

Zerobs – DDOS Attacker-Capabilities-Scoring





	DRS 1	DRS 2	DRS 3	DRS 4	DRS 5	DRS 6	DRS 7
Name (*)	Poking	ScriptKiddie	Basic Level	Sophisticated	Advanced	Extreme State	Sponsored
Persistance	minutes	hours	hours	days	weeks	weeks	weeks
OSINT + Recon, Snipering					Basic	Full	Full
Can follow DNS/ IP-Changes					у	у	у
Can find and record the origin					у	у	у
Attacks with least necessary ammount / Deep understanding on protection-solutions					у	у	у
Monitors and reacts on mitigations					у	у	у
Ability to test for whitelists/blacklist (GeoIP)					у	у	у



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Ability to limit attacks from geo-Ranges						у	у
Ressources/ week if to be rented	1\$	10\$	50 \$	500 \$	10000\$	No limits	No limits
Smokescreening						у	у
Multi Vol +L7				У	у	у	у
CarpetBombing UDP/TCP					у	у	у
Unusual Vectors *)					у	у	у
Attack blends into usual traffic (L7)					у	у	у
Botnet for rent/buy				У	у	у	у
Operates own botnet					у	у	у
Botnet-Size (AVG, but YMMV)	1	50	5.000	10.000	50.000	500.000	unlimited
Full Browser/Clientcapa- bilities					у	у	у





Explanation

Capabilities for all Levels have been observed in the wild by zerobs [1] or by third.party [2]

Level 7 // GodMode

» State Sponsored [r.2/r.3]

Level 6 // Extreme

- » highly sophisticated individuals for rent that can leverage month-long campaigns with precision and playing with opsteam [r.1]
- » teams that hit-and-run, but show no ransom, maybe just to burn a weapon for all like memcached – case
- » dorian gray network (100k ddos-network that sits still since years)

Level 5 // Advanced

- » ddos-extortion-gangs with the capability to hit [r.2] Lazarus Bear, Armada Collective
- » DDoS-gangs for rent with good track-record (the better ones)

Level 4 // Sophisticated

- » That Guy in the Basement with knowledge [1]
- » DDoS-Gangs for Rent, the cheaper ones [1]
- » minimum-Level for basically all ECommerce-Applications

Level 3 // Basic

- » Booter-Networks
- » Wordpress-Botnets

Level 2 // Skiddo

» that guy that can download a script from github

Level 1 // Poking

» basically F5 F5 F5



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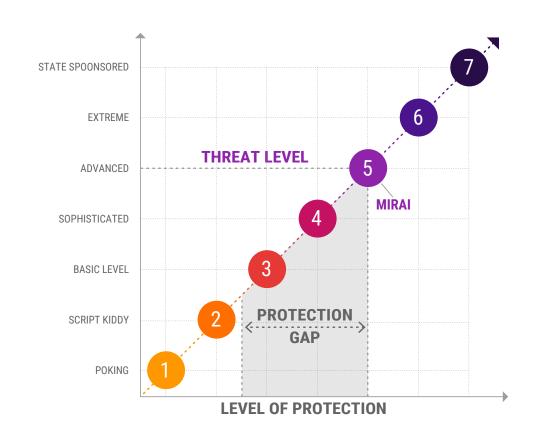




How measuring a possible protection gap works

Use an DDoS-expert for the following

- » measure your threatlevel, either by industry, recent ddoscampaigns or blackmail-threat
 - > banks are usually 5-6
 - > ecommerce 4-5
 - > smaller ISP 5-6
 - if there is an actual campaign going on against your industry, usually 5
- » measure your protection level by stresstest/assessments (preferred) or by paperwork
- » if you protectionlevel doesnt meet your threatlevel, you have a protectiongap that should be adresses
- » you now are able to number the costs to close the gap (good for C-level) and to calculate, if this is money spent well or not







References

- r.1 https://zero.bs/ddos-incident-response-ein-bericht-von-der-front.html
- r.2 https://www.netscout.com/blog/asert/lazarus-bear-armada-lba-ddos-extortion-attack-campaign-october
- r.3 https://cloud.google.com/blog/products/identity-security/identifying-and-protecting-against-the-largest-ddos-attacks