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1 AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • 2 c_9_zero_trust_protocol.md

```

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources .json
 1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
 18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources `json`
21 rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
22 rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
23 Enter full path to directory containing `.hash` and `sha` files:
24 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies
25
26 ✓ Extracted Hash Summary:
27
28 Filename SHA256 RIPEMD160
29
30 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
31 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
32 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43ecee238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
33 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
34 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cd8bb2c2aef718f5e5a98244d569f651fa833
35 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
36 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc f7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
37 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
38 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aae525c15b0910617c
39 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
40 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
41 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
42 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json 195cea7a1834831b859fbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
43 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
44 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json b106b8ec7202b213f3324aaaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
45 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json f6990503d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
46 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
47 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json c34c893f48ba12cd7e329a0b8bf2afb0f139d30892d6e534082f126afffcac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
48 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
49 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
50 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c0480 ecd2de218d958f359e2f9df0ccf132f502e462ba
51 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
52 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
53 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
54 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json a63fd45a49625edf2f4038b9f6e6ed1114a25ccb9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
55 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
56 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
57 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
58 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
59 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccfd33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
60 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
61
62 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv
63
64
```



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1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/_hashes/SENTINFRA
72
73 Extracted Hash Summary:
74
75 Filename SHA256 RIPEMD160
76
77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdbb2c2aef718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c669445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2af06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
108
109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/_hashes/SENTINFRA/hash_audit_report.csv
110 rosmontos@mac Sentinel3.1_public_tools_testing %
111 ``

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```
1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json` 
21 rosmontos@mac ~ % cd ~/users/rosmontos/Desktop/Sentinel3.1_public_tools_testing
22 rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
23 📁 Enter full path to directory containing ` `.hash` and ` `.2ha` files:
24 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies
25
26 ✅ Extracted Hash Summary:
27
28   Filename           SHA256          RIPEMD160
29
30 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
31 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
32 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
33 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
34 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdbb2c2aef718f5e5a98244d569f651fa833
35 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
36 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
37 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
38 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
39 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
40 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
41 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddf ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
42 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
43 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
44 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
45 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
46 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c669445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
47 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
48 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
49 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
50 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
51 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
52 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
53 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
54 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json a63fd45a49625edf2f4038b9f6e6ed1114a25ccb9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
55 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
56 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
57 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
58 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
59 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
60 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
61
62 📁 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv
```



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1 AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • 2 c_9_zero_trust_protocol.md

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources.json

```
1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
70 Enter full path to directory containing .nasn and .zna files:
71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/_hashes/SENTINFRA
72
73 ✓ Extracted Hash Summary:
74
75 Filename SHA256 RIPEMD160
76
77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdcb2c2aef718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1fcfc410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aeee525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddd ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edab5a 8fa328c85f5f9aa30ce3ebf6690e01351aa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fdb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2af06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aab5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
108
109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/_hashes/SENTINFRA/hash_audit_report.csv
110 rosmontos@mac Sentinel3.1_public_tools_testing %
111 ``
```

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```
1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources `json` 
21 rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
22 rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
23 Enter full path to directory containing `.hash` and `*.2ha` files:
24 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies
25
26 ✓ Extracted Hash Summary:
```

Filename	SHA256	RIPEMD160
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json	35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5	1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json	bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04	99f102c3f2e654d3e45dc813bf296277170443f8
audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json	7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff	74bd86628f762c5de4a2ce1b783b78482de96bca
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json	cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d	9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json	a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42	fe97cdbb2c2ae718f5e5a98244d569f651fa833
audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json	6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a	8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json	3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf	d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json	9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9	ce6acb25c23ab250504145cf657d292f639a24f
audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json	f1aad6c24b361fdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0	ea3a8f156273cf1ee696f8aae525c15b0910617c
audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json	3cebe32bbf9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e	987cf9cc669500dc1b179d86eaacd8c4178cbd3e
audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json	e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b	232f98b38f50d7571cdc4786b3628a7fa413c4be
audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json	b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9dddff	ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json	195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc	5aa30f039b5083f08f0ea280e743831c355fd123
audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json	281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78	aa71bb1611fce96cdf60137f21b1b7649b5ade32
audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json	b106b8ec7202b213f3324aab5ed922b585ecc10d960df6e9992daa68d52dea74	f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json	f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842	74a9716effd0ce3ab685f9ebf981bb12e5def2f6
audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json	aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae	31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json	c34c893f48ba12cd7e329a0b8bf2afb0f139d30892d6e534082f126affcfac3	2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json	38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490	0db672f7d44cb0c859c87cec81d1e9fd9329e37d
audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json	4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1	af16e0c1076add75f60c9efc1350fa16f794ff69
audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json	5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80	ecd2de218d958f359e2f9df0ccf132f502e462ba
audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json	7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67	9ab059c573469aa0961a3f32920705bb72d82f14
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json	25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c	ca874197a16e9fa00931001f103be701e0d26fcfa
audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json	5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4	3da18c1a2c183ca24277b8d8047fd52b83a74ea3
audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json	a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c	b4c7dff3735665f5a2296cf971d0b31c1f225594
audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json	8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68	48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json	f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c	e181b923d572b255ad96f1df58c6d6e6976dc74a
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json	96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074	14359d685e1c149212d9d289b8f91de307bc9698
audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json	ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756	e95b69719c349af90c94bab19e545ab132da1bb2
audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json	fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522	9d7a7f085c2cc756620592e3137fa11bb54fea83
audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json	7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f	f7055f4a29b6b0397d09bf991970134508f7f0a8
	Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv	

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1 AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • 2 c_9_zero_trust_protocol.md

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources.json

1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/ hashes/SENTINFRA
72
73 Extracted Hash Summary:
74
75 Filename SHA256 RIPEMD160
76
77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdbb2c2aeaf718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddf ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc7 d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862e67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
108
109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/ hashes/SENTINFRA/hash_audit_report.csv
110 rosmontos@mac Sentinel3.1_public_tools_testing %
111 ...

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```

1  # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources `json`  

25
26  Extracted Hash Summary:  

27
28   Filename           SHA256          RIPEMD160
29
30 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
31 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
32 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
33 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
34 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdbb2c2aef718f5e5a98244d569f651fa833
35 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
36 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5acf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
37 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
38 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
39 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json 3cebe32bff9e5062886300f42f4b09e0f3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
40 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
41 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9dff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
42 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
43 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json 281892f60f240e05d17c7f3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
44 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
45 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
46 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c669445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
47 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
48 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
49 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
50 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
51 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
52 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
53 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
54 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
55 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
56 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
57 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
58 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
59 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
60 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json f79936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
61
62  Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv
63
64 ---
65
66
67 ## Live Extraction of Original Hashes SENTINFRA
68

```

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Code Editor Icons: Finder, Touch ID, Photos, Chrome, Zoom, Notes, Calendar (Aug 3), Reminders, R, Mail, Bitcoin, Settings, EN, Mailbox, Lock, Excel, VS Code, Trash, Screenshot, Screenshots (8am 2025-08-03 55.38am)

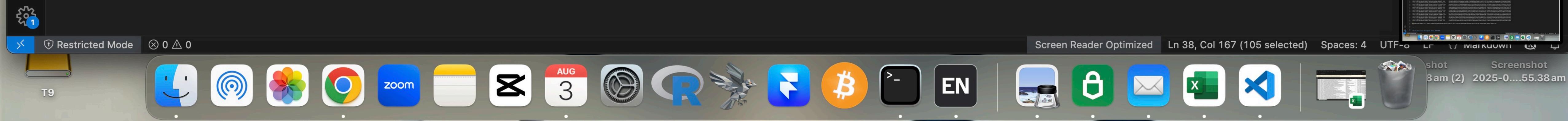
AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

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1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA

72
73 Extracted Hash Summary:

Filename	SHA256	RIPEMD160
audit_log_SENTINFRA-SESS002_20250721T033347.027668Z	4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1	af16e0c1076add75f60c9efc1350fa16f794ff69
audit_log_SENTINFRA-LOG011_20250719T072829.126010Z	a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c	b4c7dff3735665f5a2296cf971d0b31c1f225594
audit_log_SENTINFRA-LOG018_20250728T032714.949792Z	195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc	5aa30f039b5083f08f0ea280e743831c355fd123
audit_log_SENTINFRA-LOG022_20250728T032815.551840Z	a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42	fe97cd82c2aef718f5e5a98244d569f651fa833
audit_log_SENTINFRA-SESS005_20250728T040641.075372Z	38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490	0db672f7d44cb0c859c87cec81d1e9fd9329e37d
audit_log_SENTINFRA-SESS002_20250725T033737.775435Z	9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9	ce6acb25c23ab250504145cfa657d292f639a24f
audit_log_SENTINFRA-SESS002_20250725T001032.263976Z	e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b	232f98b38f50d7571cdc4786b3628a7fa413c4be
audit_log_SENTINFRA-LOG010_20250719T072811.283310Z	aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c669445bce2bae	31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
audit_log_SENTINFRA-LOG004_20250719T072619.021572Z	fe27bc08ec39e1cfcc410650fcf57c216480954d8334ffccf0d33764ee227522	9d7a7f085c2cc756620592e3137fa11bb54fea83
audit_log_SENTINFRA-LOG001_20250719T072509.043944Z	f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842	74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
audit_log_SENTINFRA-SESS002_20250725T033234.501790Z	f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0	ea3a8f156273cf1ee696f8aee525c15b0910617c
audit_log_SENTINFRA-LOG016_20250728T032642.949640Z	ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49cc910b6ece756	e95b69719c349af90c94bab19e545ab132da1bb2
audit_log_SENTINFRA-LOG013_20250720T020423.154072Z	b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddd	ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
audit_log_SENTINFRA-SESS001_20250721T030320.457090Z	f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c	e181b923d572b255ad96f1df58c6d6e6976dc74a
audit_log_SENTINFRA-LOG006_20250719T072655.317458Z	7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff	74bd86628f762c5de4a2ce1b783b78482de96bca
audit_log_SENTINFRA-LOG019_20250728T032727.445123Z	6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a	8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
audit_log_SENTINFRA-LOG003_20250719T072600.077907Z	3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e	987cf9cc669500dc1b179d86eaacd8c4178cbd3e
audit_log_SENTINFRA-LOG015_20250720T024034.238954Z	8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68	48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z	25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c	ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z	3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc	d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
audit_log_SENTINFRA-LOG002_20250719T072537.417349Z	7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f	f7055f4a29b6b0397d09bf991970134508f7f0a8
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z	35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5	1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG008_20250719T072735.155936Z	5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80	ecd2de218d958f359e2f9df0ccf132f502e462ba
audit_log_SENTINFRA-LOG012_20250720T013315.075405Z	7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67	9ab059c573469aa0961a3f32920705bb72d82f14
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z	bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04	99f102c3f2e654d3e45dc813bf296277170443f8
audit_log_SENTINFRA-LOG020_20250728T032738.625875Z	281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78	aa71bb1611fce96cdf60137f21b1b7649b5ade32
audit_log_SENTINFRA-LOG021_20250728T032800.504091Z	c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3	2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
audit_log_SENTINFRA-SESS002_20250721T230909.696517Z	5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4	3da18c1a2c183ca24277b8d8047fd52b83a74ea3
audit_log_SENTINFRA-LOG017_20250728T032702.256334Z	b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74	f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z	cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d	9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z	96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074	14359d685e1c149212d9d289b8f91de307bc9698
109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/ hashes/SENTINFRA/hash_audit_report.csv		
110 rosmontos@mac Sentinel3.1_public_tools_testing %		
111 ``		



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1 AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • 2 c_9_zero_trust_protocol.md

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources .json

```

1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources ` .json`
```

26 Extracted Hash Summary:

Filename	SHA256	RIPEMD160
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json	35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5	1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json	bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04	99f102c3f2e654d3e45dc813bf296277170443f8
audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json	7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff	74bd86628f762c5de4a2ce1b783b78482de96bca
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json	cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d	9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json	a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42	fe97cdbb2c2aef718f5e5a98244d569f651fa833
audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json	6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a	8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json	3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5acf	d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json	9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9	ce6acb25c23ab250504145cfa657d292f639a24f
audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json	f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0	ea3a8f156273cf1ee696f8aee525c15b0910617c
audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json	3cebe32bfff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e	987cf9cc669500dc1b179d86eaacd8c4178cbd3e
audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json	e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b	232f98b38f50d7571cdc4786b3628a7fa413c4be
audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json	b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9dff	ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json	195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc	5aa30f039b5083f08f0ea280e743831c355fd123
audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json	281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78	aa71bb1611fce96cdf60137f21b1b7649b5ade32
audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json	b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74	f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json	f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842	74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json	aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae	31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json	c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3	2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json	38fa755c2d5295a71ac709b87b7a9eb207ebc92daba982664343da0ce5c5cc490	0db672f7d44cb0c859c87cec81d1e9fd9329e37d
audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json	4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1	af16e0c1076add75f60c9efc1350fa16f794ff69
audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json	5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80	ecd2de218d958f359e2f9df0ccf132f502e462ba
audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json	7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67	9ab059c573469aa0961a3f32920705bb72d82f14
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json	25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c	ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json	5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4	3da18c1a2c183ca24277b8d8047fd52b83a74ea3
audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json	a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c	b4c7dff3735665f5a2296cf971d0b31c1f225594
audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json	8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68	48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json	f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c	e181b923d572b255ad96f1df58c6d6e6976dc74a
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json	96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074	14359d685e1c149212d9d289b8f91de307bc9698
audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json	ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756	e95b69719c349af90c94bab19e545ab132da1bb2
audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json	fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522	9d7a7f085c2cc756620592e3137fa11bb54fea83
audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json	7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f	f7055f4a29b6b0397d09bf991970134508f7f0a8
61		
62	Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv	
63		
64		
65	---	
66		
67	## Live Extraction of Original Hashes SENTINFRA	
68	````	
69	rosmontos@mac: Sentinel3.1_public_tools_testing % python3 extract_hashes.py	

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1 AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • 2 c_9_zero_trust_protocol.md

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```
1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
68 rosmontos@mac Sentinel3.1_public_tools_testing % pythons extract_hashes.py
69 Enter full path to directory containing `.hash` and `*.sha` files:
70 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA
71
72
73 ✓ Extracted Hash Summary:
74
75 Filename SHA256 RIPEMD160
76
77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cd82c2aef718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92db982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffcc0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddd ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660e0f09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7f3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2af06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
108
109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
110 rosmontos@mac Sentinel3.1_public_tools_testing %
111 ``
```

1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources `json`

31 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8

32 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca

33 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461

34 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdbb2c2aef718f5e5a98244d569f651fa833

35 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288

36 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc

37 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f

38 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c

39 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e

40 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be

41 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json b0205a3bd0ae764fa6133f347c82a1cce187119dd5ada47b6b3d82b6ea9ddff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c

42 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json 195cea7a1834831b859fbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123

43 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32

44 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368

45 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6

46 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8

47 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87

48 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d

49 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69

50 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba

51 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14

52 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca

53 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3

54 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594

55 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8

56 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a

57 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

58 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2

59 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83

60 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8

61

62 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv

63

64

65 ---

66

67 ## Live Extraction of Original Hashes SENTINFRA

68

69 rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py

70 Enter full path to directory containing `.hash` and `.ha` files:

71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

72

73 ✓ Extracted Hash Summary:

74

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1 AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • 2 c_9_zero_trust_protocol.md

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources.json

1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/ hashes/SENTINFRA
72
73 ✓ Extracted Hash Summary:
74
75 Filename SHA256 RIPEMD160
76
77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cd82c2aef718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccfd033764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660e0f09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2af06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aaaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
108
109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/ hashes/SENTINFRA/hash_audit_report.csv
110 rosmontos@mac Sentinel3.1_public_tools_testing %
111 ...

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◀ AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • ▶ c_9_zero_trust_protocol.md

Users > rosmontos > Desktop > ▶ AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > □ # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > □ ## Live Rehashing and Extraction of SENTINFRA /frozen_sources.json

```
1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`  
21 rosmontos@mac:~/Desktop/Sentinel3.1_public_tools_testing$ python3 extract_hashes.py  
22 Enter full path to directory containing `hash` and `2ha` files:  
23 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies  
25  
26 ✓ Extracted Hash Summary:  
27  
28 

| Filename                                                 | SHA256                                                            | RIPEMD160                                                                                                                                   |
|----------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json | 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5  | 1608433eafa81cdc8cdc5a5381e9c06e1740e87d                                                                                                    |
| audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json  | bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04    | 99f102c3f2e654d3e45dc813bf296277170443f8                                                                                                    |
| audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json  | 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff  | 74bd86628f762c5de4a2ce1b783b78482de96bca                                                                                                    |
| audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json  | cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d  | 9c29d3e2af96ce129cbf5e83e7a772be58ef8461                                                                                                    |
| audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json  | a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42  | fe97cdbb2c2aef718f5e5a98244d569f651fa833                                                                                                    |
| audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json  | 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a  | 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288                                                                                                    |
| audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json  | 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf  | d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc                                                                                                    |
| audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json | 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9  | ce6acb25c23ab250504145cfa657d292f639a24f                                                                                                    |
| audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json | f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0  | ea3a8f156273cf1ee696f8aeee525c15b0910617c                                                                                                   |
| audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json  | 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e  | 987cf9cc669500dc1b179d86eaacd8c4178cbd3e                                                                                                    |
| audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json | e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b  | 232f98b38f50d7571cdc4786b3628a7fa413c4be                                                                                                    |
| audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json  | b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff  | ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c                                                                                                    |
| audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json  | 195cea7a1834831b859fbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc   | 5aa30f039b5083f08f0ea280e743831c355fd123                                                                                                    |
| audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json  | 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78  | aa71bb1611fce96cdf60137f21b1b7649b5ade32                                                                                                    |
| audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json  | b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74   | f5cb3b67020d9453c75ccf99b762062fa4af3368                                                                                                    |
| audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json  | f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842  | 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6                                                                                                    |
| audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json  | aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae  | 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8                                                                                                    |
| audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json  | c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3  | 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87                                                                                                    |
| audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json | 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490  | 0db672f7d44cb0c859c87cec81d1e9fd9329e37d                                                                                                    |
| audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json | 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1  | af16e0c1076add75f60c9efc1350fa16f794ff69                                                                                                    |
| audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json  | 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80  | ecd2de218d958f359e2f9df0ccf132f502e462ba                                                                                                    |
| audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json  | 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67  | 9ab059c573469aa0961a3f32920705bb72d82f14                                                                                                    |
| audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json  | 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c  | ca874197a16e9fa00931001f103be701e0d26fc4                                                                                                    |
| audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json | 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4  | 3da18c1a2c183ca24277b8d8047fd52b83a74ea3                                                                                                    |
| audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json  | a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c  | b4c7dff3735665f5a2296cf971d0b31c1f225594                                                                                                    |
| audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json  | 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68  | 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8                                                                                                   |
| audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json | f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c  | e181b923d572b255ad96f1df58c6d6e6976dc74a                                                                                                    |
| audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json  | 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074  | 14359d685e1c149212d9d289b8f91de307bc9698                                                                                                    |
| audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json  | ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756  | e95b69719c349af90c94bab19e545ab132da1bb2                                                                                                    |
| audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json  | fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522 | 9d7a7f085c2cc756620592e3137fa11bb54fea83                                                                                                    |
| audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json  | 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f  | f7055f4a29b6b0397d09bf991970134508f7f0a8                                                                                                    |
| 61                                                       | 62                                                                | Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv |


```



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1 AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • 2 c_9_zero_trust_protocol.md

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources.json

```
1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/_hashes/SENTINFRA
72
73 ✓ Extracted Hash Summary:
74
75 Filename SHA256 RIPEMD160
76
77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdbb2c2aef718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1fcfc410650fcf57c216480954d8334ffcc0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aaee525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660e0f09ad61cc07f5adc7 d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2af06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aaaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/_hashes/SENTINFRA/hash_audit_report.csv



110 rosmontos@mac Sentinel3.1_public_tools_testing %



111 ...


```

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1 AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • 2 c_9_zero_trust_protocol.md

```

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources .json
 1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
 18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources `json`  

--  

23 Enter full path to directory containing `.hash` and `sha` files:  

24 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies  

25  

26 ✓ Extracted Hash Summary:  

27  

28 Filename SHA256 RIPEMD160  

29 -----  

30 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d  

31 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json bd18c93b06335a05d4fb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8  

32 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca  

33 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461  

34 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdcc2c2aef718f5e5a98244d569f651fa833  

35 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288  

36 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc  

37 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f  

38 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aae525c15b0910617c  

39 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e  

40 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be  

41 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9dff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c  

42 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json 195cea7a1834831b859fbb891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123  

43 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32  

44 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368  

45 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716eff7d0ce3ab685f9ebf981bb12e5def2f6  

46 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8  

47 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87  

48 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d  

49 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69  

50 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba  

51 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14  

52 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca  

53 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3  

54 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json a63fd45a49625edf2f4038b9f6e6ed1114a25ccbfb9a6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594  

55 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c8 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8  

56 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a  

57 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698  

58 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2  

59 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffcc0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83  

60 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8  

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62 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv  

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • **c_9_zero_trust_protocol.md**

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources.json

```

1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
2
3 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources.json
4
5
6
7 ## Live Extraction of Original Hashes SENTINFRA
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9
10 rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
11 Enter full path to directory containing `hash` and `sha` files:
12 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/ hashes/SENTINFRA
13
14 ✓ Extracted Hash Summary:
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```

SHA256 RIPEMD160

Filename	SHA256	RIPEMD160
audit_log_SENTINFRA-SESS002_20250721T033347.027668Z	4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1	af16e0c1076add75f60c9efc1350fa16f794ff69
audit_log_SENTINFRA-LOG011_20250719T072829.126010Z	a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c	b4c7dff3735665f5a2296cf971d0b31c1f225594
audit_log_SENTINFRA-LOG018_20250728T032714.949792Z	195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc	5aa30f039b5083f08f0ea280e743831c355fd123
audit_log_SENTINFRA-LOG022_20250728T032815.551840Z	a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42	fe97cdbb2c2aef718f5e5a98244d569f651fa833
audit_log_SENTINFRA-SESS005_20250728T040641.075372Z	38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490	0db672f7d44cb0c859c87cec81d1e9fd9329e37d
audit_log_SENTINFRA-SESS002_20250725T033737.775435Z	9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9	ce6acb25c23ab250504145cfa657d292f639a24f
audit_log_SENTINFRA-SESS002_20250725T001032.263976Z	e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b	232f98b38f50d7571cdc4786b3628a7fa413c4be
audit_log_SENTINFRA-LOG010_20250719T072811.283310Z	aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae	31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
audit_log_SENTINFRA-LOG004_20250719T072619.021572Z	fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522	9d7a7f085c2cc756620592e3137fa11bb54fea83
audit_log_SENTINFRA-LOG001_20250719T072509.043944Z	f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842	74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
audit_log_SENTINFRA-SESS002_20250725T033234.501790Z	f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0	ea3a8f156273cf1ee696f8aee525c15b0910617c
audit_log_SENTINFRA-LOG016_20250728T032642.949640Z	ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756	e95b69719c349af90c94bab19e545ab132da1bb2
audit_log_SENTINFRA-LOG013_20250720T020423.154072Z	b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddd	ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
audit_log_SENTINFRA-SESS001_20250721T030320.457090Z	f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c	e181b923d572b255ad96f1df58c6d6e6976dc74a
audit_log_SENTINFRA-LOG006_20250719T072655.317458Z	7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11aae3eece238ff	74bd86628f762c5de4a2ce1b783b78482de96bca
audit_log_SENTINFRA-LOG019_20250728T032727.445123Z	6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a	8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
audit_log_SENTINFRA-LOG003_20250719T072600.077907Z	3cebe32bff9e5062886300f42f4b09e0f33fa18c0556cbf355cdc12467e	987cf9cc669500dc1b179d86eaacd8c4178cbd3e
audit_log_SENTINFRA-LOG015_20250720T024034.238954Z	8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68	48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z	25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c	ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z	3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc	d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
audit_log_SENTINFRA-LOG002_20250719T072537.417349Z	7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f	f7055f4a29b6b0397d09bf991970134508f7f0a8
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z	35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5	1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG008_20250719T072735.155936Z	5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80	ecd2de218d958f359e2f9df0ccf132f502e462ba
audit_log_SENTINFRA-LOG012_20250720T013315.075405Z	7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67	9ab059c573469aa0961a3f32920705bb7d82f14
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z	bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04	99f102c3f2e654d3e45dc813bf296277170443f8
audit_log_SENTINFRA-LOG020_20250728T032738.625875Z	281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78	aa71bb1611fce96cdf60137f21b1b7649b5ade32
audit_log_SENTINFRA-LOG021_20250728T032800.504091Z	c34c893f48ba12cd7e329a0b8bf2af06f139d30892d6e534082f126affcfac3	2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
audit_log_SENTINFRA-SESS002_20250721T230909.696517Z	5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4	3da18c1a2c183ca24277b8d8047fd52b83a74ea3
audit_log_SENTINFRA-LOG017_20250728T032702.256334Z	b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74	f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z	cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d	9c29d3e2af96ce129cbf5e83e17a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z	96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074	14359d685e1c149212d9d289b8f91de307bc9698

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rosmontos@mac Sentinel3.1 public tools testing %

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audit_log_SENTRI-SESS002_20250728T034527.491779Z.json
audit_log_SENTRI-LOG005_20250719T072638.828774Z.json
audit_log_SENTRI-LOG006_20250719T072655.317458Z.json
audit_log_SENTRI-LOG014_20250720T021849.138963Z.json
audit_log_SENTRI-LOG022_20250728T032815.551840Z.json
audit_log_SENTRI-LOG019_20250728T032727.445123Z.json
audit_log_SENTRI-LOG009_20250719T072753.023026Z.json
audit_log_SENTRI-SESS002_20250725T033737.775435Z.json
audit_log_SENTRI-SESS002_20250725T033234.501790Z.json
audit_log_SENTRI-LOG003_20250719T072600.077907Z.json
audit_log_SENTRI-SESS002_20250725T001032.263976Z.json
audit_log_SENTRI-LOG013_20250720T020423.154072Z.json
audit_log_SENTRI-LOG018_20250728T032714.949792Z.json
audit_log_SENTRI-LOG020_20250728T032738.625875Z.json
audit_log_SENTRI-LOG017_20250728T032702.256334Z.json
audit_log_SENTRI-LOG001_20250719T072509.043944Z.json
audit_log_SENTRI-LOG010_20250719T072811.283310Z.json
audit_log_SENTRI-LOG021_20250728T032800.504091Z.json
audit_log_SENTRI-SESS005_20250728T040641.075372Z.json
audit_log_SENTRI-SESS002_20250721T033347.027668Z.json
audit_log_SENTRI-LOG008_20250719T072735.155936Z.json
audit_log_SENTRI-LOG012_20250720T013315.075405Z.json
audit_log_SENTRI-LOG023_20250728T035155.068927Z.json
audit_log_SENTRI-SESS002_20250721T230909.696517Z.json
audit_log_SENTRI-LOG011_20250719T072829.126010Z.json
audit_log_SENTRI-LOG015_20250720T024034.238954Z.json
audit_log_SENTRI-SESS001_20250721T030320.457090Z.json
audit_log_SENTRI-LOG007_20250719T072713.239358Z.json
audit_log_SENTRI-LOG016_20250728T032642.949640Z.json
audit_log_SENTRI-LOG004_20250719T072619.021572Z.json
audit_log_SENTRI-LOG002_20250719T072537.417349Z.json

Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv



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1 AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md • 2 c_9_zero_trust_protocol.md

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources.json

```

1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
68 rosmontos@mac Sentinel3.1_public_tools_testing % pythons extract_nasnes.py
69 Enter full path to directory containing `.hash` and `*.sha` files:
70 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA
71
72 ✓ Extracted Hash Summary:
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75 Filename SHA256 RIPEMD160
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77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cd82c2aef718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dab982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cf657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffcc0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddd ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11aae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc ac7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2af06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
108
109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
110 rosmontos@mac Sentinel3.1_public_tools_testing %
111 ```



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rosmontos@mac Sentinel3.1_public_tools_testing %



```


```

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1 AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md • 2 c\_9\_zero\_trust\_protocol.md

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```

1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources ` .json`
```

26  Extracted Hash Summary:

| Filename                                                 | SHA256                                                                                                                                      | RIPEMD160                                 |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json | 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5                                                                            | 1608433eafa81cdc8cdc5a5381e9c06e1740e87d  |
| audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json  | bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04                                                                              | 99f102c3f2e654d3e45dc813bf296277170443f8  |
| audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json  | 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff                                                                            | 74bd86628f762c5de4a2ce1b783b78482de96bca  |
| audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json  | cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d                                                                            | 9c29d3e2af96ce129cbf5e83e7a772be58ef8461  |
| audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json  | a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42                                                                            | fe97cdbb2c2aef718f5e5a98244d569f651fa833  |
| audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json  | 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a                                                                            | 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288  |
| audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json  | 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5acf                                                                             | d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc  |
| audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json | 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9                                                                            | ce6acb25c23ab250504145cfa657d292f639a24f  |
| audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json | f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0                                                                            | ea3a8f156273cf1ee696f8aee525c15b0910617c  |
| audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json  | 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e                                                                            | 987cf9cc669500dc1b179d86eaacd8c4178cbd3e  |
| audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json | e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b                                                                            | 232f98b38f50d7571cdc4786b3628a7fa413c4be  |
| audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json  | b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9dff                                                                             | ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c  |
| audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json  | 195cea7a1834831b859fbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc                                                                             | 5aa30f039b5083f08f0ea280e743831c355fd123  |
| audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json  | 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78                                                                            | aa71bb1611fce96cdf60137f21b1b7649b5ade32  |
| audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json  | b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74                                                                            | f5cb3b67020d9453c75ccf99b762062fa4af3368  |
| audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json  | f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842                                                                            | 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6  |
| audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json  | aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c669445bce2bae                                                                             | 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8  |
| audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json  | c34c893f48ba12cd7e329a0b8bf2af06f139d30892d6e534082f126affcfac3                                                                             | 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87  |
| audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json | 38fa755c2d5295a71ac709b87b7a9eb207ebc92daba982664343da0ce5c5cc490                                                                           | 0db672f7d44cb0c859c87cec81d1e9fd9329e37d  |
| audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json | 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1                                                                            | af16e0c1076add75f60c9efc1350fa16f794ff69  |
| audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json  | 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80                                                                            | ecd2de218d958f359e2f9df0ccf132f502e462ba  |
| audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json  | 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67                                                                            | 9ab059c573469aa0961a3f32920705bb72d82f14  |
| audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json  | 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c                                                                            | ca874197a16e9fa00931001f103be701e0d26fca  |
| audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json | 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4                                                                            | 3da18c1a2c183ca24277b8d8047fd52b83a74ea3  |
| audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json  | a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c                                                                            | b4c7dff3735665f5a2296cf971d0b31c1f225594  |
| audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json  | 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68                                                                            | 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8 |
| audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json | f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c                                                                            | e181b923d572b255ad96f1df58c6d6e6976dc74a  |
| audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json  | 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074                                                                            | 14359d685e1c149212d9d289b8f91de307bc9698  |
| audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json  | ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756                                                                            | e95b69719c349af90c94bab19e545ab132da1bb2  |
| audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json  | fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522                                                                           | 9d7a7f085c2cc756620592e3137fa11bb54fea83  |
| audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json  | 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f                                                                            | f7055f4a29b6b0397d09bf991970134508f7f0a8  |
| 61                                                       |                                                                                                                                             |                                           |
| 62                                                       | Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv |                                           |
| 63                                                       |                                                                                                                                             |                                           |
| 64                                                       |                                                                                                                                             |                                           |
| 65                                                       | ---                                                                                                                                         |                                           |
| 66                                                       |                                                                                                                                             |                                           |
| 67                                                       | ## Live Extraction of Original Hashes SENTINFRA                                                                                             |                                           |
| 68                                                       | ````                                                                                                                                        |                                           |
| 69                                                       | rosmontos@mac: Sentinel3.1_public_tools_testing % python3 extract_hashes.py                                                                 |                                           |

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1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
68 ``
69 rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
70 Enter full path to directory containing `.hash` and `*.2ha` files:
71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA
72
73 ✓ Extracted Hash Summary:
74
75 Filename SHA256 RIPEMD160
76
77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdbb2c2aef718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffcc0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e46ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddd ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bfff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2afb0f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/hash_audit_report.csv
110 rosmontos@mac Sentinel3.1_public_tools_testing %
111 ```



```

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```

1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources `json`
24 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies
25
26 Extracted Hash Summary:
27
28 Filename SHA256 RIPEMD160
29
30 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
31 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
32 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
33 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
34 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cd8b2c2aef718f5e5a98244d569f651fa833
35 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aa6288
36 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc 7d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
37 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
38 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
39 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
40 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
41 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9dff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
42 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json 195cea7a1834831b859fbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
43 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
44 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
45 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
46 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c669445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
47 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json c34c893f48ba12cd7e329a0b8bf2afb0f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
48 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json 38fa755c2d5295a71ac709b87b7a9eb207ebc92daba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
49 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
50 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
51 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
52 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
53 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
54 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
55 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
56 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
57 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
58 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
59 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
60 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a2
61
62 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv
63
64
65
66
67 ## Live Extraction of Original Hashes SENTINFRA
```

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1 AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md • 2 c\_9\_zero\_trust\_protocol.md

```

Users > rosmontos > Desktop > AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen_sources.json
1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
69 rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
70 Enter full path to directory containing `.hash` and `*.2ha` files:
71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA
72
73 ✓ Extracted Hash Summary:
74
75 Filename SHA256 RIPEMD160
76
77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cd8b2c2aef718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffcc0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8ae525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2afb0f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aaf5ed92b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

109 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/hash_audit_report.csv
110 rosmontos@mac Sentinel3.1_public_tools_testing %
111 ```



```

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◀ AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md • ▶ c\_9\_zero\_trust\_protocol.md

Users > rosmontos > Desktop > ▶ AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md > abc # AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md > abc ## Live Rehashing and Extraction of SENTINFRA /frozen\_sources .json

```
1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources ` .json`
20 ✓ Extracted hash summary:
27
28 Filename SHA256 RIPEMD160
29
30 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
31 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json bd18c93b06335a05d4fb0a7c21714f5fdb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
32 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
33 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
34 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cd8bb2c2aef718f5e5a98244d569f651fa833
35 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
36 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
37 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
38 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
39 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
40 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
41 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
42 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
43 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
44 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
45 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
46 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
47 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
48 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
49 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
50 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
51 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
52 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fc
53 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
54 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
55 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
56 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
57 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
58 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
59 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
60 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
61
62 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv
63
64
65 ---
66
67 ## Live Extraction of Original Hashes SENTINFRA
68
69 rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
```

een Reader Optimized Ln 46

Col 167 (105 selected) Spaces: 4 UTF-8

AT&T KNOWHOW



1 # AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md  
 67 ## Live Extraction of Original Hashes SENTINFRA  
 70 Enter full path to directory containing '.hash' and '.sha' files:  
 71 >>> /Users/rosmontos/Desktop/Sentinel3.1\_public\_tools\_testing/\_hashes/SENTINFRA  
 72  
 73  Extracted Hash Summary:  
 74  
 75 Filename SHA256 RIPEMD160  
 76  
 77 audit\_log\_SENTINFRA-SESS002\_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69  
 78 audit\_log\_SENTINFRA-LOG011\_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594  
 79 audit\_log\_SENTINFRA-LOG018\_20250728T032714.949792Z 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123  
 80 audit\_log\_SENTINFRA-LOG022\_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cd82c2aef718f5e5a98244d569f651fa833  
 81 audit\_log\_SENTINFRA-SESS005\_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d  
 82 audit\_log\_SENTINFRA-SESS002\_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f  
 83 audit\_log\_SENTINFRA-SESS002\_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be  
 84 audit\_log\_SENTINFRA-LOG010\_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c6694445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8  
 85 audit\_log\_SENTINFRA-LOG004\_20250719T072619.021572Z fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccfd0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83  
 86 audit\_log\_SENTINFRA-LOG001\_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6  
 87 audit\_log\_SENTINFRA-SESS002\_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aeee525c15b0910617c  
 88 audit\_log\_SENTINFRA-LOG016\_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2  
 89 audit\_log\_SENTINFRA-LOG013\_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5ada47b6b3d82b6ea9ddd ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c  
 90 audit\_log\_SENTINFRA-SESS001\_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a  
 91 audit\_log\_SENTINFRA-LOG006\_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca  
 92 audit\_log\_SENTINFRA-LOG019\_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288  
 93 audit\_log\_SENTINFRA-LOG003\_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e  
 94 audit\_log\_SENTINFRA-LOG015\_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aeaa9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8  
 95 audit\_log\_SENTINFRA-LOG023\_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca  
 96 audit\_log\_SENTINFRA-LOG009\_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc  
 97 audit\_log\_SENTINFRA-LOG002\_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8  
 98 audit\_log\_SENTINFRA-SESS002\_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d  
 99 audit\_log\_SENTINFRA-LOG008\_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba  
 100 audit\_log\_SENTINFRA-LOG012\_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14  
 101 audit\_log\_SENTINFRA-LOG005\_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8  
 102 audit\_log\_SENTINFRA-LOG020\_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32  
 103 audit\_log\_SENTINFRA-LOG021\_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87  
 104 audit\_log\_SENTINFRA-SESS002\_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3  
 105 audit\_log\_SENTINFRA-LOG017\_20250728T032702.256334Z b106b8ec7202b213f3324aaaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368  
 106 audit\_log\_SENTINFRA-LOG014\_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461  
 107 audit\_log\_SENTINFRA-LOG007\_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698  
 108  
 109  Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1\_public\_tools\_testing/\_hashes/SENTINFRA/hash\_audit\_report.csv  
 110 rosmontos@mac Sentinel3.1\_public\_tools\_testing %  
 111 ``

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Users > rosmontos > Desktop > AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md > # AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md > ## Live Rehashing and Extraction of SENTINFRA /frozen\_sources .json

```

1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
18 ## Live Rehashing and Extraction of SENTINFRA /frozen_sources ` .json`
19
20 Last login: Sun Aug 3 08:44:00 on ttys001
21 rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
22 rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
23 Enter full path to directory containing ` .hash` and ` .2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies
24
25
26 ✓ Extracted Hash Summary:
27
28 Filename SHA256 RIPEMD160
29
30 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
31 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
32 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z.json 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
33 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z.json cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
34 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z.json a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cd82c2aef718f5e5a98244d569f651fa833
35 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z.json 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
36 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z.json 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adc 7d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
37 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z.json 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
38 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z.json f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
39 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z.json 3cebe32bff9e5062886300f42f4b09e0f3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
40 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z.json e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
41 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z.json b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9dff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
42 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z.json 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
43 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z.json 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
44 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z.json b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
45 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z.json f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
46 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z.json aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c669445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
47 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z.json c34c893f48ba12cd7e329a0b8bf2af06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
48 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z.json 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
49 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z.json 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
50 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z.json 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
51 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z.json 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
52 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z.json 25b2998d5670002ef237ab84e4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
53 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z.json 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
54 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z.json a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
55 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z.json 8df7e6b07b4015f5e331259cd4aea9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
56 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z.json f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
57 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z.json 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
58 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z.json ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
59 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z.json fe27bc08ec39e1cfccf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
60 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z.json 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
61
62 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies/hash_audit_report.csv

```

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File: AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md

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Users > rosmontos > Desktop > 🔖 AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md > 📁 # AUDIT\_REPRODUCIBILITY\_SHA256\_RIPEMD160\_LIVE\_AUGUST03\_2025.md > 📁 ## Live Rehashing and Extraction of SENTINFRA /frozen\_sources.json

```
1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
67 ## Live Extraction of Original Hashes SENTINFRA
70 └─ Enter full path to directory containing .hash and .2ha files:
71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/ hashes/SENTINFRA
72
73 ✓ Extracted Hash Summary:
74
75 Filename SHA256 RIPEMD160
76 -----
77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdbb2c2aef718f5e5a98244d569f651fa833
81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c669445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1cf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aea9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf296277170443f8
102 audit_log_SENTINFRA-LOG020_20250728T032738.625875Z 281892f60f240e05d17c7cf3b6628b6ee9ded640f1fa210eb4fe3245dec21e78 aa71bb1611fce96cdf60137f21b1b7649b5ade32
103 audit_log_SENTINFRA-LOG021_20250728T032800.504091Z c34c893f48ba12cd7e329a0b8bf2afb06f139d30892d6e534082f126affcfac3 2ef1d0d0c7cbc0ba88b4087ec4740286f8fe4d87
104 audit_log_SENTINFRA-SESS002_20250721T230909.696517Z 5f0e0dfcb307df334feab7e00804360751ae5354cd5b64fe26f4cdf3337ef1e4 3da18c1a2c183ca24277b8d8047fd52b83a74ea3
105 audit_log_SENTINFRA-LOG017_20250728T032702.256334Z b106b8ec7202b213f3324aa5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
106 audit_log_SENTINFRA-LOG014_20250720T021849.138963Z cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
107 audit_log_SENTINFRA-LOG007_20250719T072713.239358Z 96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698
108
109 └─ Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/ hashes/SENTINFRA/hash_audit_report.csv
110 rosmontos@mac Sentinel3.1_public_tools_testing %
111 ```

- 1 # AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
- 67 ## Live Extraction of Original Hashes SENTINFRA
- 70 └─ Enter full path to directory containing .hash and .2ha files:
- 71 >>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/ hashes/SENTINFRA
- 72
- 73 ✓ Extracted Hash Summary:
- 74
- 75 Filename SHA256 RIPEMD160
- 76 -----
- 77 audit_log_SENTINFRA-SESS002_20250721T033347.027668Z 4d1b802b7813da12c07e6bb90b84082e1601217543c5e8ca3194745c26f855a1 af16e0c1076add75f60c9efc1350fa16f794ff69
- 78 audit_log_SENTINFRA-LOG011_20250719T072829.126010Z a63fd45a49625edf2f4038b9f6e6ed1114a25ccbf9ba6c6b1aca33f8a343ee7c b4c7dff3735665f5a2296cf971d0b31c1f225594
- 79 audit_log_SENTINFRA-LOG018_20250728T032714.949792Z 195cea7a1834831b859fbbe891d59c9b5e94e6144dd5c260e8ac54cf602d45cc 5aa30f039b5083f08f0ea280e743831c355fd123
- 80 audit_log_SENTINFRA-LOG022_20250728T032815.551840Z a9c200d700c613149c6a7e99690a9287d869dc547f73d17fef7910be27e1ae42 fe97cdbb2c2aef718f5e5a98244d569f651fa833
- 81 audit_log_SENTINFRA-SESS005_20250728T040641.075372Z 38fa755c2d5295a71ac709b87b7a9eb207ebc92dba982664343da0ce5c5cc490 0db672f7d44cb0c859c87cec81d1e9fd9329e37d
- 82 audit_log_SENTINFRA-SESS002_20250725T033737.775435Z 9ac07d545c8ab5603553fdb7783fc65ff70c19295b76e27cb04929838a635ae9 ce6acb25c23ab250504145cfa657d292f639a24f
- 83 audit_log_SENTINFRA-SESS002_20250725T001032.263976Z e4e56dc8e083167691f6abeb8a2a7b781fea7557a282162a88f84d4d1d169b3b 232f98b38f50d7571cdc4786b3628a7fa413c4be
- 84 audit_log_SENTINFRA-LOG010_20250719T072811.283310Z aa102fa0fbcd3abe9b9b208407554188af822c0deaa3698e4c669445bce2bae 31fc60a38346464f27f32af3e1c9b55b2c0d8bf8
- 85 audit_log_SENTINFRA-LOG004_20250719T072619.021572Z fe27bc08ec39e1cf410650fcf57c216480954d8334ffccf0d33764ee227522 9d7a7f085c2cc756620592e3137fa11bb54fea83
- 86 audit_log_SENTINFRA-LOG001_20250719T072509.043944Z f69905003d1fec395cae59947a9337e4e6ad0b4be5f121eb5faaa91574cae842 74a9716ef7d0ce3ab685f9ebf981bb12e5def2f6
- 87 audit_log_SENTINFRA-SESS002_20250725T033234.501790Z f1aad6c24b361afdb540ab8827a703ba8746e1c57b9652da0dc77433649a6ac0 ea3a8f156273cf1ee696f8aee525c15b0910617c
- 88 audit_log_SENTINFRA-LOG016_20250728T032642.949640Z ad7580334d2728f6707f87b26ad524560b10a088e38ec7be49ccb910b6ece756 e95b69719c349af90c94bab19e545ab132da1bb2
- 89 audit_log_SENTINFRA-LOG013_20250720T020423.154072Z b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff ac17a1cf3b4356acc7c61dab91ea03b1f8466a3c
- 90 audit_log_SENTINFRA-SESS001_20250721T030320.457090Z f82bf2515af3ae5d294bb38e3dfc765d2230b10e5548f77ee8dc1864b88ad30c e181b923d572b255ad96f1df58c6d6e6976dc74a
- 91 audit_log_SENTINFRA-LOG006_20250719T072655.317458Z 7d7ae96f656488eef806a1de5a955e2c2a8c74283357c370e11ae43eece238ff 74bd86628f762c5de4a2ce1b783b78482de96bca
- 92 audit_log_SENTINFRA-LOG019_20250728T032727.445123Z 6e99740f6c871f0fc3c2cd4c260fb3c35e2d9cd7a9289a57779f9a926edabf5a 8fa328c85f5f9aa30ce3ebf6690e01351aaa6288
- 93 audit_log_SENTINFRA-LOG003_20250719T072600.077907Z 3cebe32bff9e5062886300f42f4b09e3ab9e0f33fa18c0556cbf355cdc12467e 987cf9cc669500dc1b179d86eaacd8c4178cbd3e
- 94 audit_log_SENTINFRA-LOG015_20250720T024034.238954Z 8df7e6b07b4015f5e331259cd4aea9f33cdf2866cdf545e5ac0ae0f6fc70c68 48eaf1c98d7d7a2bfff6efacf74f05c8fafde33c8
- 95 audit_log_SENTINFRA-LOG023_20250728T035155.068927Z 25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
- 96 audit_log_SENTINFRA-LOG009_20250719T072753.023026Z 3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf d7b7bf96cc7e02876853c2d3dd81f83c95d4b1cc
- 97 audit_log_SENTINFRA-LOG002_20250719T072537.417349Z 7f9936f9ff4ac3099c3e07d43fa485278fb842971a0eda50e4f1690c5c56283f f7055f4a29b6b0397d09bf991970134508f7f0a8
- 98 audit_log_SENTINFRA-SESS002_20250728T034527.491779Z 35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
- 99 audit_log_SENTINFRA-LOG008_20250719T072735.155936Z 5e25cf14d3d9e4eff5dc1d23e1486ba1d9a08fe00b6b2ef70020d718d2c04c80 ecd2de218d958f359e2f9df0ccf132f502e462ba
- 100 audit_log_SENTINFRA-LOG012_20250720T013315.075405Z 7a8054ed0bb14463d55dc3290032406410f8ae3a9b1d6384c2d4f88de862ce67 9ab059c573469aa0961a3f32920705bb72d82f14
- 101 audit_log_SENTINFRA-LOG005_20250719T072638.828774Z bd18c93b06335a05d4fb0a7c21714f5fb1f33057a2c45607c28b038dac9

```

