

[fortigate](#), [debug](#), [troubleshooting](#)

Debug

Con debug podemos analizar el flujo del tráfico de red de una conexión.

```
diagnose debug flow filter
clear      Clear filter.
vd         Index of virtual domain.
proto      Protocol number.
addr       IP address.
saddr      Source IP address.
daddr      Destination IP address.
port       port
sport      Source port.
dport      Destination port.
negate     Inverse filter.
```

Números de protocolos más usados

(<https://www.iana.org/assignments/protocol-numbers/protocol-numbers.xhtml>)

- Protocol number 1: ICMP
- Protocol number 6: TCP
- Protocol number 17: UDP

Para saber si estamos ejecutando algún filtro

```
diagnose debug info
```

Es muy importante después de ejecutar alguno de los comandos de debug, el borrar la traza y deshabilitar el debug

```
diag debug flow trace stop
diag debug reset
diag debug flow filter clear
diag debug disable
```

Como ejemplo vamos a analizar el tráfico desde una dirección ip hacia el servidor de google 8.8.8.8

Debug de un puerto

```
diag debug flow filter dport 25
diag debug enable
diag debug flow trace start 100
```

```
diagnose debug reset diagnose debug flow filter ? diagnose debug flow filter saddr 192.168.1.1
diagnose debug flow filter daddr 8.8.8.8 diagnose debug flow show console enable diagnose debug
```

```
enable diagnose debug flow trace start 10 diagnose debug disable </sxh>
```

debug de una dirección ip

```
diag debug flow filter addr 192.168.0.100
diag debug enable
diag debug flow trace start 100
```

DNS

```
diag debug reset
diag debug flow filter clear
diag debug flow filter port 53
```

a la hora de poner filtros podemos poner varios. Por ejemplo



```
diag debug flow filter port 53
diag debug flow filter addr 192.168.0.100
diag debug enable
diag debug flow trace start 100
```

OSPF

```
diagnose ip router ospf level info
diagnose ip router ospf all enable
diag debug enable
```

Significado de los flags de la traza

- [.] = Ack set
- [S] = Syn set
- [S.] = Syn set, Ack Set
- [F] = Fin set
- [F.] = Fin set, Ack Set
- [R] = Reset set
- [R.] = Reset set , Ack Set

Referencias

- <https://iserghini.com/2018/07/24/fortinet-fortigate-troubleshooting-traffic-flows/>
- <https://www.schalley.eu/2016/11/10/troubleshooting-fortigate-command-line-check-debugging-t-race-sniffer/>
- <https://kb.fortinet.com/kb/documentLink.do?externalID=FD31702>
- <https://kb.fortinet.com/kb/microsites/search.do?cmd=displayKC&docType=kc&externalId=FD30038>

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