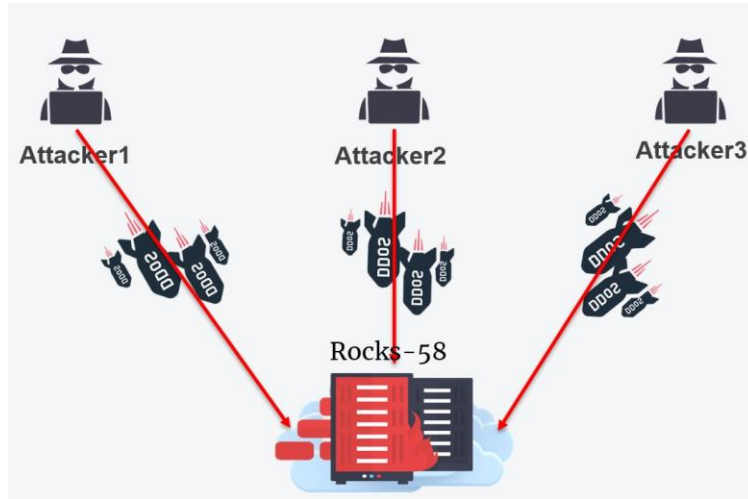


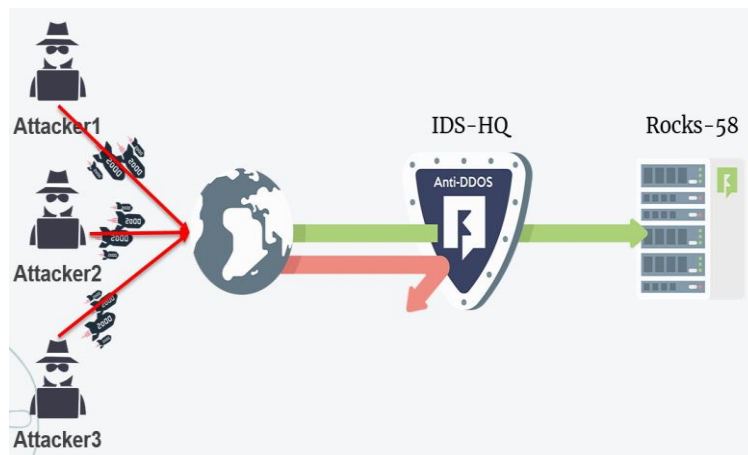
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# Security Test of Indonesian E-Health Community Cloud Model Test Bed on PRAGMA Cloud

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Scenario 1 DDoS Attack



Scenario 2 DDoS Attack

Problem ?!

- How the topology works ?
- How Snort & netfilter  
 IPtables do they works ?
- How the Results ?

```
SalviaHexia — arie@IDS-HQ: ~ — ssh root@103.56.189.253 — 136x24
arie@IDS-HQ: ~ — ssh root@103...  arie@rocks-59: ~/slowloris.pl-ma...  arie@sd-rocks01: ~/slowloris.pl...  arie@rocks-59: ~/slowloris.pl-ma...  +
12/18-21:32:29.602677  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60302 -> 192.168.101.3:80
12/18-21:32:29.604743  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60302 -> 192.168.101.3:80
12/18-21:32:29.604764  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60342 -> 192.168.101.3:80
12/18-21:32:29.606787  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60304 -> 192.168.101.3:80
12/18-21:32:29.606800  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60304 -> 192.168.101.3:80
12/18-21:32:29.608827  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60344 -> 192.168.101.3:80
12/18-21:32:29.619158  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60346 -> 192.168.101.3:80
12/18-21:32:29.621191  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60306 -> 192.168.101.3:80
12/18-21:32:29.621215  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:35214 -> 192.168.101.3:80
12/18-21:32:29.621225  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:35214 -> 192.168.101.3:80
12/18-21:32:29.621240  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:35254 -> 192.168.101.3:80
12/18-21:32:29.627814  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60308 -> 192.168.101.3:80
12/18-21:32:29.629865  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60308 -> 192.168.101.3:80
12/18-21:32:29.629885  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60348 -> 192.168.101.3:80
12/18-21:32:29.635643  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 163.221.11.97:60310 -> 192.168.101.3:80
```

**Snort is very  
 crucial for the  
 cloud server**

```
SalviaHexia — arie@IDS-HQ: ~ — ssh root@103.56.189.253 — 136x24
arie@IDS-HQ: ~ — ssh root@103...  arie@rocks-59: ~/slowloris.pl-ma...  arie@sd-rocks01: ~/slowloris.pl...  arie@rocks-59: ~/slowloris.pl-ma...  +
12/18-21:38:36.973405  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:36894 -> 192.168.101.3:80
12/18-21:38:36.973410  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:36894 -> 192.168.101.3:80
12/18-21:38:36.973416  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:36934 -> 192.168.101.3:80
12/18-21:38:36.973422  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:37014 -> 192.168.101.3:80
12/18-21:38:36.973428  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:37014 -> 192.168.101.3:80
12/18-21:38:36.973434  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:37054 -> 192.168.101.3:80
12/18-21:38:36.973439  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:37054 -> 192.168.101.3:80
12/18-21:38:36.973445  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:37174 -> 192.168.101.3:80
12/18-21:38:36.973451  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:37214 -> 192.168.101.3:80
12/18-21:38:36.973457  [**] [1:10000002:0] access port 80 from internet [**] [Priority: 0] {TCP} 198.202.88.59:37254 -> 192.168.101.3:80
```