

The results of computing Generative-Adversarial Network

File number in the dataset	grum file hash values (20 byte)	grum file hash values (40 byte)	Editorial distance	Percentage of malware samples calculated using sdeep	Percentage of malware samples computed using GAN-1			Percentage of malware samples computed using GAN-2		
					Training epoch			Training epoch		
					I	II	III	I	II	III
1.	d0bd1f1561f85fc05165 0d0df1ff5c5dcdbbddd	d16f8f6d105070d7b0d0 fd0801d1f1fb610d77f8	33	41	44	48	47	39	37	38
2.	70c7f6dfdf0770ddc0f8 d018ddf7dc0d01f565d0	d1f11f601d510c065ddd d6dfd0870661fd1fd6dc	31	40	44	42	46	38	34	30
3.	c0d0c8dcffbf7d7d8d0d 1fd70ffd1f0d7d0d7ddc	06b0d70dfd10d861d70b dfd6c0560dcd1b6017bc	30	39	44	45	46	42	41	39
4.	675d0801016cd01cf787 b07d6dd10ddfd7df5dc1	7d5b1f8855d8db01d5f5 d6cd80d7ddc0ffd0c1f	30	38	42	46	45	30	32	34
5.	1757dcd0fbb75f1156f0 1010ddd05d0d085871f	bdf5d0f06ff50d160ccb cdd80b1cddd0d5fddbd0	32	34	29	32	31	42	41	44
6.	b15fc0d550f7050fd861 0d1176d0dbfd660107d8	ffdf0dd1fd7ddd80fc 05d077f7fd88dd0d6d0b	31	37	38	39	41	42	41	43
7.	c617bb11ff1bf061dfdd f81ffdb0cddd16db5dd6	7ddffc7d60bfd6dd61fd c6dfbd1d1ff870dd867f	31	38	44	42	41	38	37	34
8.	0d68f0dbd71f51b51f0d 085d77dddf0dbf1dcdb	d0d871fd0d16c0f566d0 d6650df1dbc0b07d06d0	31	41	39	38	41	44	42	43
9.	d6c1fcbffbfdb1b1fd0 5ddd11f1d65606ccb018	861f718dc0d10dd0c50d 5ddd11d58ff15bfc8dfdc	31	37	35	34	36	41	42	44
10.	7d7d1fd1035d1fd1f701 585bc77d1f7f0d5d7c0d	1161f68bfd8d8161f5dd 81fc107d60d1ff6cdff6	32	36	44	42	46	34	35	34
11.	0dd1fd0dfc0686f8010d f7176f1f0f1d7cfd57df	f1cc6fdd8cbd7f1fd158 b0d16bd1dd0ddcb0cbd1	32	35	42	46	44	37	39	39
12.	f1cc6fdd8cbd7f1fd158 b0d16bd1dd0ddcb0cbd1	06087d5fddd10fddd0f c068ddd55f685dd0f5d	33	37	43	46	45	39	41	41
13.	0dcbbd87df760d57dd8f1 dd0f7fb51fdd5f70bdf	d1fc885cdbbd1c08d7b1 d1f0ddd665dbfdf557d	31	38	41	44	42	32	31	33
14.	761fd0ddd7bd6ffd61f1 60bf0b1ff18b6dfdd8ff	55bd770f6d61f60105f8 cbb585d58d1fd8fd08d0	32	31	42	43	44	35	34	34
15.	0d1085f610fd0f5ddb51 50ddd8df0d1fdf7b70b0	80db0fd77ddcd61df580 bd18dd7d0dd16d7df51f	29	34	39	38	39	41	37	37
16.	dbd8d77d6d65fddf1ccf cdf857db705dd1fff1f0	57fbdfd7f16d0f7ccb6 bd1b78bc1f80c1f11fd1f	29	33	39	41	41	30	32	33
17.	587ddd0d8b15101d60d bf8ddd7dd0b8d71f1f05	f80c507b0d8d1fd0d11f c50cb5ddc0cddbc0db68	31	38	44	45	44	31	32	33
18.	1fcd671b7d8df5f1ff8 f5fd0ddb01df60d7d06c7	b0d5b76fcd78c0c6066f df8f6cbd60705706c7df	31	38	42	45	44	32	35	35
19.	70d5cc61f0510f85bfdd dcdf5ddcddd07d1fd0d6	d16dddfbddcdf010d80c d70ddb8167b1c0d5f0d0	31	40	42	44	46	32	31	33
20.	05ff06fdddcf701cd1bb 07fddd57fd8d0df061bb	0176b0d06d055d78dfb1 cd76c8d51d0d1fcd651c	31	39	42	46	45	32	34	34