Total amount of alerts: 83,386,403

- 10⁷

- 10⁶

- 10⁵

- 10⁴

- 10³

- 10²

- 10¹

		iotai	amount of a	ierts: 83,386,	,403	
Entropy of destination IP addresses -	37	105	198	40	50	152
Entropy of source IP addresses -	66	102	120	80	74	150
Entropy of bi-directional flows -	67	147	215	40	50	167
Entropy rate of destination IP addresses -	121	57	199	57	60	154
Entropy rate of source IP addresses -	95	117	153	69	67	175
Entropy rate of bi-directional flows -	130	128	215	57	56	114
Entropy of packet sizes -	149	180	132	45	56	35
Entropy rate of packet sizes -	210	181	134	47	67	37
Entropy of ingress packet sizes -	191	173	216	210	214	217
Entropy rate of ingress packet sizes -	91	214	215	156	217	153
Entropy of egress packet sizes -	215	213	215	164	215	216
Entropy rate of egress packet sizes -	176	213	190	139	211	215
Entropy of destination IP addresses with SYN flag -	104	71	134	14		29
Entropy of source IP addresses with SYN flag -	126	215	26	45		51
Entropy of bi-directional flows with SYN flag -	104	176	185	14		42
K-means with NetFlow header fields -	17,151,246	19,549,046	7,421,142	3,983,131	1,820,776	3,409,818
K-means with NetFlow entropy metrics -	210	91	27	204	139	101
K-means with NetFlow combined feature set -	7,547,594	8,879,332	2,819,709	1,038,441	947,736	1,682,641
K-means with telemetry measurements -	2,382	4,456	862	4,224	4,819	1,689
K-means with telemetry entropy metrics -	66	101	127	75	68	145
K-means with telemetry combined feature set -	1,042	2,579	814	2,574	2,417	1,266
Random Forest with NetFlow header fields -	627,936	356,819	610,136	810,588	533,329	345,649
Random Forest with NetFlow header fields without IPs -	358,154	350,819	362,617	707,296	533,329	103,496
Random Forest with NetFlow entropy metrics -	6	331,200	36	75	74	140
Random Forest with NetFlow combined feature set -	5	29	35	1,100	58,970	322,430
Random Forest with NetFlow combined feature set without IPs -	J	29	78	687	56,684	102,886
	647	4.030				
Random Forest with telemetry measurements -	647	4,030	3,094	1,182	3,688	5,249
Random Forest with telemetry entropy metrics -	226	31	174	38	32	6
Random Forest with telemetry combined feature set -	7,200	608	5,785	977	5,515	371
Bytes in NetFlow records -	185	197	32	128	137	214
Packets in NetFlow records -	149	120	47	132	132	205
Bi-directional flows in NetFlow records -	215	14	101	66	113	78
Ingress bytes in telemetry measurements -	217	217	194	168	217	212
Ingress packets in telemetry measurements -	215	217	216	193	217	214
Egress bytes in telemetry measurements -	213	165	216	168	217	148
Egress packets in telemetry measurements -	214	173	209	193	217	210
Deviation score for egress queue size -	7,172	6,647	2,708	6,253	3,968	
Deviation score for egress bytes/s -	7,135	3,016	6,933	6,128	3,054	2,758
Deviation score for egress packets/s -	6,095	3,798	7,100	6,052	2,838	5,924
Deviation score for ingress bytes/s -	7,167	7,122	7,136	6,138	3,065	5,904
Deviation score for ingress packets/s -	6,366	5,740	6,885	5,689	2,810	6,382
Peviation score for egress queue size using maximum variance -	7,200	5,613	1,790	7,040	4,931	
Deviation score for egress bytes/s using maximum variance -	6,022	1,191	619	6,181	2,851	741
Deviation score for egress packets/s using maximum variance -	418	995	245	4,155	2,837	951
Deviation score for ingress bytes/s using maximum variance -	6,009	7,124	2,330	6,185	2,668	1,157
Deviation score for ingress packets/s using maximum variance -	414	2,947	1,193	4,030	2,826	834
ICMP destination unreachable packets -	174	189	142	40	6	29
ICMP packets -	78	78	76	78	64	62
	98	107	92	62	18	81
ICMP ratio -				1.0		
ICMP ratio - Xmas flows -	81	50	50	16		
	81 54,313	50 318,292	63,534	103,213	376	150
Xmas flows -			_		376 2,223	150 1,018