



Linux/Debian

Diagnóstico básico de servidores

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1 Tabla resumen

SERVICIO	COMANDO	DESCRIPCIÓN
DHCP	<code>dhcpd -t</code>	(test) Comprobar sintaxis fichero configuración
ISC DHCP Server	<code>dhcpd -T</code>	(Test) Comprobar sintaxis fichero concesiones
isc-dhcp-server	<code>dhcpd -d</code>	(debug) Mostrar mensajes de log por pantalla.
	<code>cat /var/log/syslog grep dhcpd</code>	Fichero de log
DNS	<code>named-checkconf</code>	Comprobar sintaxis fichero de configuración <i>named.conf.local</i>
Bind	<code>named-checkzone example.com /etc/bind/db.example.com</code>	Comprobar sintaxis fichero de zona
bind9	<code>cat /var/log/syslog grep named</code>	Fichero de log
	<code>named -v</code>	Mostrar versión
FTP	<code>vsftpd</code>	Comprobar sintaxis fichero configuración
<code>vsftpd</code>	<code>cat /var/log/syslog grep vsftpd</code>	Fichero de log
vsftpd	<code>vsftpd -v</code>	(version) Mostrar version
HTTP	<code>apache2ctl configtest</code>	Comprobar sintaxis fichero configuración
Apache 2	<code>apache2ctl -t</code>	(test) Comprobar sintaxis fichero configuración
apache2	<code>/var/log/apache2/access.log</code>	Fichero de log de accesos
	<code>/var/log/apache2/error.log</code>	Fichero de log de errores
	<code>apache2ctl -M</code>	(Modules) Mostrar módulos, tanto los compilados como los cargados

	<code>apache2ctl -v</code>	(version) Mostrar versión
	<code>apache2ctl -V</code>	(Version) Mostrar versión y configuración de compilación
SMTP	<code>postconf -n</code>	(name) Mostrar parámetros configurados explícitamente en archivo
Postfix	<code>postconf -nf</code>	Idem pero dividiendo líneas para mejorar legibilidad
postfix	<code>postconf -p</code>	(parameter) Mostrar parámetros actuales: configurados + default
	<code>postconf -d</code>	(default) Mostrar todos los parámetros con su valor predeterminado
	<code>postconf -df</code>	Idem pero dividiendo líneas para mejorar legibilidad
	<code>postfix check</code>	Mostrar archivos/directorios con permisos incorrectos y crear nuevos directorios.
	<code>/var/log/mail.log</code>	Archivo de log (el que guarda toda actividad)
	<code>/var/log/mail.err</code>	Archivo de log (el que guarda sólo los errores)
POP/IMAP	<code>doveconf -n</code>	(name) Mostrar parámetros con valor distinto del predeterminado
Dovecot	<code>dovecot -n</code>	Idem
dovecot	<code>doveconf -a</code>	(all) Mostrar parámetros actuales: configurados + default
	<code>dovecot -a</code>	Idem
	<code>cat /var/log/syslog grep dovecot</code>	Archivo de log
	<code>dovecot -version</code>	Mostrar versión
SSH	<code>sshd -T</code>	(Test) Test extendido. Mostrar valores de configuración actuales.
OpenSSH	<code>cat /var/log/auth.log grep sshd</code>	Fichero de log de intentos de autenticación
ssh		

2 Ejemplos

2.1 DHCP – ISC DHCP Server

```
root@debian00:/# dhcpd -t
Internet Systems Consortium DHCP Server 4.3.1
Copyright 2004-2014 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/
Config file: /etc/dhcp/dhcpd.conf
Database file: /var/lib/dhcp/dhcpd.leases
PID file: /var/run/dhcpd.pid
/etc/dhcp/dhcpd.conf line 13: semicolon expected.
poption domain-name
    ^
Configuration file errors encountered -- exiting
```

```
root@debian00:/# dhcpd -d
Internet Systems Consortium DHCP Server 4.3.1
Copyright 2004-2014 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/
Config file: /etc/dhcp/dhcpd.conf
Database file: /var/lib/dhcp/dhcpd.leases
PID file: /var/run/dhcpd.pid
Wrote 0 leases to leases file.
Listening on LPF/eth0/08:00:27:44:61:ba/10.33.0.0/24
Sending on   LPF/eth0/08:00:27:44:61:ba/10.33.0.0/24
```

```
No subnet declaration for eth1 (192.168.1.234).  
** Ignoring requests on eth1.  If this is not what  
   you want, please write a subnet declaration  
   in your dhcpd.conf file for the network segment  
   to which interface eth1 is attached. **
```

```
Sending on      Socket/fallback/fallback-net  
There's already a DHCP server running.
```

```
root@debian00:/# cat /var/log/syslog | grep dhcpd  
...  
Mar 27 11:00:11 debian00 dhcpd: Config file: /etc/dhcp/dhcpd.conf  
Mar 27 11:00:11 debian00 dhcpd: Database file: /var/lib/dhcp/dhcpd.leases  
Mar 27 11:00:11 debian00 dhcpd: PID file: /var/run/dhcpd.pid  
Mar 27 11:00:11 debian00 dhcpd: Internet Systems Consortium DHCP Server 4.3.1  
Mar 27 11:00:11 debian00 dhcpd: Copyright 2004-2014 Internet Systems Consortium.  
Mar 27 11:00:11 debian00 dhcpd: All rights reserved.  
Mar 27 11:00:11 debian00 dhcpd: For info, please visit https://www.isc.org/software/dhcp/
```

2.2 DNS – Bind

```
root@debian00:/# named-checkconf  
/etc/bind/named.conf.local:10: 'naster' unexpected
```

```
root@debian00:/# named-checkzone asir00.net /etc/bind/db.asir00.net  
zone asir00.net/IN: loaded serial 1  
OK
```

```
root@debian00:/# cat /var/log/syslog | grep named
...
Mar 27 12:50:06 debian00 named[11372]: loading configuration from '/etc/bind/named.conf'
Mar 27 12:50:06 debian00 named[11372]: /etc/bind/named.conf.local:10: 'naster' unexpected
Mar 27 12:50:06 debian00 named[11372]: loading configuration: unexpected token
Mar 27 12:50:06 debian00 named[11372]: exiting (due to fatal error)
...
```

```
root@debian00:/# named -v
BIND 9.9.5-9+deb8u10-Debian (Extended Support Version)
```

2.3 FTP – vsftpd

```
root@debian00:/# vsftpd
500 OOPS: unrecognized variable in config file: llocal_enable
```

```
root@debian00:/# cat /var/log/syslog | grep vsftpd
Mar 27 13:22:29 debian00 systemd[1]: Stopping vsftpd FTP server...
Mar 27 13:22:29 debian00 systemd[1]: Starting vsftpd FTP server...
Mar 27 13:22:29 debian00 systemd[1]: Started vsftpd FTP server.
...
```

```
root@debian00:/# vsftpd -v
vsftpd: version 3.0.2
```

2.4 HTTP - Apache 2

apache2 es el programa servidor de HTTP.

En general, no debe invocarse directamente, sino a través de `/etc/init.d/apache2` o de `apache2ctl`

```
root@guara:~# apache2ctl configtest
Syntax OK
```

```
root@debian00:/# tail /var/log/apache2/access.log
...
10.222.50.106 - - [27/Mar/2017:09:32:36 +0200] "GET / HTTP/1.1" 200 3380 "-" "Mozilla/5.0 (Windows NT 6.1; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0"
10.222.50.106 - - [27/Mar/2017:09:32:36 +0200] "GET /icons/openlogo-75.png HTTP/1.1" 200 6040
"http://10.222.50.153/" "Mozilla/5.0 (Windows NT 6.1; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0"
...
```

```
root@debian00:/# tail -n 2 /var/log/apache2/error.log
[Wed Mar 22 13:29:48.964282 2017] [mpm_event:notice] [pid 4273:tid 139637554075520] AH00489: Apache/2.4.10 (Debian) configured -- resuming normal operations
[Wed Mar 22 13:29:48.964359 2017] [core:notice] [pid 4273:tid 139637554075520] AH00094: Command line: '/usr/sbin/apache2'
```

```
root@guara:~# apache2ctl -M
Loaded Modules:
  core_module (static)
  log_config_module (static)
  logio_module (static)
  version_module (static)
  mpm_prefork_module (static)
  http_module (static)
```

```
so_module (static)
alias_module (shared)
auth_basic_module (shared)
authn_file_module (shared)
authz_default_module (shared)
authz_groupfile_module (shared)
authz_host_module (shared)
authz_user_module (shared)
autoindex_module (shared)
```

```
root@debian00:/# apache2ctl -v
Server version: Apache/2.4.10 (Debian)
Server built:   Feb 24 2017 18:40:28
```

```
root@guara:~# apache2ctl -V
Server version: Apache/2.2.22 (Debian)
Server built:   Feb  8 2014 17:44:20
Server's Module Magic Number: 20051115:30
Server loaded:  APR 1.4.6, APR-Util 1.4.1
Compiled using: APR 1.4.6, APR-Util 1.4.1
Architecture:   32-bit
Server MPM:      Prefork
    threaded:    no
    forked:      yes (variable process count)
...
```


2.5 SMTP – Postfix

```
root@debian00:/# postconf -n | grep mydestination
mydestination = asir00.net, debian00.asir00.net, localhost.asir00.net, localhost
```

```
root@debian00:/# postconf -p | grep mydestination
mydestination = asir00.net, debian00.asir00.net, localhost.asir00.net, localhost
proxy_read_maps = $local_recipient_maps $mydestination $virtual_alias_maps $virtual_a
...
```

```
root@debian00:/# postconf -d | grep mydestination
mydestination = $myhostname, localhost.$mydomain, localhost
proxy_read_maps = $local_recipient_maps $mydestination $virtual_alias_maps $virtual_a
...
```

```
root@debian00:/# tail /var/log/mail.log
...
Mar 27 18:04:47 debian00 postfix/qmgr[12454]: 532A14E1D: from=<root@asir00.net>, size=305, nrcpt=1 (queue active)
Mar 27 18:04:47 debian00 postfix/local[13501]: 532A14E1D: to=<arturo@asir00.net>, orig_to=<arturo>, relay=local, delay=0.13, delays=0.09/0.01/0/0.04, dsn=5.1.1, status=bounced (unknown user: "arturo")
Mar 27 18:04:47 debian00 postfix/cleanup[13499]: 6F0824E32: message-id=<20170327160447.6F0824E32@debian00.asir00.net>
...
```

2.6 POP/MAP – Dovecot

```
root@debian00:/# doveconf -n
# 2.2.13: /etc/dovecot/dovecot.conf
# OS: Linux 3.16.0-4-amd64 x86_64 Debian 8.7
disable_plaintext_auth = no
mail_location = mbox:~/mail:INBOX=/var/mail/%u
...
```

```
root@debian00:/# doveconf -a
# 2.2.13: /etc/dovecot/dovecot.conf
# OS: Linux 3.16.0-4-amd64 x86_64 Debian 8.7
# NOTE: Send doveconf -n output instead when asking for help.
auth_anonymous_username = anonymous
auth_cache_negative_ttl = 1 hours
...
```

```
root@debian00:/# cat /var/log/syslog | grep dovecot
Mar 27 18:24:22 debian00 dovecot: imap-login: Login: user=<manolo>, method=PLAIN, rip=::1, lip=::1,
mpid=13734, secured, session=<P3imxrhLNQAAAAAAAAAAAAAAAAAAAAAB>
Mar 27 18:24:22 debian00 dovecot: imap(manolo): Error: file_dotlock_create(/var/mail/manolo) failed:
Permission denied (euid=1000(manolo) egid=1000(manolo) missing +w perm: /var/mail, we're not in group
8(mail), dir owned by 0:8 mode=0775) (set mail_privileged_group=mail)
Mar 27 18:24:22 debian00 dovecot: imap(manolo): Error: file_dotlock_create(/var/mail/manolo) failed:
Permission denied (euid=1000(manolo) egid=1000(manolo) missing +w perm: /var/mail, we're not in group
8(mail), dir owned by 0:8 mode=0775) (set mail_privileged_group=mail)
```

```
root@debian00:/# dovecot --version
2.2.13
```

2.7 SSH – OpenSSH

```
root@debian00:/# sshd -T
port 22
protocol 2
addressfamily any
listenaddress 0.0.0.0:22
listenaddress [::]:22
...
```

```
root@debian00:/# cat /var/log/auth.log | grep sshd
Mar 12 21:30:06 debian00 useradd[3650]: new user: name=sshd, UID=123, GID=65534,
home=/var/run/sshd, shell=/usr/sbin/nologin
Mar 12 21:30:07 debian00 usermod[3655]: change user 'sshd' password
Mar 12 21:30:07 debian00 chage[3660]: changed password expiry for sshd
Mar 12 21:30:08 debian00 sshd[3737]: Server listening on 0.0.0.0 port 22.
Mar 12 21:30:08 debian00 sshd[3737]: Server listening on :: port 22.
```

3 Fuentes

<http://pbs.twimg.com/media/Bzzwoc7CEAExfyw.png>