

HACKIITK2020-Round-1

1. Static Malware Analysis:

We considered 11 DLLs; 97 function calls mostly used by malware

We used Random Forest Classifier and achieved the following:

	precision	recall	f1-score	support
0	0.98	0.99	0.99	1235
1	0.99	0.98	0.98	1234
accuracy			0.99	2469
macro avg	0.99	0.99	0.99	2469
weighted avg	0.99	0.99	0.99	2469

2. Dynamic Malware Analysis:

We considered 16 features related to files, directories, reg_keys, top 35 file extensions with their modifications, top 257 API calls with hit rate, top 16 API call categories, top 112 cuckoo signatures.

We used Random Forest Classifier and achieved the following:

	precision	recall	f1-score	support
0	1.00	1.00	1.00	1249
1	1.00	1.00	1.00	1241
accuracy			1.00	2490
macro avg	1.00	1.00	1.00	2490
weighted avg	1.00	1.00	1.00	2490

We built classifiers for static and dynamic analysis respectively.