

Watcher-1.5 - Release notes

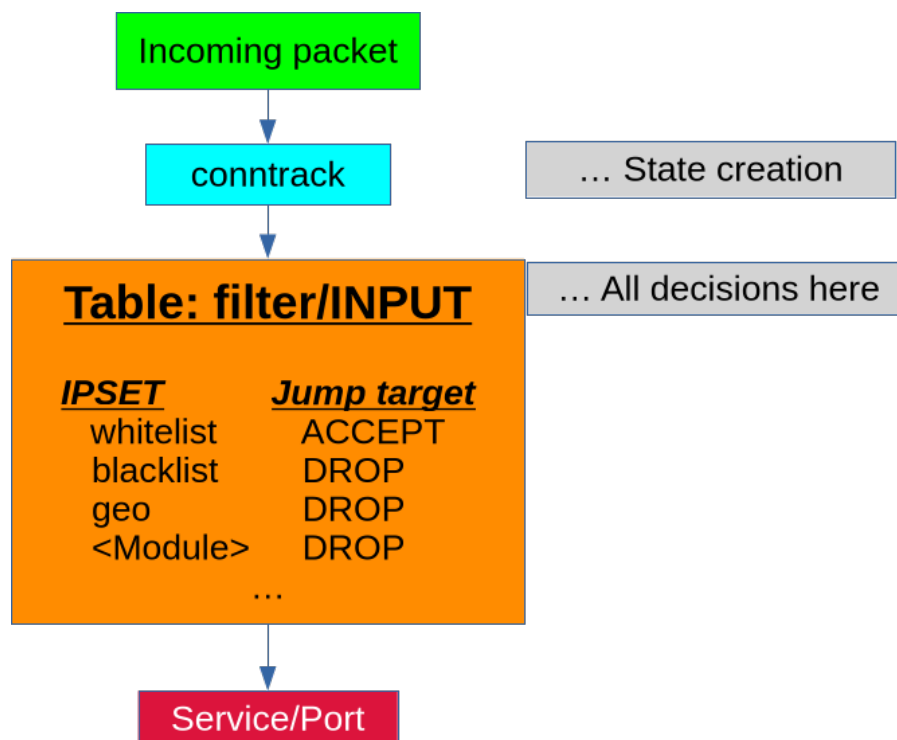
Watcher 1.5 is a consolidation release of Watcher 1.4/Prod

Major changes

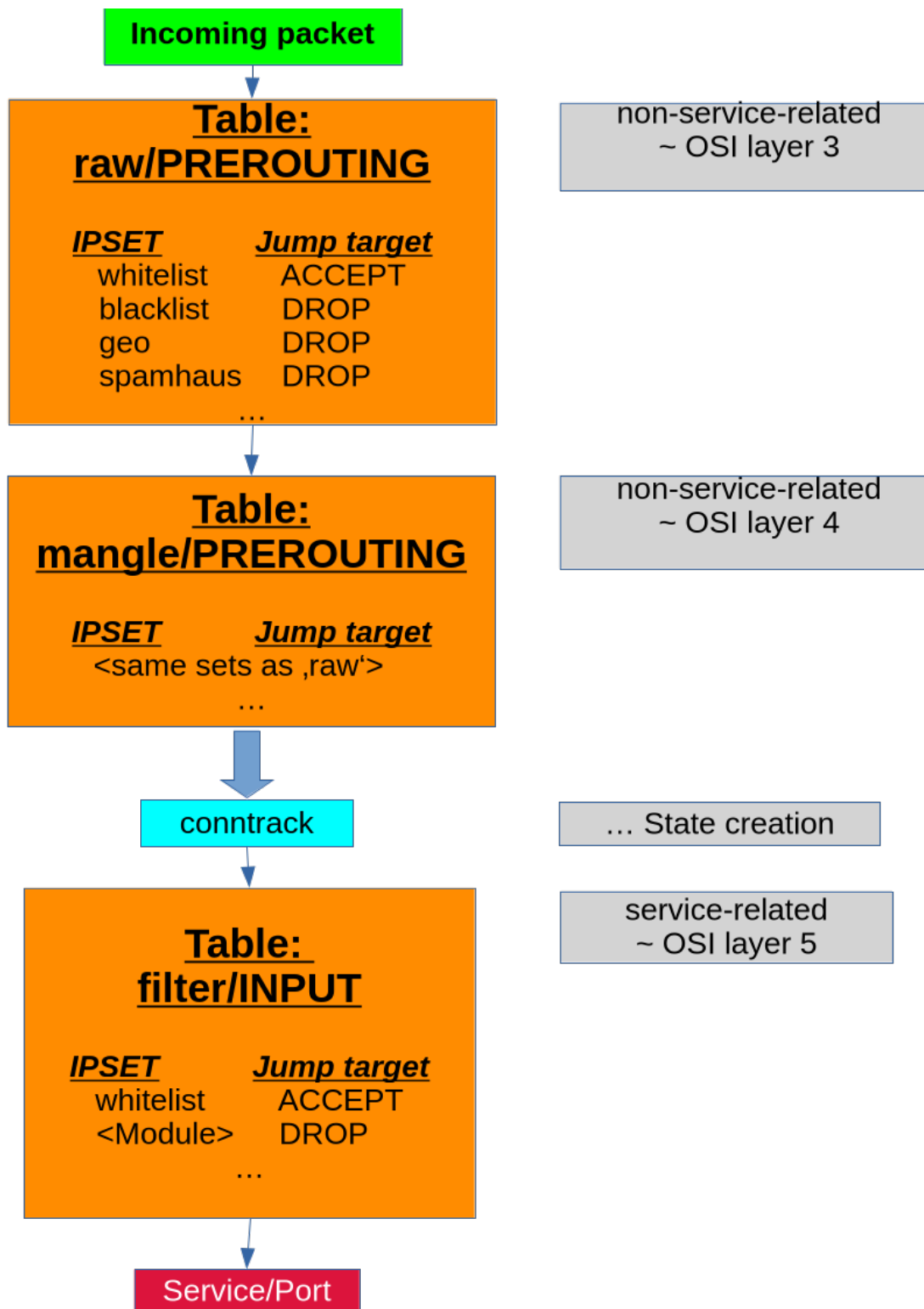
Watcher 1.4 established all IPSETs in the iptables 'filter' table (~OSI level 5; application layer). With the introduction of Geo-Blocking (dynloader 'geo') and Geo-Tracking (Pseudo-module 'GeoTrack')

This showed some flaws under certain circumstances where attackers unleashed requests to service ports that Watcher does not manage, or foreign protocols like ICMP in flood-pings, attacking the network adapter.

Such packets fell through to the 'filter' table and erratically pushed-up the packet counters.



Watcher 1.5 now blocks packets that are 'not_service_related' at 'raw/mangle; PREROUTING' stage which is ~OSI level 3; i.e., simply by their IP address without taking care of protocol and/or service port. This means illegal protocols and or service ports are strictly getting a DROP before reaching the 'filter' stage.



This strictly separates attacks on the NIC (e.g. flood-pings and illegal/unmanaged ports) from attacks on services and avoids that the counters in 'filter' are not pushed-up erratically and reflect the legal access to the services at the 'application layer' (~OSI 5)

(Efficiency-Report; 'Watcher-Report -e')

[root@comserve-it-services Watcher-1.5]# **Watcher-Report -e**
WatcherV1 1.5 - Watcher-Report3 on comserve-it-services.de

===== Connection attempts of DROPEd bandits =====

Time stamp : 2025-12-13 11:03:14

Since : 2025-12-12 09:42:55

Watcher uptime: 1 d, 01:20:19

IPset comment	Packets	Bytes
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» filter/INPUT (~ OSI level: 5)

Untreated,WBanalyse,404	296	17720
WatchLG-DB,Login,FAKEHOST	239	14055
WatchLG-DB,Login,KICKOFF	384	21624
WatchLG-DB,Login,NXDOMAIN	864	51644
WatchMX-DB,Mail,FAKEHOST	147	8756
WatchMX-DB,Mail,NXDOMAIN	3807	172284
WatchMX-DB,Mail,TRUEHOST	383	22530
WatchWB-DB,WEB,Bot	1822	102133
WatchWB-DB,WEB,Destroyer	36	1751
WatchWB-DB,WEB,Forbidden	144	8640
WatchWB-DB,WEB,Illegal-Wordpress	1	40
WatchWB-DB,WEB,Illegal-joomla	207	12420
WatchWB-DB,WEB,Trialbaloons	143	8172
custody-[inject],Login,FAKEHOST	668	41848
custody-[inject],Login,NXDOMAIN	582	36568
custody-[inject],Login,TRUEHOST	2350	143588
custody-[kickoff],Login,FAKEHOST	252	15120
custody-[kickoff],Login,NXDOMAIN	1882	115160
custody-[kickoff],Mail,NXDOMAIN	1144	73040
custody-[kickoff],Mail,TRUEHOST	55	2966
custody-[kickoff],WEB	4932	348051
tarpit,WEB,5	69	28530

» raw/PREROUTING (~ OSI level: 3)

GeoTrack-DB,GeoTrack,CN	1	40
blacklisted	677	74757
custody-low,GeoTrack,IN	133	7928
custody-low,GeoTrack,PK	16	1096
custody-low,GeoTrack,RU	217	12727
geo-ae	105	5692
geo-ar	119	6672
geo-br	13824	834528
geo-by	1	52
geo-cn	5327	941533
geo-eg	58	2984
geo-et	12	640
geo-id	627	33915
geo-in	1547	70753
geo-ir	143	7984
geo-pk	61	3344
geo-ru	2497	146028

geo-sa	8	400
geo-ve	31	1616
geo-vn	288	16212
geo-za	50	2800
spamhaus,drop	10333	476985

Total DROPEd connections:	56482	3895326
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***** Summary *****

Total DROPEd connections:	56482
Total passed connections:	3737
Total passthru connections:	13521
Total records in firewall:	53481

----- Efficiency -----

Current:	93.70%
... min:	93.10%
... max:	94.60%

..... Legend

passthru - Count of 'white bots'
 TD/TP ~ Total dropped/passed
 Efficiency = TD / (TD+TP)

[report_efficiency] took 3129 ms

Unusually high packet rates now get you a clue whether berserks are messing with access to your NIC (unmanaged ports, flood-pings with ICMP protocol ...)

The usual efficiency is at about 86%. A value tremendously above this (far beyond 90%) indicate, that your NIC is attacked by berserks with (D)DOS attacks through flood-ping, port scanners and such.

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