AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
```

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ 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 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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z      25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z      3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z      cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z      96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

📄 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
rosmontos@mac Sentinel3.1_public_tools_testing %
```

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
Last login: Sun Aug  3 08:44:00 on ttys001
rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                SHA256                                                           RIPEMD160
--------------------------------------------------------------------------------------------------------------------------------------------------------------
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json     35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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
```

Live Extraction of Original Hashes SENTINFRA

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

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Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ Extracted Hash Summary:

Filename                                                SHA256                                                
```

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
Last login: Sun Aug  3 08:44:00 on ttys001
rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                SHA256                                                                   RIPEMD160
--------------------------------------------------------------------------------------------------------------------------------------------------------------
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json     35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 99f102c3f2e654d3e45dc813bf29627717044 3f8
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 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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
```

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ 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 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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z      25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z      3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z      cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z      96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

📄 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
rosmontos@mac Sentinel3.1_public_tools_testing %
```

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Anchoring Stack: .2ha + .ots + OP_RETURN (Bitcoin)

Access Model: Zero Custody, Zero Trust, Proof-Based Only

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
Last login: Sun Aug  3 08:44:00 on ttys001
rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                    SHA256                                                                                                  RIPEMD160
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json    35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json     bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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 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     b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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     b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
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     fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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
```

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ 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 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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z      25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z      3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z      cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z      96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

📄 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
rosmontos@mac Sentinel3.1_public_tools_testing %
```

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                SHA256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
RIPEMD160
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audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json     35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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
```

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA
```

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ 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 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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z      25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z      3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z      cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z      96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

📄 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
rosmontos@mac Sentinel3.1_public_tools_testing %
```

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                SHA256                                                                  RIPEMD160
--------------------------------------------------------------------------------------------------------------------------------------------------------------
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json     35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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
```

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
```

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ 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 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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z      25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z      3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z      cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z      96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

📄 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
rosmontos@mac Sentinel3.1_public_tools_testing %
```

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Sun 3 Aug 9:01 am

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

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                  SHA256                                                            RIPEMD160
------------------------------------------------------------------------------------------------------------------------------------------------------------------
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json  35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json   bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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 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   b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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   b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
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   fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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
```

Restricted Mode ⊗ 0 ⚠ 0 | Screen Reader Optimized | Ln 30, Col 167 (105 selected) | Spaces: 4 | UTF-8 | LF | {} Markdown

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Sun 3 Aug 9:01 am

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```
# AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md
## Live Extraction of Original Hashes SENTINFRA
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ 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 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          fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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          b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z          25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z          3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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          bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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          b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z          cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z          96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

📄 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
rosmontos@mac Sentinel3.1_public_tools_testing %
```

Restricted Mode ⊗ 0 ⚠ 0 | Screen Reader Optimized | Ln 30, Col 167 (105 selected) | Spaces: 4 | UTF-8 | LF | {} Markdown

T9

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Title: Live Reproducibility of SENTINFRA auditlogs\
Protocol: Sentinel Protocol v3.1\
Version: v3.1\
Commander: Dr. Fernando Telles\
System: AI-Human Synergy\
Classification: Runtime Audit Compliance + External Exposure Layer\
Status: ✅ Canonical | Live \
Date Executed: 2 August 2025\
Linked Modules: [C5.2, C5.3, C5.7, C8.3, C9.5, C9.6, C9.7]\
meta_id Route: `AI-HUMANSYN`, `METAEXT`, `METAVAL`\
Anchoring Stack: `.2ha` + `.ots` + OP_RETURN (Bitcoin)\
Access Model: Zero Custody, Zero Trust, Proof-Based Only

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
Last login: Sun Aug  3 08:44:00 on ttys001
rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                SHA256                                                           RIPEMD160
--------------------------------------------------------------------------------------------------------------------------------------------------------------
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json     35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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
```

Restricted Mode ⊗ 0 ⚠ 0 Screen Reader Optimized Ln 31, Col 167 (105 selected) Spaces: 4 UTF-8 LF {} Markdown
T9 Screenshot 2025-0....55.38 am

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

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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

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ 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 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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z      25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z      3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z      cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z      96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

📄 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
rosmontos@mac Sentinel3.1_public_tools_testing %
```

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AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

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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

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

rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                    SHA256                                                           RIPEMD160
--------------------------------------------------------------------------------------------------------------------------------------------------------------
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json    35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json     bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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 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     b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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     b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
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     fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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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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

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ 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 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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z      25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z      3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z      cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z      96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

📄 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
rosmontos@mac Sentinel3.1_public_tools_testing %
```

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Sun 3 Aug 9:02 am

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

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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

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
Last login: Sun Aug  3 08:44:00 on ttys001
rosmontos@mac ~ % cd "/Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing"
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                SHA256                                                           RIPEMD160
--------------------------------------------------------------------------------------------------------------------------------------------------------------
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json    35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json     bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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 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     b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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     b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
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     fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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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T9

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Live Extraction of Original Hashes SENTINFRA

```
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 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          fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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          b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z          25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z          3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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          bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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          b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z          cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z          96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

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

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Screenshot 2025-0....55.38 am
```

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Live Rehashing and Extraction of SENTINFRA /frozen_sources `.json`

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/SENTINFRA/dualhash_verification_copies

✅ Extracted Hash Summary:

Filename                                                SHA256                                                           RIPEMD160
--------------------------------------------------------------------------------------------------------------------------------------------------------------
audit_log_SENTINFRA-SESS002_20250728T034527.491779Z.json    35c82f242ab20b3c20c8d9dd48ba31d78061275d2465893da7a4ee25739fd5a5 1608433eafa81cdc8cdc5a5381e9c06e1740e87d
audit_log_SENTINFRA-LOG005_20250719T072638.828774Z.json     bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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 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     b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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     b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 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 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
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     fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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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Screenshot 2025-0....55.38 am

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Sun 3 Aug 9:02 am

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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

AUDIT_REPRODUCIBILITY_SHA256_RIPEMD160_LIVE_AUGUST03_2025.md

Live Extraction of Original Hashes SENTINFRA

```
rosmontos@mac Sentinel3.1_public_tools_testing % python3 extract_hashes.py
📂 Enter full path to directory containing `.hash` and `.2ha` files:
>>> /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA

✅ 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 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      fe27bc08ec39e1cfcf410650fcf57c216480954d8334ffccf0d33764ee227522 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      b0205a3bd0ae764fa6133f347c82a1cce187119dd5adaf47b6b3d82b6ea9ddff 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 48eaf1c98d7d7a2bff6efacf74f05c8fafde33c8
audit_log_SENTINFRA-LOG023_20250728T035155.068927Z      25b2998d5670002ef237ab84ed4593552e89ff3f3a357b84c8c3096145d5c92c ca874197a16e9fa00931001f103be701e0d26fca
audit_log_SENTINFRA-LOG009_20250719T072753.023026Z      3b778b0159baae1cb2d50ba10a3597d4fac49594d90660ef09ad61cc07f5adcf 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      bd18c93b06335a05d4bfb0a7c21714f5fbd1f33057a2c45607c28b038dac9c04 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      b106b8ec7202b213f3324aaf5ed922b585ecc10d960df6e9992daa68d52dea74 f5cb3b67020d9453c75ccf99b762062fa4af3368
audit_log_SENTINFRA-LOG014_20250720T021849.138963Z      cf6413bee1fc7cc6c8b35460620a09b3811924ed1f0dd20aa29b8a831580631d 9c29d3e2af96ce129cbf5e83e7a772be58ef8461
audit_log_SENTINFRA-LOG007_20250719T072713.239358Z      96d7266627fdadbe750a386daa82c238f9e5bacb3f93eda4f6da3f58d9dc3074 14359d685e1c149212d9d289b8f91de307bc9698

📄 Exported summary to: /Users/rosmontos/Desktop/Sentinel3.1_public_tools_testing/hashes/SENTINFRA/hash_audit_report.csv
rosmontos@mac Sentinel3.1_public_tools_testing %
```

Restricted Mode ⊗ 0 ⚠ 0 Screen Reader Optimized Ln 34, Col 167 (105 selected) Spaces: 4 UTF-8 LF {} Markdown