Total amount of alerts: 83,547,528

- 10<sup>7</sup>

- 10<sup>6</sup>

- 10<sup>5</sup>

- 10<sup>4</sup>

- 10<sup>3</sup>

- 10<sup>2</sup>

- 10<sup>1</sup>

		Tota	l amount of a	lerts: 83,547	,528	
Entropy of destination IP addresses -	215	214	211	124	210	206
Entropy of source IP addresses -	165	207	192	128	146	203
Entropy of bi-directional flows –	203	190	215	124	210	206
Entropy rate of destination IP addresses -	205	214	213	128	209	207
Entropy rate of source IP addresses -	183	208	192	104	181	208
Entropy rate of bi-directional flows -	205	200	215	127	210	195
Entropy of packet sizes –	214	202	179	150	191	208
Entropy rate of packet sizes -	210	202	185	151	208	212
Entropy of ingress packet sizes -	216	200	216	210	217	217
Entropy rate of ingress packet sizes -	211	214	215	217	217	217
Entropy of egress packet sizes -	215	213	215	216	217	216
Entropy rate of egress packet sizes -	215	213	206	214	215	215
Entropy of destination IP addresses with SYN flag -	180	194	211	197	207	213
Entropy of source IP addresses with SYN flag -	181	215	133	110	15	118
Entropy of bi-directional flows with SYN flag -	180	176	185	197	173	180
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	351,286	362,617	707,296	531,241	103,496
Random Forest with NetFlow entropy metrics -	6		36	75	74	140
Random Forest with NetFlow combined feature set -		29	35	1,100	58,970	322,430
andom Forest with NetFlow combined feature set without IPs -			78	687	56,684	102,886
Random Forest with telemetry measurements -		4,030	3,094	1,182	3,688	5,249
Random Forest with telemetry entropy metrics -		31	174	38	32	6
Random Forest with telemetry combined feature set -		608	5,785	977	5,515	371
Bytes in NetFlow records -		197	160	211	215	214
Packets in NetFlow records -		205	173	213	215	205
Bi-directional flows in NetFlow records -		196	200	201	202	156
Ingress bytes in telemetry measurements -		217	203	204	217	212
Ingress packets in telemetry measurements -		217	216	213	217	214
Egress bytes in telemetry measurements -		165	216	214	217	198
Egress packets in telemetry measurements -		173	209	214	217	210
Deviation score for egress queue size -	7,193	7,001	6,937	7,069	6,985	210
Deviation score for egress bytes/s -		7,001	7,177	6,733	7,043	7,200
Deviation score for egress packets/s -	7,177	7,119 7,124	7,177	6,435	7,043	7,200
Deviation score for ingress bytes/s -		7,124	7,184	6,637	7,043 7,041	7,200
Deviation score for ingress bytes/s -		7,122	7,130 7,152	6,240	7,041	7,200
- eviation score for egress queue size using maximum variance	7,196 7,200	5,613	6,963	7,044	4,931	
- Deviation score for egress queue size using maximum variance	7,200 7,145	7,125	7,130	6,519	7,042	7,200
Deviation score for egress packets/s using maximum variance -	7,143 7,064	7,123 7,124	7,130 7,120	5,152	7,042	7,200
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Deviation score for ingress bytes/s using maximum variance -	7,200	7,124	7,124	6,496	7,041	7,200
Deviation score for ingress packets/s using maximum variance -	6,922	7,124	7,138	4,833	7,044	7,200
ICMP destination unreachable packets -		206	184	56	6	162
ICMP packets -		213	207	208	211	202
ICMP ratio -		215	193	189	199	214
Xmas flows -		50	50	16		
SYN flows -	54,313	318,292	63,534	103,213	376	150
Top 20 flows -	3,622	2,820	3,888	1,831	2,223	1,018
	ARI	AR2	AR3	ARA	VR.	CR3