos2: using `vagrant snapshot restore`. You can delete it using
==> centos2: `vagrant snapshot delete`.
```

===> **BIBLIOGRAFIA:**

http://www.rsyslog.com/doc/v8-stable/tutorials/tls_cert_ca.html
<http://www.alcancelibre.org/staticpages/index.php/configuracion-rsyslog>

===> **LEGAL:**

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