

LAMPIRAN

LAMPIRAN DATASET DDOS SERANGAN SYN

Berikut adalah sampel *dataset* serangan DDoS pada serangan SYN sebanyak 31 record dan atribut/parameter sebanyak 88.

Flow ID	Source IP	Source Port	Destination IP	Destination Port	Protocol	Timestamp	Flow Duration	Total Fwd Packets	Total Backward Packets
000001	172.16.0.5	192.168.50.1	18765	6	2018-12-01 13:32:53	333650	51	2	0
000002	172.16.0.5	192.168.50.1	34062	6	2018-12-01 13:32:53	333807	1	2	0
000003	172.16.0.5	192.168.50.1	50377	6	2018-12-01 13:32:53	333407	0	2	0
000004	172.16.0.5	192.168.50.1	13134	6	2018-12-01 13:32:53	333552	1	2	0
000005	172.16.0.5	192.168.50.1	25673	6	2018-12-01 13:32:53	333620	0	2	0
000006	172.16.0.5	192.168.50.1	9111	6	2018-12-01 13:32:53	333998	1	2	0
000007	172.16.0.5	192.168.50.1	61178	6	2018-12-01 13:32:53	335140	48	2	0
000008	172.16.0.5	192.168.50.1	37101	6	2018-12-01 13:32:53	335189	54248517	10	2
000009	172.16.0.5	192.168.50.1	43030	6	2018-12-01 13:32:53	335250	1	2	0
000010	172.16.0.5	192.168.50.1	39414	6	2018-12-01 13:32:53	335252	1	2	0
000011	172.16.0.5	192.168.50.1	45497	6	2018-12-01 13:32:53	335302	1	2	0
000012	172.16.0.5	192.168.50.1	3380	6	2018-12-01 13:32:53	335400	1	2	0
000013	172.16.0.5	192.168.50.1	44428	6	2018-12-01 13:32:53	335410	9939	12	0
000014	172.16.0.5	192.168.50.1	10508	6	2018-12-01 13:32:53	335588	1	2	0
000015	172.16.0.5	192.168.50.1	3627	6	2018-12-01 13:32:53	335590	1	2	0
000016	172.16.0.5	192.168.50.1	7759	6	2018-12-01 13:32:53	335689	1	2	0
000017	172.16.0.5	192.168.50.1	42973	6	2018-12-01 13:32:53	335979	1	2	0
000018	172.16.0.5	192.168.50.1	4516	6	2018-12-01 13:32:53	336045	0	2	0
000019	172.16.0.5	192.168.50.1	37796	6	2018-12-01 13:32:53	336090	61	2	2
000020	172.16.0.5	192.168.50.1	37796	6	2018-12-01 13:32:53	336155	0	2	0
000021	172.16.0.5	192.168.50.1	10424	6	2018-12-01 13:32:53	336158	0	2	0
000022	172.16.0.5	192.168.50.1	58621	6	2018-12-01 13:32:53	336336	50	2	2
000023	172.16.0.5	192.168.50.1	37200	6	2018-12-01 13:32:53	336442	1	2	0
000024	172.16.0.5	192.168.50.1	28072	6	2018-12-01 13:32:53	337077	1	2	0
000025	172.16.0.5	192.168.50.1	35632	6	2018-12-01 13:32:53	337106	0	2	0
000026	172.16.0.5	192.168.50.1	6059	6	2018-12-01 13:32:53	337187	50	2	0
000027	172.16.0.5	192.168.50.1	29215	6	2018-12-01 13:32:53	337321	118	2	0
000028	172.16.0.5	192.168.50.1	15449	6	2018-12-01 13:32:53	337322	1	2	0
000029	172.16.0.5	192.168.50.1	22437	6	2018-12-01 13:32:53	337439	1	2	0
000030	172.16.0.5	192.168.50.1	20271	6	2018-12-01 13:32:53	337945	1	2	0
000031	172.16.0.5	192.168.50.1	29653	6	2018-12-01 13:32:53	337946	1	2	0

Flow ID	Total Backward Packets	Total Length of Fwd Packets	Total Length of Bwd Packets	Fwd Packet Length Max	Fwd Packet Length Min	Fwd Packet Length Mean	Fwd Packet Length Std	Bwd Packet Length
000001	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000002	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000003	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000004	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000005	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000006	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000007	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000008	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000009	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000010	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000011	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000012	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000013	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000014	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000015	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000016	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000017	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000018	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000019	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000020	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000021	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000022	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000023	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000024	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000025	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000026	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000027	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000028	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000029	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000030	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000031	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Bwd Packet	Length Max	Bwd Packet	Length Min	Bwd Packet	Length Mean	Bwd Packet	Length Std	Flow Bytes/s	Flow Packets/s	Flow IAT Mean	Flow IAT Std	Flow IAT Max	Flow IAT Min
000001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39215.686274509804	51.0	0.0	0.0	51.0	51.0
000002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Infinity	0.0	0.0	0.0	0.0	0.0
000004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	0.0	0.0
000006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41666.666666666664	48.0	0.0	0.0	48.0	48.0
000008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1867747390963125	5840774.2727272725	8157561.7756892	18849610.0	0.0	0.0
000009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15186213540258314	7183549.0	8572336.096991425	21418627.0	1.0	1.0
000014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Infinity	0.0	0.0	0.0	0.0	0.0
000019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65573.77049180328	20.333333333333336	33.4863156129829	59.0	1.0	1.0
000020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Infinity	0.0	0.0	0.0	0.0	0.0
000021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Infinity	0.0	0.0	0.0	0.0	0.0
000022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80000.0	16.666666666666668	27.13546265191241	48.0	1.0	1.0
000023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Infinity	0.0	0.0	0.0	0.0	0.0
000026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40000.0	50.0	0.0	0.0	50.0	50.0
000027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33898.30508474576	39.33333333333333	67.26316475853135	117.0	0.0	0.0
000028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0
000031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000000.0	1.0	0.0	0.0	1.0	1.0

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Flow IAT Min	Fwd IAT	Total Fwd IAT	Mean	Std	Fwd IAT Max	Fwd IAT Min	Fwd IAT Total	Bwd IAT Mean	Bwd IAT Std	Bwd IAT Max	Bwd IAT Min	Fwd PSH	Flags	Bwd PSH	Flags	Fwd
000001	51.0	51.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000002	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000004	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000006	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000007	48.0	48.0	48.0	0.0	48.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000008	0.0	64248517.0	7138724.111111111	8551627.848706703	18849610.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
000009	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000010	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000011	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000012	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000013	1.0	79019039.0	7183549.0	8572336.096991425	21418627.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000014	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000015	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000016	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000017	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000019	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
000020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000022	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000023	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000024	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000026	50.0	50.0	50.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000027	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
000028	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000029	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000030	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000031	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Fwd PSH	Flags	Bwd PSH	Flags	Fwd URG	Flags	Bwd URG	Flags	Fwd Header	Length	Bwd Header	Length	Fwd Packets/s	Min Packet	Length	Max Packet	Length	Packet Length
000001	0	0	0	0	0	0	0	40	0	0	0	39215.68627450981	0.0	0.0	0.0	0.0	0.0
000002	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000003	0	0	0	0	0	0	0	40	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
000004	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000005	0	0	0	0	0	0	0	40	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
000006	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000007	0	0	0	0	0	0	0	40	0	0	0	41666.66666666666	0.0	0.0	0.0	0.0	0.0
000008	0	0	0	0	0	0	0	2000	40	0	0	0.15564561591359374	0.0	0.0	0.0	0.0	0.0
000009	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000010	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000011	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000012	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000013	0	0	0	0	0	0	0	240	0	0	0	0.15186213540258314	0.0	0.0	0.0	0.0	0.0
000014	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000015	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000016	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000017	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000018	0	0	0	0	0	0	0	40	0	0	0	2000000.0	0.0	0.0	0.0	0.0	0.0
000019	0	0	0	0	0	0	0	40	40	0	0	8786.885245901634	0.0	0.0	0.0	0.0	0.0
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	Bwd Avg	Bytes/Bulk	Bwd Avg	Packets/Bulk	Bwd Avg	Bulk Rate	Subflow	Fwd	Packets	Subflow	Fwd	Bytes	Subflow	Bwd	Packets	Subflow	Bwd	Bytes	Init_Min_bytes_forward	Init_Min_bytes_backward
000001	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000002	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000003	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000004	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000005	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000006	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000007	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000008	0	0	0	0	10	0	0	2	0	0	0	0	0	0	0	0	0	5840	0	
000009	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000010	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000011	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000012	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000013	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000014	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000015	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000016	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000017	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000018	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000019	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	5840	0	
000020	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000021	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000022	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	5840	0	
000023	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000024	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000025	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000026	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000027	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	5840	0	
000028	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000029	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000030	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	
000031	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5840	-1	

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Column Count: 88 Row Count: 158270 Status Source: Syn 10%.csv Column: 67 Row: 1 Selected Cells: 1 Text Length: 1

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Default csv - Syn 10%.csv

	ytes_backward	act_data_pkt_fwd	min_seg_size_forward	Active	Mean	Active	Std	Active	Max	Active	Min	Idle	Mean	Idle	Std	Idle	Max	Idle	Min	SimilarHTTP	Inbound	Label
000001	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000002	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000003	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000004	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000005	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000006	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000007	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000008	0	0	20	38.0	64.08587988004847	112.0	1.0	16062100.5	1977169.8107969887	18849610.0	14178241.0	0	0	0	0	0	0	0	0	0	1	Syn
000009	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000010	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000011	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000012	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000013	0	0	20	1.0	0.0	1.0	1.0	15003006.6	3663505.3205983356	21418627.0	11327019.0	0	0	0	0	0	0	0	0	0	1	Syn
000014	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000015	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000016	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000017	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000018	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000019	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000020	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000021	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000022	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000023	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000024	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000025	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000026	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000027	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000028	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000029	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000030	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn
000031	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	Syn

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Column Count: 88 Row Count: 158270 Status Source: Syn 10%.csv Column: 75 Row: 1 Selected Cells: 1 Text Length: 2

LAMPIRAN DATASET DDOS SERANGAN NTP

Berikut adalah sampel *dataset* serangan DDoS pada serangan NTP sebanyak 31 record dan atribut/parameter sebanyak 88.

Unnamed	Flow ID	Source IP	Source Port	Destination IP	Destination Port	Protocol	Timestamp	Flow Duration	Total Fwd Packets	Total
000001	0	172.16.0.5-192.168.50.1-60675-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:11.183810	5220876	12	9
000002	7	172.16.0.5-192.168.50.1-60676-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:11.205636	12644252	5	2
000003	12858	192.168.50.7-65.55.163.78-50458-443-6	65.55.163.78	192.168.50.7	50458	6	2018-12-01 09:17:10.634569	3	2	0
000004	18191	192.168.50.7-65.55.163.78-50465-443-6	65.55.163.78	192.168.50.7	50465	6	2018-12-01 09:17:13.458370	3	2	0
000005	239	192.168.50.253-224.0.0.5-0-0-0	192.168.50.253	0	0	0	2018-12-01 09:17:13.478913	114329232	52	0
000006	64	172.217.3.110-192.168.50.6-80-50805-6	192.168.50.6	192.168.50.6	80	6	2018-12-01 09:17:13.931404	34647273	9	0
000007	255	192.168.50.6-72.194.142.213-56131-443-6	192.168.50.6	192.168.50.6	56131	6	2018-12-01 09:17:14.072090	119842965	29	30
000008	69	192.168.50.6-72.21.91.29-56123-80-6	192.168.50.6	192.168.50.6	56123	6	2018-12-01 09:17:14.181504	35613140	9	8
000009	68	192.168.50.6-8.43.72.98-56133-443-6	192.168.50.6	192.168.50.6	56133	6	2018-12-01 09:17:14.244036	35550443	11	0
000010	5	172.16.0.5-192.168.50.1-53948-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:16.230610	5080872	0	7
000011	1	172.16.0.5-192.168.50.1-60675-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:16.404689	176	1	1
000012	14296	172.16.0.5-192.168.50.1-60675-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:16.404689	95	1	2
000013	242	192.168.50.254-224.0.0.5-0-0-0	192.168.50.254	0	0	0	2018-12-01 09:17:16.620901	111647435	39	0
000014	13987	192.168.50.7-65.55.163.78-50466-443-6	65.55.163.78	192.168.50.7	50466	6	2018-12-01 09:17:17.363505	2	0	0
000015	11217	192.168.50.7-65.55.163.78-50457-443-6	65.55.163.78	192.168.50.7	50457	6	2018-12-01 09:17:18.005435	2	0	0
000016	2	192.168.50.8-23.194.142.15-58323-443-6	192.168.50.8	192.168.50.8	58323	6	2018-12-01 09:17:20.179533	233	4	0
000017	3	192.168.50.8-23.194.142.15-58323-443-6	192.168.50.8	192.168.50.8	58323	6	2018-12-01 09:17:20.179767	1	2	0
000018	4	192.168.50.8-23.194.142.15-58323-443-6	192.168.50.8	192.168.50.8	58323	6	2018-12-01 09:17:20.200721	221	5	0
000019	15248	192.168.50.8-23.194.142.15-58323-443-6	192.168.50.8	192.168.50.8	58323	6	2018-12-01 09:17:20.200943	200	1	2
000020	6	172.16.0.5-192.168.50.1-53948-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:21.239405	233	1	1
000021	11570	172.16.0.5-192.168.50.1-53948-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:21.239721	96	1	1
000022	8	172.16.0.5-192.168.50.1-60676-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:23.849891	184	1	1
000023	11996	172.16.0.5-192.168.50.1-60676-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:23.850077	112	1	2
000024	9	172.16.0.5-192.168.50.1-62478-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:25.430376	5446804	12	0
000025	11	172.16.0.5-192.168.50.1-25927-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:25.798205	5909903	12	0
000026	55	172.16.0.5-192.168.50.1-25926-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:25.898451	16249979	5	2
000027	12364	192.168.50.7-4.2.2.4-55491-53-17	192.168.50.7	55491	53	17	2018-12-01 09:17:26.528896	20720	2	2
000028	230	192.168.50.7-40.76.207.200-50474-443-6	192.168.50.7	50474	443	6	2018-12-01 09:17:26.550449	103119730	75	96
000029	18173	192.168.10.50-192.168.50.7-21-50475-6	192.168.50.7	50475	6	6	2018-12-01 09:17:26.805173	9015577	12	0
000030	38	172.16.0.5-192.168.50.1-49691-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:29.195244	5677768	6	0
000031	542	192.168.50.7-4.2.2.4-54594-53-17	192.168.50.7	54594	53	17	2018-12-01 09:17:30.229602	65800	2	2

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Column Count: 88 Row Count: 121701 Status: Source: DrDoS_NTP 10%.csv Column: 11 Row: All Selected Cells: 121701 Text Length: -

Unnamed	Total Backward Packets	Total Length of Fwd Packets	Total Length of Bud Packets	Fwd Packet Length Max	Fwd Packet Length Min	Fwd Packet Length Mean	Fwd Packet Length Std	Bud Packet Length
000001	9	1928.0	4290.0	509.0	0.0	160.66666666666667	237.8782474419648	1073.0
000002	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000003	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000004	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000005	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000006	8	8.0	0.0	1.0	0.0	0.8888888888888888	0.3333333333333333	0.0
000007	30	5844.0	876.0	2910.0	0.0	201.517241793103	641.5538403355256	438.0
000008	8	8.0	0.0	1.0	0.0	0.8888888888888888	0.3333333333333333	0.0
000009	8	114.0	0.0	53.0	0.0	10.363636363636363	21.082090632917442	0.0
000010	7	754.0	2146.0	377.0	0.0	94.25	174.51708880712596	1073.0
000011	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000012	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000013	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000014	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000015	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000016	0	123.0	0.0	46.0	0.0	30.75	21.68524844220144	0.0
000017	0	31.0	0.0	31.0	0.0	15.5	21.92031021678297	0.0
000018	0	62.0	0.0	31.0	0.0	12.4	16.97939928266015	0.0
000019	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000020	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000021	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000022	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000023	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000024	9	1796.0	4290.0	489.0	0.0	149.66666666666667	222.38432471464318	1073.0
000025	9	1650.0	4290.0	442.0	0.0	131.66666666666667	204.7583202142704	1073.0
000026	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000027	2	72.0	310.0	36.0	36.0	36.0	0.0	155.0
000028	96	80828.0	13010.0	3564.0	0.0	1077.7066666666667	1248.19858085858085	2920.0
000029	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000030	9	1742.0	4290.0	463.0	0.0	145.16666666666667	215.065670027186	1073.0
000031	2	54.0	86.0	27.0	27.0	27.0	0.0	43.0

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Column Count: 88 Row Count: 121701 Status: Source: DrDoS_NTP 10%.csv Column: 18 Row: 1 Selected Cells: 1 Text Length: 6

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DrDoS_NTP_10%.csv

Bwd Packet	Length	Max Bwd Packet	Length Min	Bwd Packet	Length Min	Bwd Packet	Length Min	Bwd Packet	Length Min	Std	Flow Bytes/s	Flow Packets/s	Flow IAT Mean	Flow IAT Std	Flow IAT Max F
000001	1073.0	0.0	476.666666666667	565.2572423242358	1190.9878725332685	4.022313496815477	261043.8	1117421.478042834	5004919.0	2					
000002	0.0	0.0	0.0	0.0	0.0	0.553611237738674	2107375.333333333	5161910.000929247	12644080.0	1					
000003	0.0	0.0	0.0	0.0	0.0	666666.666666666	3.0	0.0	3.0	3					
000004	0.0	0.0	0.0	0.0	0.0	666666.666666666	3.0	0.0	3.0	3					
000005	0.0	0.0	0.0	0.0	0.0	0.45482681104688955	2241749.6470588245	4083247.485040777	9550741.0	1					
000006	0.0	0.0	0.0	0.0	0.0	0.22957320074045317	0.487843051592588	2177954.5625	4053043.3624163987	10014717.0	2				
000007	438.0	0.0	29.2	1111.12416168567856	56.07337902562741	0.450231091704047875	2066258.0172413788	4067628.669798183	10011531.0	1					
000008	0.0	0.0	0.0	0.0	0.0	0.22463618765433208	0.47735189876545564	2225821.25	4091558.704552183	10004237.0	2				
000009	0.0	0.0	0.0	0.0	0.0	3.2067110949925435	0.5344518491654239	1979504.611111111	3906306.934995337	10014706.0	1				
000010	1073.0	0.0	306.57142857142856	523.570389136888	578.9726708927678	2.994680228755096	357776.5714285714	1337535.1018772088	5004906.0	2					
000011	0.0	0.0	0.0	0.0	0.0	11363.636363636364	176.0	0.0	176.0	1					
000012	0.0	0.0	0.0	0.0	0.0	31578.94736842105	47.5	0.0	62.923052560272	92.0	3				
000013	0.0	0.0	0.0	0.0	0.0	0.3493138915372306	2938090.3947368427	4365983.885874107	9901133.0	0					
000014	0.0	0.0	0.0	0.0	0.0	1000000.0	2.0	0.0	2.0	2					
000015	0.0	0.0	0.0	0.0	0.0	1000000.0	2.0	0.0	2.0	2					
000016	0.0	0.0	0.0	0.0	0.0	527896.9957081545	17167.38197424893	77.66666666666666	129.32646029847618	227.0	3				
000017	0.0	0.0	0.0	0.0	0.0	3.167	2000000.0	1.0	0.0	1.0	1				
000018	0.0	0.0	0.0	0.0	0.0	200442.98642533936	22624.43438914027	55.250000000000001	106.50312984446356	215.0	3				
000019	0.0	0.0	0.0	0.0	0.0	15000.0	100.0	0.0	137.1787155019022	197.0	3				
000020	0.0	0.0	0.0	0.0	0.0	0.0	8581.69098712464	233.0	0.0	233.0	2				
000021	0.0	0.0	0.0	0.0	0.0	31250.0	48.0	0.0	65.05302386916237	94.0	2				
000022	0.0	0.0	0.0	0.0	0.0	10809.565217391304	184.0	0.0	0.0	184.0	1				
000023	0.0	0.0	0.0	0.0	0.0	26785.714285714286	56.0	0.0	76.3675326814714	110.0	2				
000024	1073.0	0.0	476.6666666666674	565.2572423242358	1117.5002074885367	3.855981655809936	272304.2	1112425.0234577204	5004890.0	2					
000025	1073.0	0.0	476.6666666666674	565.2572423242358	1007.9013200249653	3.55377360007443	295045.15	1125769.215304215	5002987.0	1					
000026	0.0	0.0	0.0	0.0	0.0	0.4307697874563407	2708329.833333333	6633918.369540536	16249759.0	0					
000027	155.0	155.0	155.0	0.0	18436.29343629344	193.05019305019303	6906.666666666666	11958.367461043057	20715.0	2					
000028	2920.0	0.0	135.5208333333334	413.3512328113546	909.9907457080958	1.652605606201164	606506.6470588237	5644044.901291839	66416970.0	0					
000029	0.0	0.0	0.0	0.0	0.0	0.6655140804354618	1003115.4	0.0	2649470.0	2					
000030	1073.0	0.0	476.6666666666674	565.2572423242358	1062.309305093128	3.6986365064581714	283888.4	1124983.7589852451	5004876.0	2					
000031	43.0	43.0	43.0	0.0	2125.0758955676993	60.71645415907712	21960.0	38036.63958178904	65874.0	3					

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Main Document

DrDoS_NTP_10%.csv

x	Flow IAT	Min	Fwd IAT	Total	Fwd IAT	Mean	Fwd IAT	Std	Fwd IAT	Min	Bwd IAT	Total	Bwd IAT	Mean	Bwd IAT	Std	Bwd IAT	Min	Fwd PSH	Flags	B	
000001	2.0	219597.0	19632.454545454544	57799.7969033865	192825.0	2.0	5220754.0	652594.25	1759944.2800113118	5000909.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000002	1.0	12644252.0	3161063.0	6322011.3338176925	12644080.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
000003	3.0	3.0	3.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000004	3.0	3.0	3.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000005	1.0	114329232.0	2241749.6470588245	4083247.485040777	9550741.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000006	2.0	34847273.0	4355909.125	4969564.113724791	10047743.0	2.0	30112039.0	4301719.857142856	5365186.35412416	10047601.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000007	1.0	119022230.0	4279365.357142857	5027727.725060833	10032112.0	2.0	11002203.0	4131000.103440277	5005409.231834212	10032273.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000008	2.0	35613140.0	4451642.5	4983238.299918495	10032178.0	2.0	30096571.0	4299510.142857143	5362428.177394344	10032289.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000009	1.0	35550443.0	3555044.3	4779373.288130523	10047799.0	1.0	30127571.0	4303938.714285715	5367954.092081815	10047756.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000010	2.0	3966.0	566.5714285714286	1130.9332218928544	3079.0	2.0	5008774.0	834795.6666666667	2042987.2161089669	5005025.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000011	176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000012	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000013	0.0	111647435.0	2938090.3947368427	4385983.885874107	9981133.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000014	2.0	2.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000015	2.0	2.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000016	3.0	233.0	77.66666666666666	129.32646029847618	227.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000017	1.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000018	1.0	221.0	55.250000000000001	106.50312984446356	215.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000019	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000020	233.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000021	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000022	184.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000023	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000024	2.0	441194.0	40108.545454545456	132415.64871522068	439356.0	2.0	5445972.0	680746.5	1754044.1636213157	5005034.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000025	1.0	897915.0	81628.72727272726	267885.920331005	809310.0	1.0	5900713.0	737589.125	1751356.5875738757	5003097.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000026	2.0	1624979.0	4062404.75	8124642.83390876	1624979.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000027	2.0	3.0	3.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000028	0.0	103119730.0	1393599.064646464	8522683.870312197	66416970.0	1.0	36651778.0	385808.18947368406	3306317.0973247024	32115508.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000029	2.0	901577.0	1003115.4	2684397.65094044	5999070.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000030	2.0	672892.0	61172.000000000001	199368.82252348284	662237.0	2.0	5675770.0	709696.25	1750925.9277104745	5005005.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000031	3.0	3.0	3.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Default csv - DrDoS_NTP 10%.csv

	d	Init_Min_bytes_backward	act_data_pkt_fwd	min_seg_size_forward	Active Mean	Active Std	Active Max	Active Min	Idle Mean	Idle Std	Idle Max	Idle Min
000001	253	4	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000002	28968	0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000003	-1	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000004	-1	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000005	-1	0	0	7.416666666666668	2.4664414311581235	15.0	6.0	9527428.0	248706.681286136	9950741.0	9092248.0	0.0
000006	254	7	20	33004.0	32.90896534380867	33030.0	32967.0	10004347.0	8980.692846323162	10014717.0	9999149.0	0.0
000007	579	26	20	25069.833333333336	14949.53578103016	72593.0	20578.0	9960124.833333332	155305.40472760776	10011533.0	9460830.0	0.0
000008	290	7	20	27931.0	13.527749258468685	27944.0	27917.0	10004212.666666666	38.7341365378568	10004237.0	10004168.0	0.0
000009	17358	9	20	33102.0	37.21110945224001	33135.0	33052.0	8854508.0	2309859.0375153483	10014706.0	5389737.0	0.0
000010	235	2	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000011	64	0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000012	243	0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000013	-1	0	0	4.916666666666667	0.9003366373785201	6.0	3.0	9303947.5	306387.94802801585	9981133.0	9006678.0	0.0
000014	-1	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000015	-1	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000016	-1	2	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000017	-1	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000018	-1	2	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000019	0	0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000020	64	0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000021	235	0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000022	227	0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000023	64	0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000024	243	4	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000025	243	4	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000026	28968	0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000027	-1	1	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000028	1026	50	20	3598732.0	0.0	3598732.0	3598732.0	32019597.0	0.0	32019597.0	32019597.0	0.0
000029	-1	0	32	3015904.0	0.0	3015904.0	3015904.0	5999670.0	0.0	5999670.0	5999670.0	0.0
000030	243	4	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
000031	-1	1	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Main Document

Default csv - DrDoS_NTP 10%.csv

	min_seg_size_forward	Active Mean	Active Std	Active Max	Active Min	Idle Mean	Idle Std	Idle Max	Idle Min	SimilarHTTP	Inbound Label
000001	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000002	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000003	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 BENIGN
000004	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 BENIGN
000005	0	7.416666666666668	2.4664414311581235	15.0	6.0	9527428.0	248706.681286136	9950741.0	9092248.0	0.0	0 BENIGN
000006	20	33004.0	32.90896534380867	33030.0	32967.0	10004347.0	8980.692846323162	10014717.0	9999149.0	0.0	0 BENIGN
000007	20	25069.833333333336	14949.53578103016	72593.0	20578.0	9960124.833333332	155305.40472760776	10011533.0	9460830.0	0.0	0 BENIGN
000008	20	27931.0	13.527749258468685	27944.0	27917.0	10004212.666666666	38.7341365378568	10004237.0	10004168.0	0.0	0 BENIGN
000009	20	33102.0	37.21110945224001	33135.0	33052.0	8854508.0	2309859.0375153483	10014706.0	5389737.0	0.0	0 BENIGN
000010	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000011	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000012	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000013	0	4.916666666666667	0.9003366373785201	6.0	3.0	9303947.5	306387.94802801585	9981133.0	9006678.0	0.0	0 BENIGN
000014	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 BENIGN
000015	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 BENIGN
000016	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 BENIGN
000017	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 BENIGN
000018	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 BENIGN
000019	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 BENIGN
000020	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 DrDoS_NTP
000021	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000022	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000023	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 DrDoS_NTP
000024	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000025	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000026	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000027	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 BENIGN
000028	20	3598732.0	0.0	3598732.0	3598732.0	32019597.0	0.0	32019597.0	32019597.0	0.0	0 BENIGN
000029	32	3015904.0	0.0	3015904.0	3015904.0	5999670.0	0.0	5999670.0	5999670.0	0.0	1 BENIGN
000030	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 DrDoS_NTP
000031	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 BENIGN

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Column Count: 88 Row Count: 121701 Status Source: DrDoS_NTP 10%.csv Column: 85 Row: 1 Selected Cells: 1 Text Length: 3

LAMPIRAN PROSES KLASIFIKASI PADA *DATASET* DDOS SERANGAN SYN PADA WEKA

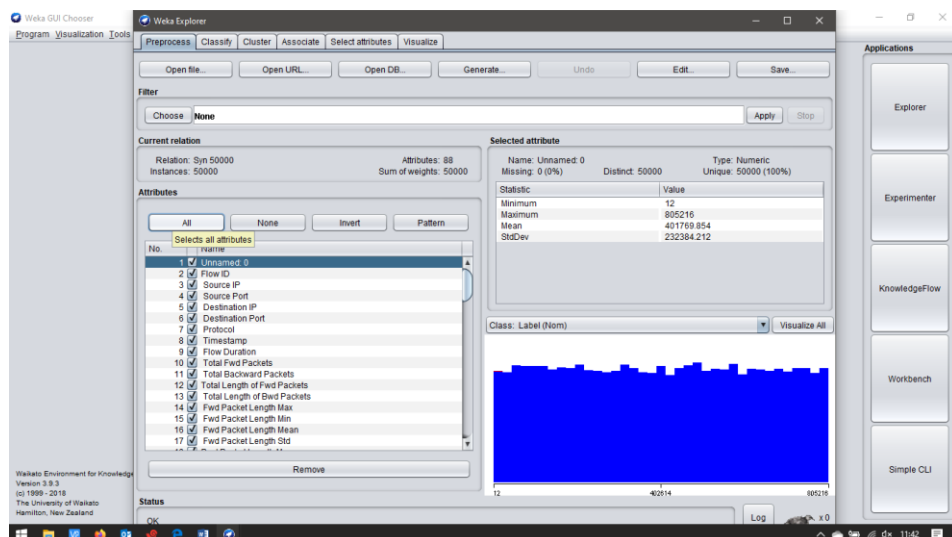
Tahapan klasifikasi *Dataset* DDoS dengan serangan SYN pada WEKA adalah sebagai berikut:

1. Pengambilan *Dataset* serangan DDoS pada serangan SYN.

Unnamed: 0 Flow ID	Source IP	Source Port	Destination IP	Destination Port	Protocol	Timestamp	Flow Duration	Total Fwd Packets	Total Back
000001 746377	172.16.0.5-192.168.50.1-34061-18765-6	172.16.0.5 34061	192.168.50.1 18765	6	2018-12-01 13:32:53.333958	51	2	0	
000002 723333	172.16.0.5-192.168.50.1-34062-58377-6	172.16.0.5 34062	192.168.50.1 58377	6	2018-12-01 13:32:53.333307	1	2	0	
000003 17321	172.16.0.5-192.168.50.1-34063-58377-6	172.16.0.5 34063	192.168.50.1 58377	6	2018-12-01 13:32:53.333407	0	2	0	
000004 513734	172.16.0.5-192.168.50.1-34064-13134-6	172.16.0.5 34064	192.168.50.1 13134	6	2018-12-01 13:32:53.333552	1	2	0	
000005 240575	172.16.0.5-192.168.50.1-34065-25673-6	172.16.0.5 34065	192.168.50.1 25673	6	2018-12-01 13:32:53.333628	0	2	0	
000006 781146	172.16.0.5-192.168.50.1-34066-9111-6	172.16.0.5 34066	192.168.50.1 9111	6	2018-12-01 13:32:53.333998	1	2	0	
000007 448559	172.16.0.5-192.168.50.1-34067-61178-6	172.16.0.5 34067	192.168.50.1 61178	6	2018-12-01 13:32:53.335148	48	2	0	
000008 761692	172.16.0.5-192.168.50.1-37181-7181-6	172.16.0.5 37181	192.168.50.1 37181	6	2018-12-01 13:32:53.335189	54248517	10	2	
000009 488072	172.16.0.5-192.168.50.1-34068-43830-6	172.16.0.5 34068	192.168.50.1 43830	6	2018-12-01 13:32:53.335250	1	2	0	
000010 542727	172.16.0.5-192.168.50.1-34069-39414-6	172.16.0.5 34069	192.168.50.1 39414	6	2018-12-01 13:32:53.335252	1	2	0	
000011 349779	172.16.0.5-192.168.50.1-34070-45497-6	172.16.0.5 34070	192.168.50.1 45497	6	2018-12-01 13:32:53.335302	1	2	0	
000012 718180	172.16.0.5-192.168.50.1-34071-3390-6	172.16.0.5 34071	192.168.50.1 3390	6	2018-12-01 13:32:53.335408	1	2	0	
000013 882598	172.16.0.5-192.168.50.1-44428-44428-6	172.16.0.5 44428	192.168.50.1 44428	6	2018-12-01 13:32:53.335410	79019039	12	0	
000014 128509	172.16.0.5-192.168.50.1-34072-18988-6	172.16.0.5 34072	192.168.50.1 18988	6	2018-12-01 13:32:53.335588	1	2	0	
000015 173955	172.16.0.5-192.168.50.1-34073-3627-6	172.16.0.5 34073	192.168.50.1 3627	6	2018-12-01 13:32:53.335598	1	2	0	
000016 263646	172.16.0.5-192.168.50.1-34074-7759-6	172.16.0.5 34074	192.168.50.1 7759	6	2018-12-01 13:32:53.335689	1	2	0	
000017 274589	172.16.0.5-192.168.50.1-34075-42973-6	172.16.0.5 34075	192.168.50.1 42973	6	2018-12-01 13:32:53.335979	1	2	0	
000018 421135	172.16.0.5-192.168.50.1-34076-4516-6	172.16.0.5 34076	192.168.50.1 4516	6	2018-12-01 13:32:53.336045	0	2	0	
000019 665812	172.16.0.5-192.168.50.1-34077-37796-6	172.16.0.5 34077	192.168.50.1 37796	6	2018-12-01 13:32:53.336096	61	2	2	
000020 764888	172.16.0.5-192.168.50.1-34078-37796-6	172.16.0.5 34078	192.168.50.1 37796	6	2018-12-01 13:32:53.336155	0	2	0	
000021 584322	172.16.0.5-192.168.50.1-34079-18424-6	172.16.0.5 34079	192.168.50.1 18424	6	2018-12-01 13:32:53.336158	0	2	0	
000022 521836	172.16.0.5-192.168.50.1-34080-58621-6	172.16.0.5 34080	192.168.50.1 58621	6	2018-12-01 13:32:53.336236	50	2	2	
000023 52995	172.16.0.5-192.168.50.1-34081-37288-6	172.16.0.5 34081	192.168.50.1 37288	6	2018-12-01 13:32:53.336442	1	2	0	
000024 604653	172.16.0.5-192.168.50.1-34082-28872-6	172.16.0.5 34082	192.168.50.1 28872	6	2018-12-01 13:32:53.337877	1	2	0	
000025 583384	172.16.0.5-192.168.50.1-34083-35632-6	172.16.0.5 34083	192.168.50.1 35632	6	2018-12-01 13:32:53.337186	0	2	0	
000026 579132	172.16.0.5-192.168.50.1-34084-6958-6	172.16.0.5 34084	192.168.50.1 6958	6	2018-12-01 13:32:53.337187	50	2	0	
000027 666517	172.16.0.5-192.168.50.1-34085-39215-6	172.16.0.5 34085	192.168.50.1 39215	6	2018-12-01 13:32:53.337321	118	2	2	
000028 786561	172.16.0.5-192.168.50.1-34086-15449-6	172.16.0.5 34086	192.168.50.1 15449	6	2018-12-01 13:32:53.337322	1	2	0	
000029 287198	172.16.0.5-192.168.50.1-34087-22437-6	172.16.0.5 34087	192.168.50.1 22437	6	2018-12-01 13:32:53.337439	1	2	0	
000030 215987	172.16.0.5-192.168.50.1-34088-28271-6	172.16.0.5 34088	192.168.50.1 28271	6	2018-12-01 13:32:53.337945	1	2	0	
000031 288322	172.16.0.5-192.168.50.1-34089-29853-6	172.16.0.5 34089	192.168.50.1 29853	6	2018-12-01 13:32:53.337946	1	2	0	

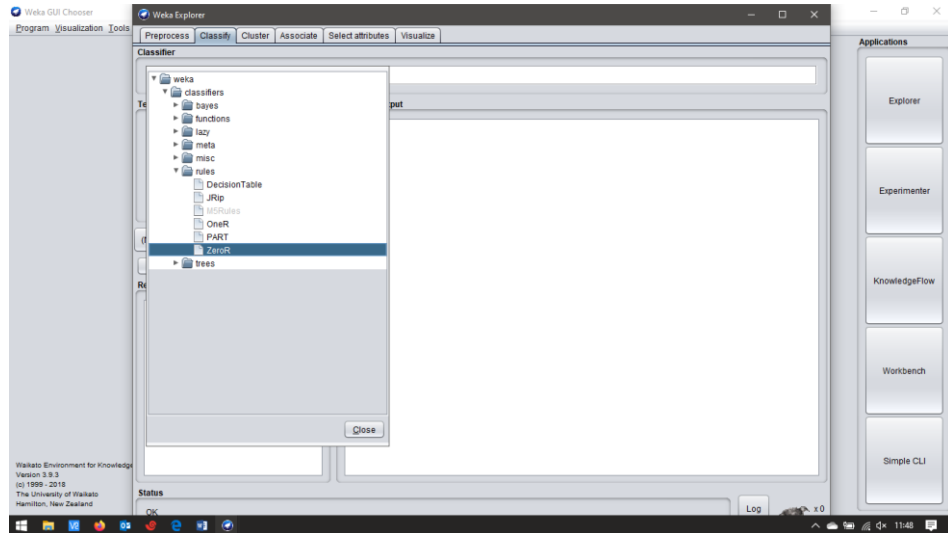
Gambar 1. *Dataset* DDoS Serangan SYN

2. Me-load *Dataset* serangan DDoS pada serangan SYN kedalam program *data mining* WEKA.



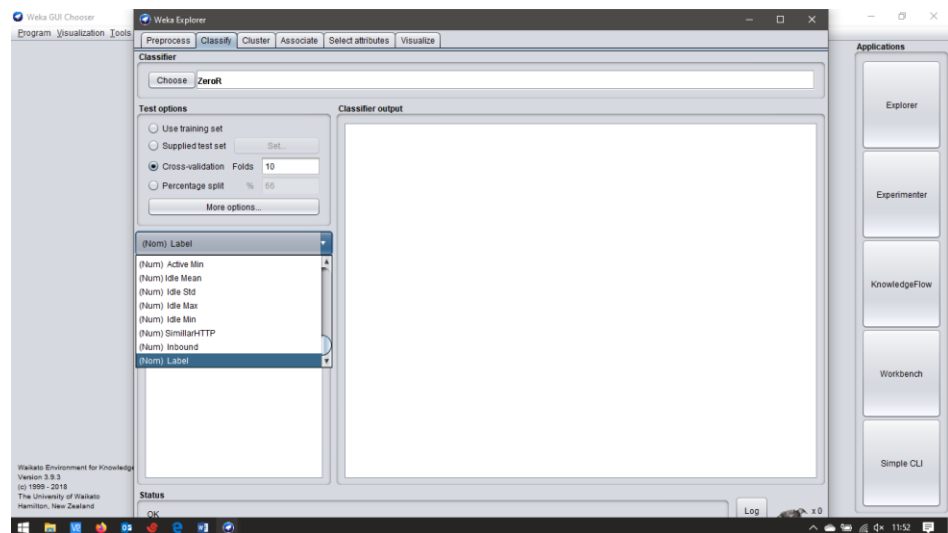
Gambar 2. Load *Dataset* serangan DDoS pada serangan SYN ke dalam Program *Data Mining* WEKA

- Proses selanjutnya yaitu memilih algoritma klasifikasi yang akan di gunakan, pada menu dropdown pada gambar dibawah dapat dipilih klasifikasinya dan digunakan sesuai dengan klasifikasi yang ingin digunakan.



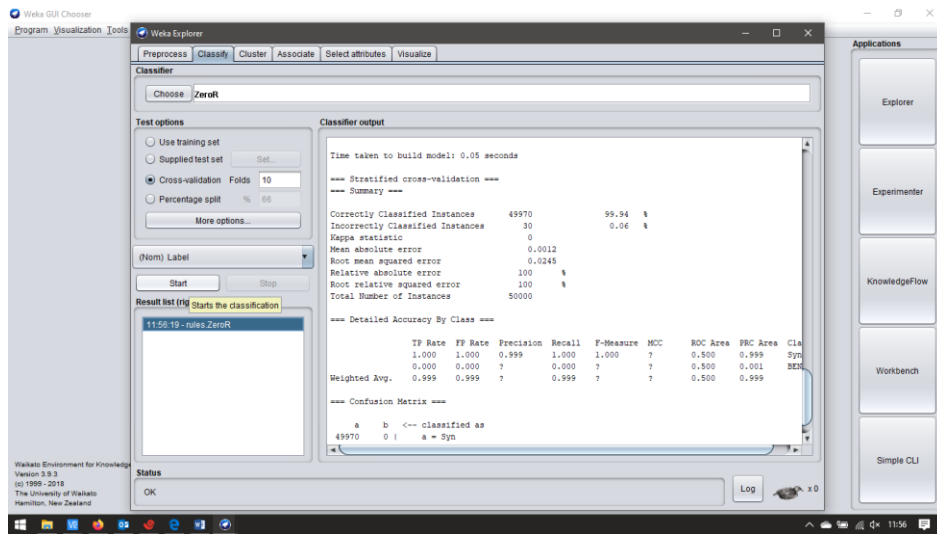
Gambar 3. Pemilihan Algoritma Klasifikasi pada Program *Data Mining WEKA*

- Selanjutnya, memilih metode pengujian yang digunakan, metode pengujian yang digunakan adalah *Cross-Validation* dengan 10 kali proses validasi/*Folds*.
- Setelah memilih klasifikasi yang akan digunakan, selanjutnya akan dipilih atribut pada Dataset yang akan di gunakan untuk mengklasifikasikan Dataset tersebut.



Pemilihan Atribut pada *Dataset* untuk proses Klasifikasi serangan SYN pada Program *Data Mining WEKA*..

6. Selanjutnya menekan tombol *Start* yang ada dibawah menu *dropdown* atribut. Pada tahapan ini akan ditemukan hasil klasifikasi seperti pada gambar berikut.



Gambar 5. Hasil klasifikasi *Dataset* serangan DDoS pada serangan SYN ke dalam Program *Data Mining* WEKA.

LAMPIRAN PROSES KLASIFIKASI PADA *DATASET* DDOS SERANGAN NTP PADA WEKA

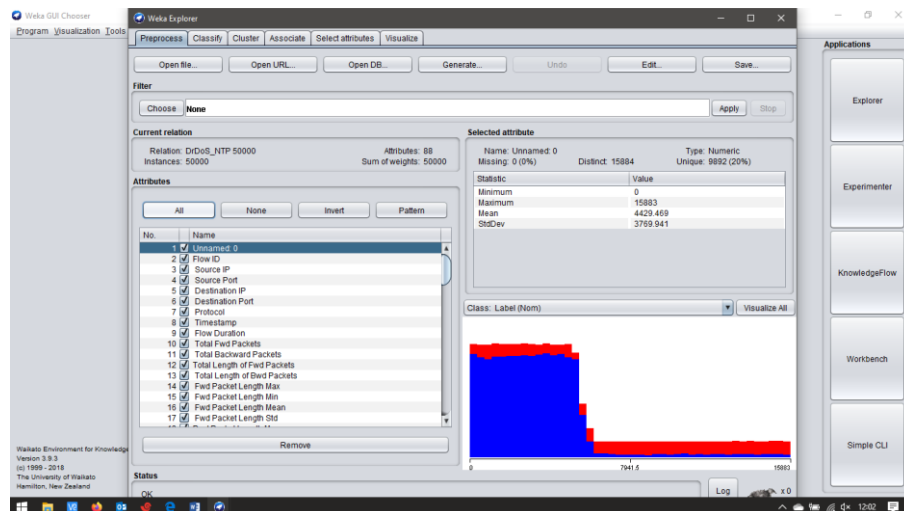
Tahapan klasifikasi *Dataset* DDoS dengan serangan NTP pada WEKA adalah sebagai berikut:

1. Pengambilan *Dataset* serangan DDoS pada serangan NTP.

Unnamed: 0	Flow ID	Source IP	Source Port	Destination IP	Destination Port	Protocol	Timestamp	Flow Duration	Total Fwd Packets	Total
000001	0	172.16.0.5-192.168.50.1-60675-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:11.183810	5220876	12	9
000002	7	172.16.0.5-192.168.50.1-60676-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:11.205636	12644252	5	2
000003	12858	192.168.50.7-65.55.163.78-50458-443-6	65.55.163.78	192.168.50.7	50458	6	2018-12-01 09:17:12.634569	3	2	0
000004	16191	192.168.50.7-65.55.163.78-50458-443-6	65.55.163.78	192.168.50.7	50458	6	2018-12-01 09:17:13.458378	3	2	0
000005	239	192.168.50.253-224.0.0.5-0-0-0	192.168.50.253	224.0.0.5	0	0	2018-12-01 09:17:13.478913	114329232	52	0
000006	64	172.217.3.110-192.168.50.6-80-56085-6	192.168.50.6	172.217.3.110	80	6	2018-12-01 09:17:13.931484	34847273	9	8
000007	255	192.168.50.6-23.194.142.15-58323-443-6	192.168.50.6	23.194.142.15	443	6	2018-12-01 09:17:14.072890	119842965	29	30
000008	69	192.168.50.6-72.21.91.29-56123-80-6	192.168.50.6	72.21.91.29	80	6	2018-12-01 09:17:14.181594	35613140	9	0
000009	68	192.168.50.6-8.43.72.98-56133-443-6	192.168.50.6	8.43.72.98	443	6	2018-12-01 09:17:14.244036	35550443	11	8
000010	5	172.16.0.5-192.168.50.1-53948-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:16.230610	5008872	8	7
000011	1	172.16.0.5-192.168.50.1-60675-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:16.404669	176	1	1
000012	14296	172.16.0.5-192.168.50.1-60676-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:16.404668	95	1	2
000013	242	192.168.50.254-224.0.0.5-0-0-0	192.168.50.254	224.0.0.5	0	0	2018-12-01 09:17:16.820501	111647435	39	0
000014	13987	192.168.50.7-65.55.163.78-50466-443-6	65.55.163.78	192.168.50.7	50466	6	2018-12-01 09:17:17.363505	2	2	0
000015	11217	192.168.50.7-65.55.163.78-50457-443-6	65.55.163.78	192.168.50.7	50457	6	2018-12-01 09:17:18.095435	2	2	0
000016	2	192.168.50.8-23.194.142.15-58323-443-6	192.168.50.8	23.194.142.15	443	6	2018-12-01 09:17:20.208943	200	1	2
000017	3	192.168.50.8-23.194.142.15-58323-443-6	192.168.50.8	23.194.142.15	443	6	2018-12-01 09:17:20.179767	1	2	0
000018	4	192.168.50.8-23.194.142.15-58323-443-6	192.168.50.8	23.194.142.15	443	6	2018-12-01 09:17:20.200721	221	5	0
000019	15248	192.168.50.8-23.194.142.15-58323-443-6	192.168.50.8	23.194.142.15	443	6	2018-12-01 09:17:20.208943	200	1	2
000020	6	172.16.0.5-192.168.50.1-53948-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:21.239485	233	1	1
000021	11570	172.16.0.5-192.168.50.1-53948-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:21.239721	96	1	2
000022	8	172.16.0.5-192.168.50.1-60676-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:23.849891	184	1	1
000023	11996	172.16.0.5-192.168.50.1-60676-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:23.859077	112	1	2
000024	9	172.16.0.5-192.168.50.1-62470-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:25.430378	5446884	12	9
000025	11	172.16.0.5-192.168.50.1-25927-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:25.708205	5900903	12	9
000026	55	172.16.0.5-192.168.50.1-25926-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:25.808451	16249979	5	2
000027	12364	192.168.50.7-4.2.2.4-55491-53-17	192.168.50.7	4.2.2.4	53	17	2018-12-01 09:17:26.528896	20720	2	2
000028	230	192.168.50.7-40.76.207.208-50474-443-6	192.168.50.7	40.76.207.208	443	6	2018-12-01 09:17:26.550449	103119730	75	96
000029	18073	192.168.50.7-40.76.207.208-50475-6	192.168.50.7	40.76.207.208	6	6	2018-12-01 09:17:26.805173	9015577	6	0
000030	38	172.16.0.5-192.168.50.1-49591-80-6	172.16.0.5	192.168.50.1	80	6	2018-12-01 09:17:29.195244	5077768	12	9
000031	542	192.168.50.7-4.2.2.4-54594-53-17	192.168.50.7	4.2.2.4	53	17	2018-12-01 09:17:30.229602	65880	2	2

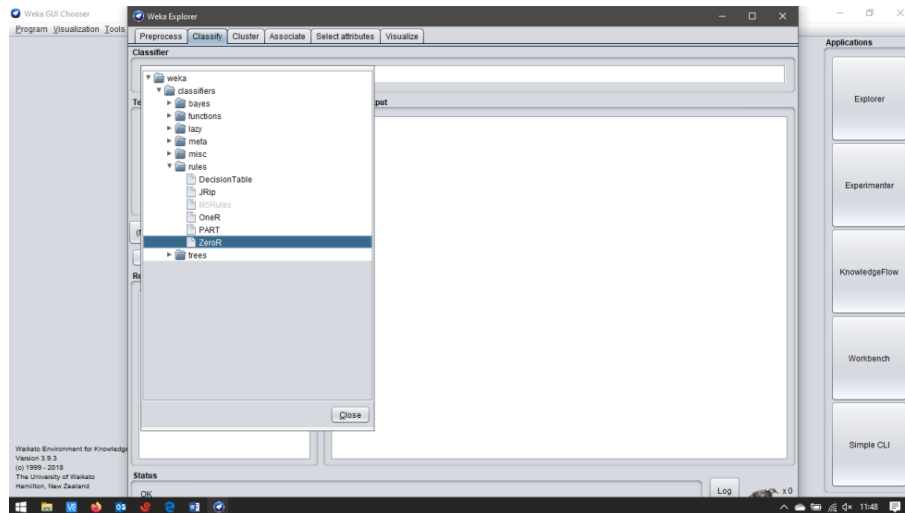
Gambar 1. *Dataset* DDoS Serangan NTP

2. Me-load *Dataset* serangan DDoS pada serangan NTP kedalam program *data mining* WEKA.



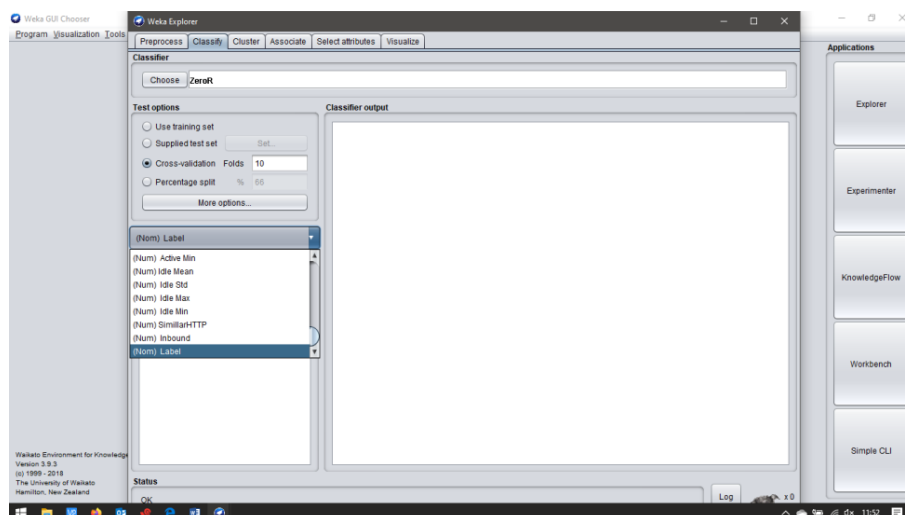
Gambar 2. Load *Dataset* serangan DDoS pada serangan NTP ke dalam Program *Data Mining* WEKA

3. Proses selanjutnya yaitu memilih algoritma klasifikasi yang akan di gunakan, pada menu dropdown pada gambar dibawah dapat dipilih klasifikasinya dan digunakan sesuai dengan klasifikasi yang ingin digunakan.



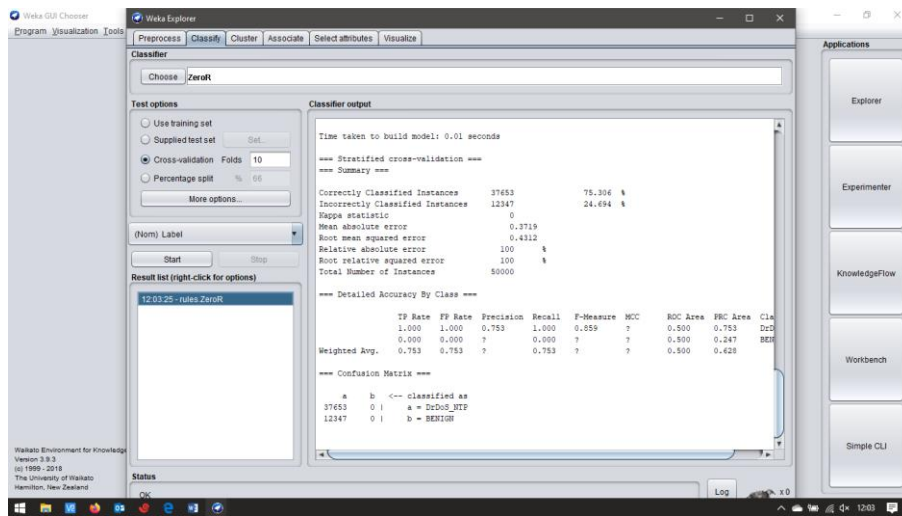
Gambar 3. Pemilihan Algoritma Klasifikasi pada Program *Data Mining WEKA*

4. Selanjutnya, memilih metode pengujian yang digunakan, metode pengujian yang digunakan adalah *Cross-Validation* dengan 10 kali proses validasi/*Folds*.
5. Setelah memilih klasifikasi yang akan digunakan, selanjutnya akan dipilih atribut pada Dataset yang akan di gunakan untuk mengklasifikasikan Dataset tersebut.



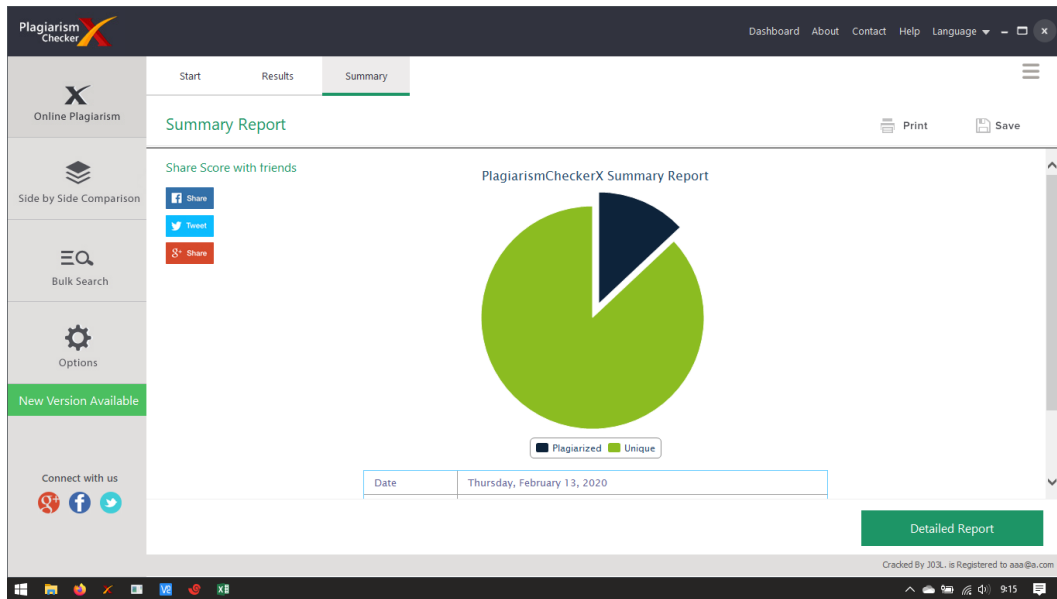
Gambar 4. Pemilihan Atribut pada *Dataset* untuk proses Klasifikasi serangan NTP pada Program *Data Mining WEKA*.

6. Selanjutnya menekan tombol *Start* yang ada dibawah menu *dropdown* atribut. Pada tahapan ini akan ditemukan hasil klasifikasi seperti pada gambar berikut.



Gambar 5. Hasil klasifikasi *Dataset* serangan DDoS pada serangan NTP ke dalam Program *Data Mining* WEKA.

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Vendor perangkat lunak dan perangkat keras secara berkala merilis pembaruan dan peningkatan berkala

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