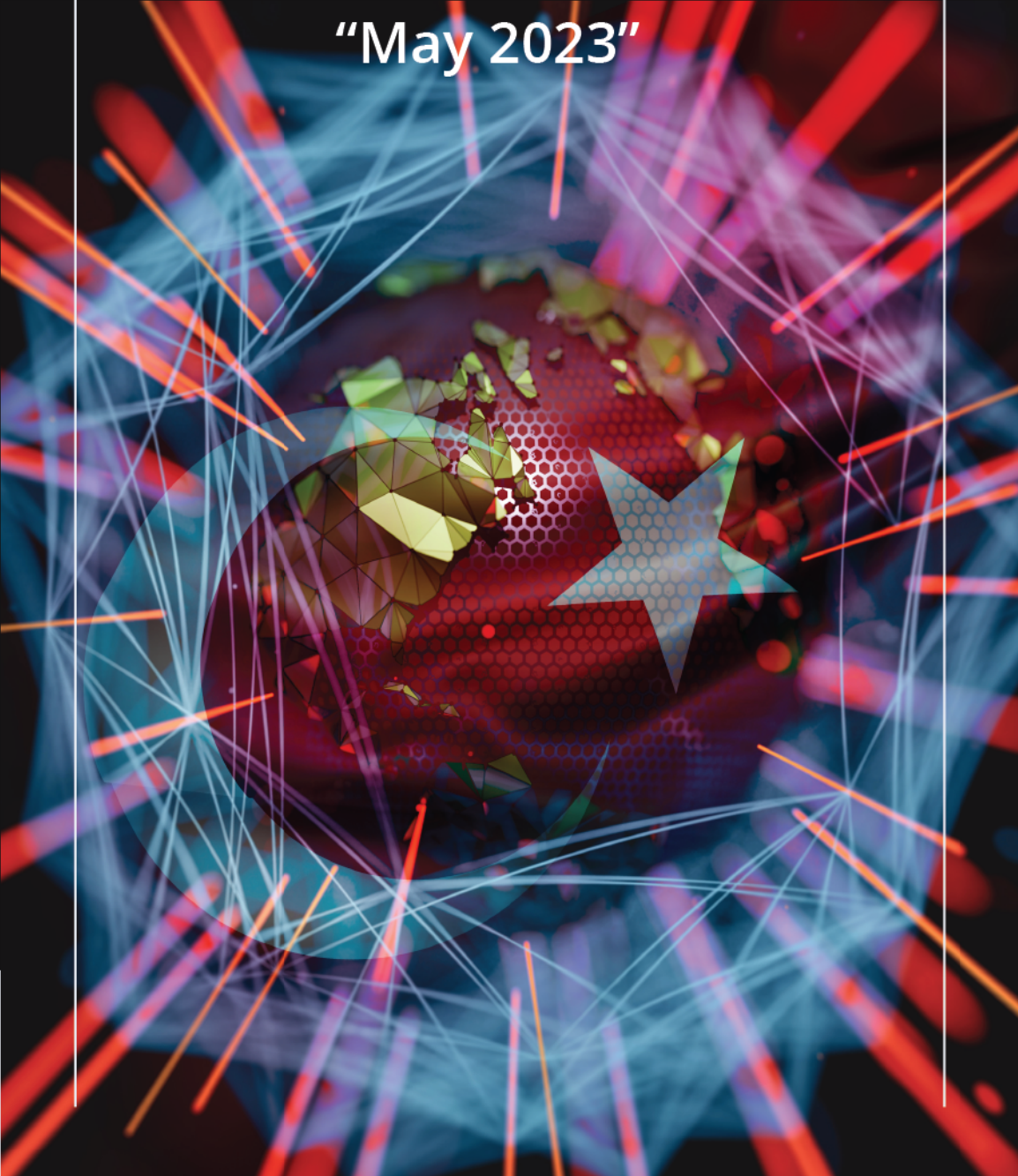


CYBER THREAT REPORT:

Analyzing Ransomware And Apt
Attacks Targeting Türkiye

"May 2023"



ThreatMon



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@MonThreat



@TMRansomMonitor



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Introduction

ThreatMon, as a leading Cyber Threat Intelligence (CTI) firm, presents its comprehensive report on the Ransomware and Advanced Persistent Threat (APT) groups targeting Türkiye in May. This report aims to provide valuable insights into the evolving threat landscape, highlighting the activities and tactics employed by these malicious entities. By analyzing the latest trends and emerging patterns, we aim to assist organizations in enhancing their cybersecurity posture and proactively defending against these threats.

Ransomware attacks have emerged as a significant cybersecurity concern worldwide, posing a serious threat to businesses, governments, and individuals. In recent months, Türkiye has witnessed an alarming increase in ransomware incidents, leading to substantial financial losses, operational disruptions, and compromised data security. Our report focuses on the notable ransomware groups that have targeted Turkish entities, shedding light on their attack vectors, preferred techniques, and potential motivations.

In addition to ransomware, Advanced Persistent Threat (APT) groups continue to pose formidable challenges to the security of critical infrastructure, government agencies, and various industries. These well-resourced and highly sophisticated adversaries employ advanced techniques to gain unauthorized access, maintain persistence, and exfiltrate sensitive information.

By consolidating both Ransomware groups and APT groups within a single report, ThreatMon aims to provide a holistic view of the threat landscape faced by Turkish organizations. This comprehensive approach enables security teams and decision-makers to gain a deeper understanding of the evolving tactics and potential convergences between these distinct threat vectors. By staying ahead of the adversaries, organizations can implement proactive measures, establish effective incident response plans, and fortify their defenses against these persistent threats.

As cyber threats continue to evolve in sophistication and scale, our report serves as a valuable resource to raise awareness, promote collaboration, and facilitate timely action. By equipping organizations with actionable insights, we endeavor to foster a safer digital ecosystem and empower defenders in their battle against malicious actors.

We hope this report proves to be a valuable asset in fortifying your cybersecurity posture and enabling you to effectively combat the evolving threat landscape.



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Information About Ransomware Groups That Attacked This Month

Medusa Ransomware Group

Medusa Ransomware group is known to have first appeared in 2021. This ransomware group usually encrypts the data of target systems and performs attacks to demand ransom from users. The main motivation of the group is money, as in similar ransomware groups.

It is not known exactly when the first attacks of Medusa Ransomware were carried out, but the first data of this ransomware group was observed by ThreatMon in 2021. Medusa Ransomware typically attempts to infiltrate target systems using email attachments, malicious links or vulnerabilities. Therefore, this ransomware group primarily uses phishing methods on its targets.

Medusa Ransomware usually carries out its attacks against many countries and various sectors around the world. In particular, sectors such as finance, health, energy, education and the public sector have been targeted. In addition to being a widely distributed malware, this ransomware group often uses cryptocurrencies to demand ransom from its targeted victims. These cryptocurrencies are often differentiated between specific attacks by the ransomware group and general-purpose attacks.



LockBit Ransomware Group

LockBit is a notorious ransomware group that has gained prominence in the cybersecurity landscape. Known for their sophisticated techniques and high-profile attacks, the LockBit Ransomware Group specializes in encrypting files on victims' computers and demanding a ransom payment in exchange for the decryption key. The group operates on a ransomware-as-a-service (RaaS) model, where they provide the malicious software to affiliates who carry out the actual attacks. This approach enables them to expand their reach and increase their illicit profits.

LockBit3.0 is the latest version of the LockBit ransomware. It was released in June 2022 and is more sophisticated than previous versions. LockBit3.0 uses a modular architecture, which allows it to be customized to target specific victims. It also includes a number of features that make it more difficult to detect and remove. LockBit3.0 employs a combination of phishing emails, exploit kits, and remote desktop protocol (RDP) brute-forcing to gain unauthorized access to target networks. Once inside, it quickly spreads across the network, encrypting files and rendering them inaccessible to the victim. The ransomware then leaves a ransom note demanding a significant sum of money in Bitcoin for the decryption key.

LockBit primarily targets organizations, especially those with valuable data and significant financial resources. The group has been known to focus on industries such as healthcare, finance, manufacturing, and critical infrastructure. Their attacks have the potential to cause severe disruptions, financial losses, and reputational damage to their victims.



8Base Ransomware Group

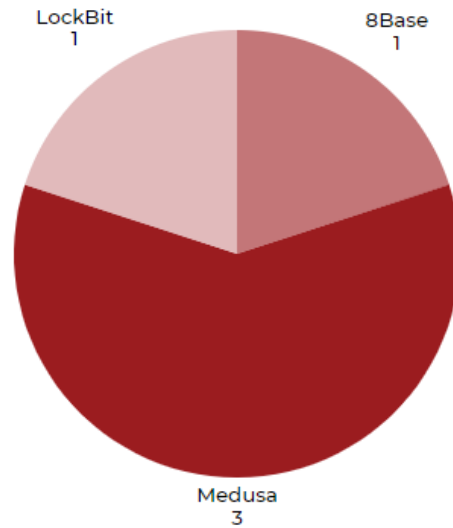
8Base is a ransomware-as-a-service (RaaS) group that has been active since April 2022. The group is known for its aggressive tactics, including double extortion, which involves stealing a victim's data in addition to encrypting it. 8Base has targeted a wide range of victims, including businesses, governments, and individuals.

The 8Base ransomware is distributed through a variety of methods, including phishing emails, drive-by downloads, and exploit kits. Once it is installed on a victim's computer, the 8Base ransomware will encrypt all of the files on the computer. The ransomware will then display a message demanding a ransom payment to decrypt the files.

The 8Base ransomware group typically demands ransom payments in Bitcoin. The amount of the ransom payment varies, but it is typically in the thousands of dollars. If the ransom payment is not paid, the 8Base ransomware group will typically threaten to release the victim's data to the public.



Information on Attacks Against Türkiye

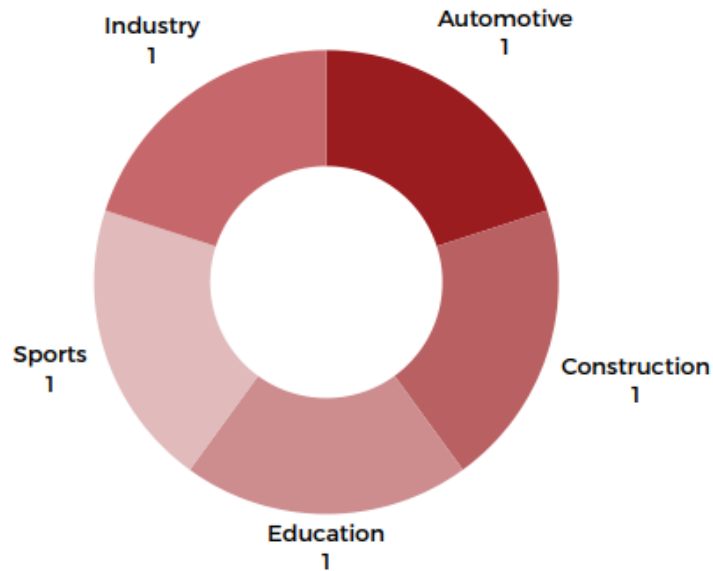


Number of Attacks on Türkiye by Ransomware Groups in March

Türkiye has faced an increasing threat from ransomware groups, with significant attacks carried out by LockBit and 8Base. Medusa, known for its sophisticated techniques, carried out three major attacks targeting various sectors in Türkiye. LockBit, another notorious group, also targeted the country with one major attack. Similarly, the newly emerged 8Base ransomware group also carried out one major attack on Türkiye.



ThreatMon



Sectoral Chart of Attacks by Ransomware Groups in Türkiye in May 2023

Türkiye experienced five significant ransomware attacks targeting various sectors in May. The attacks affected the automotive, construction, education, industry and sports sectors, underlining the wide range of sectors affected by cyber threats. These attacks disrupted operations, compromised sensitive data and caused financial losses in these sectors. These incidents underline the urgent need for advanced cyber security solutions to protect critical infrastructure and sensitive information in various sectors in Türkiye.



Information About APT Attacks Targeting Türkiye

The analysis of APT attacks targeting Türkiye in May continues from this part of the report. As ThreatMon, the content of the report has been prepared through carefully selected malware samples of 500 malware samples from threat actors targeting Türkiye in May.

Türkiye received many kinds of attacks from many different threat actors in May, among these attacks, sectors such as public institutions and organisations, automotive and education are among the most affected sectors.

So, before analysing the attacks, let's examine the threat actors that played a role in these attacks.

Group123

The APT Hacker Group, known as "Group123", has recently become a prominent actor in the cyber security world. The aim of this group is to seize the information systems of the targeted organisations with complex and sophisticated attack techniques and use them for various purposes.

Group123 uses a unique attack methodology. Firstly, they carry out a comprehensive intelligence gathering process to identify the weak points of the targeted organisations. In this process, they analyse the target's network infrastructure, use social engineering methods by targeting their employees and identify security vulnerabilities. Then, they attempt to infiltrate the target network using advanced malware tools and zero day attacks.

Group123's activities are often motivated by financial gain, espionage or cyber intelligence gathering. In particular, organisations in the financial sector are among the targets of this group due to their vulnerable infrastructure and sensitive data. At the same time, governments and large corporations are other potential targets of interest to Group123.



Turla

Turla is an APT group operating internationally. This group, which first emerged in 2004, is based in Russia and is believed to be state-sponsored. Turla carries out sophisticated and complex attacks against its targets for cyber espionage and information gathering purposes.

The most prominent feature of Turla is that, unlike other APT groups, it uses complex malware tools and advanced methods. The group's targets are usually strategically important organisations such as government agencies, diplomatic missions, military units, energy companies and communication infrastructures.

Turla's attacks are usually carried out through methods such as "watering hole" attacks, phishing, malicious emails and zero-day attacks. It also manages its attacks using complex command and control (C&C) infrastructure and acts in a way that is difficult to trace.

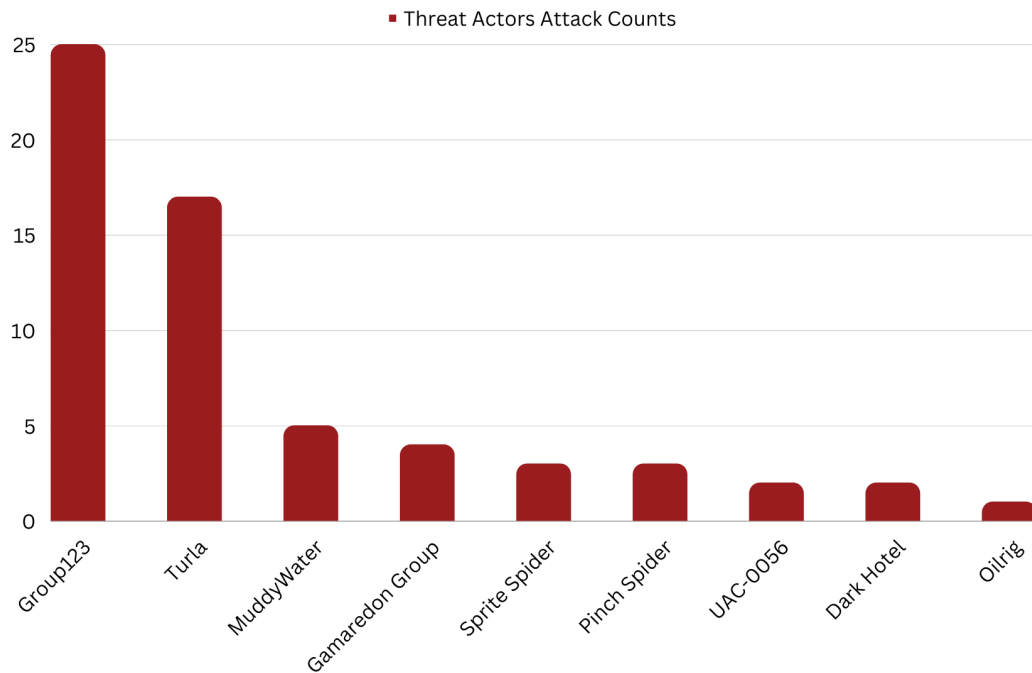
MuddyWater

MuddyWater is an emerging and evolving APT hacker group in recent years. This hacker group targets high-profile targets such as government agencies, diplomatic missions and the telecommunications sector, especially in the Middle East. MuddyWater's attacks are usually carried out in a complex and sophisticated manner and are usually aimed at espionage activities. The group's most prominent characteristic is its use of social engineering tactics, using fake documents and emails to mislead users and spread its malware.

MuddyWater infiltrates target networks using advanced network penetration techniques and then carries out long-term monitoring activities. It is not known exactly who the actors behind this hacker group are, but some security experts suggest that the group may be linked to a state or state-sponsored actor operating in the Middle East.

Analysis of Attacks

Threat Actor Based Analysis:



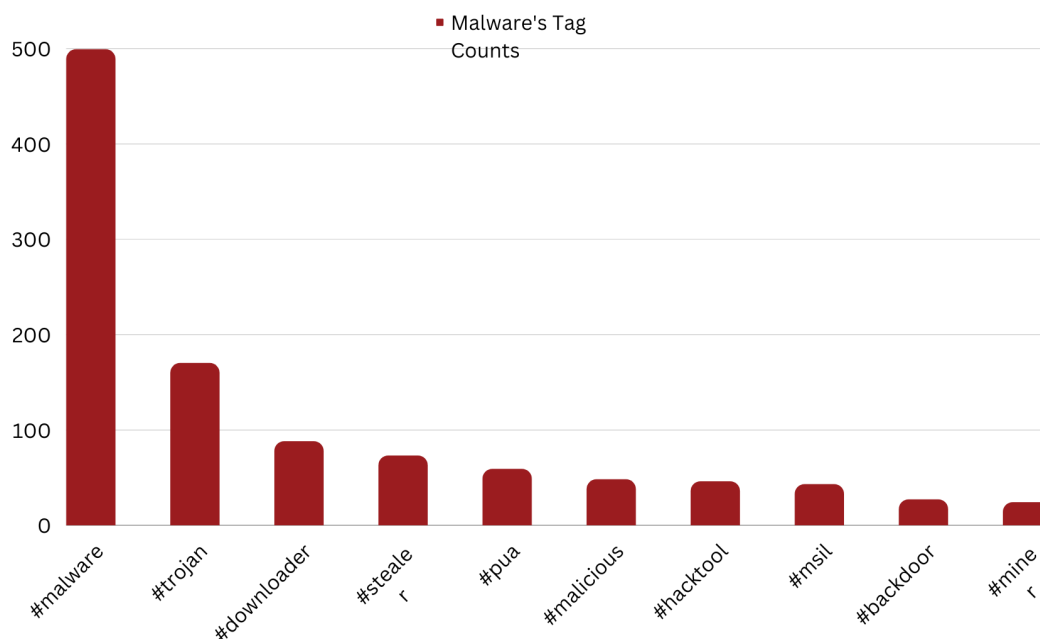
According to the studies conducted by ThreatMon on the malware detected by ThreatMon, the data obtained from the relevant threat actors among 500 malware are listed below:

- Group123: 25
- Turla: 17
- MuddyWater: 5
- Gamaredon Group: 4
- Sprite Spider: 3
- Pinch Spider: 3
- UAC-0055: 2
- DarkHotel: 2
- Oilrig: 1

When the data obtained here are analysed, it is determined that most attacks were made by Group123, also known as APT37, a North Korea-based threat actor.



Malware Tag Based Analysis:



The tags extracted to determine the characteristics of malware on the research conducted on 500 malware detected by ThreatMon are listed below.

- #malware: 499
- #trojan: 170
- #downloader: 88
- #stealer: 73
- #pua: 59
- #malicious: 48
- #hacktool: 46
- #msil: 43
- #backdoor: 27
- #miner: 24

The data listed here is provided to briefly describe the characteristics of the malware.

IOC's

In the study conducted by ThreatMon on these malware detected by ThreatMon, SHA-256 format file hashes obtained from malware files are listed below.

IOC Type	IOC
SHA-256	f526538899e5e402b8111d6ac1dd6bf10aab5c072ba52a49c736bca3cbcf8e72
SHA-256	a67d97cd3156cf87b2ab5597fda9e9801f733a4ce24ab88d00e00aa9d177bb7f
SHA-256	ae95c97c56edf028be46cd339bf169abd35e7602e33c5135ae5ff91540608187
SHA-256	1d9fcd9cc8c4806f059becffc70e6bfaf0a647bde2acd0c0dc8448bccc8bdaf0
SHA-256	201c0e189f659c17c8a97e7271a81ba6b88e84d56966d4eb7ccdd0444a8fa577
SHA-256	079d270901adda086ac23ed59e7be94a0fe446212536ae973d1accff311b839c
SHA-256	196da9104b097ef7ce4ac50046b5f444b90a0cc38b4dffcc9cf111afcf1f52e0
SHA-256	8e0989a73ba7d02eaa355ce595bd432111ead3aff5b8c9904960540eef9b8856
SHA-256	72eab75a1b9afae887c76f16b154d7c7d000f7c7e2e877972114865f829cd690
SHA-256	bc9e61760915f993ac88c0d8514063fe933141d7934044dc6877bb1c487825b5
SHA-256	abfdb171e96b6db36f6765f073b5b189adfd71de41f4d477f005cf468e99950
SHA-256	b89a83152a0ab7feee655f13784bd042916f2b456ddfd9c189e9d08c2caf49c6
SHA-256	d9a73298d4d4342c9cccedd670a82947032228a139168689ca173ff9534e0e3e
SHA-256	eab932a53d5a01c0b78c07943f24838c6ebca0d9451af59a0afd0530fcc4ee36
SHA-256	33dcb06de68e807c148cec866356425ecf53078d97e8f360e4b2bd7b54eaebeb
SHA-256	500dff1078e3c5a58ab6b265167f36ee51f3a50e07d38aa5b3dbae82c3ce31ad
SHA-256	25b864d594a05640a38aaf07c3f83cc8595cc428908347f08e0cb8880efffd3
SHA-256	55bed2eadb1e48b4b5dcb42de04dc4a1dc409ca508899adda44afd1a80650ba7
SHA-256	456ef9e7bc707734ab7d95afef7424e910bb9a3bd8b3867c489dcc1f62c45af6
SHA-256	083f7d27afc98495b0a932098410ac5d8c2042b8bafc7aec7d76ab0cd6d8de67



SHA-256	2013ee2965eb9d8fc11ddd5c2223fb0e279faa6d0c9f5641b9bb319981994a55
SHA-256	38c322adcca3bf0ef203243812d61c5595de03656d7c5e8b9fa5bfbe9bc3fbad
SHA-256	a9c6e9e79468257428385ab0d62dc77e950a0727d0ac61eca39b6f51d4915ada
SHA-256	11b26e1efd58d494059ec35bc315ceb91a8832e7d746c1d8c0b233b22dfbbaa2
SHA-256	961b5e9c3e83249b63995ddf371e693fd35089f8f87b44a2e69f5ff924cce95
SHA-256	c9b39e66aa1ed85018b365075009d11b21c8b1c19e0f76358d16905f8fa08b4b
SHA-256	8c9ab40d2cecd4083d6a25b96eb73894e35c280ae84d3ce05d949116fefcf96a
SHA-256	a60f6c5ed43ef3306da4063ba19d4811255bcb00b3afa1aba82b2431688f4bf5
SHA-256	4acc970432296981fd323e298aed903add79bbfa004a89d8d62909af4424e15b
SHA-256	525ff352bb9e0994c7398df9e212d36a55b8e8239383d0f17fe87c98893725e7
SHA-256	dbb210d6ef1b287e2ecae20dd062a3e529a79b973f98840a7c6af586e96f6688
SHA-256	b018d641b421c9c8af4e0b2fa7252d5b5832f2e07b06af322cf4a56fb0ee3080
SHA-256	b6c5eaf007696dba786dc4f5247b62cb038e61ce0cf55790182042076c3a7b6c
SHA-256	abb5f1dc250674111e25e58918712e5fe0637f5ea276e87da69efeac0b4bd46e
SHA-256	0113254eb7e022a8814f59a23079ebf9e6e1fd1dfe2d8042ea7d46babd80de9d
SHA-256	60399c07da502a2edaf3dc1b13b10bfc7f9cbf10d9dd72296e77dcdb836e1b39
SHA-256	f5656da1b652871d97db975799016d7212430268c17199e88f161d5619744017
SHA-256	ea81f4f7160d1340e539cf21f5602bc1823d46bf4df3a94132dd57b454e7ed40
SHA-256	0e49b7dd1d8d6ed6aa9b5cce05938fbbc2529d0752412427157f389a38d3e95c
SHA-256	d52a1c4b9a509b2d617bb886e00a5da89034460228642fbd8c11f8c203f43a3b
SHA-256	75bd29321df66d08f058c0097aec9460dec0d6d5c5f6825d3d5cce738d3c739f
SHA-256	97d936be4f494994f4afced2460300c784ecf477d2985b5f2b0026f471437cbe
SHA-256	90d19904e90cb4089a872344ebcee24920f380f20bb43b1f878f86c33a9f87de
SHA-256	1d0d1cbe2df12620dc37fc4fd3f249aeda80eb67d8358d524ba03900e933b546
SHA-256	11b26e1efd58d494059ec35bc315ceb91a8832e7d746c1d8c0b233b22dfbbaa2
SHA-256	961b5e9c3e83249b63995ddf371e693fd35089f8f87b44a2e69f5ff924cce95



SHA-256	c9b39e66aa1ed85018b365075009d11b21c8b1c19e0f76358d16905f8fa08b4b
SHA-256	8c9ab40d2cecd4083d6a25b96eb73894e35c280ae84d3ce05d949116fefcf96a
SHA-256	a60f6c5ed43ef3306da4063ba19d4811255bcb00b3afa1aba82b2431688f4bf5
SHA-256	4acc970432296981fd323e298aed903add79bbfa004a89d8d62909af4424e15b
SHA-256	525ff352bb9e0994c7398df9e212d36a55b8e8239383d0f17fe87c98893725e7
SHA-256	dbb210d6ef1b287e2ecae20dd062a3e529a79b973f98840a7c6af586e96f6688
SHA-256	b018d641b421c9c8af4e0b2fa7252d5b5832f2e07b06af322cf4a56fb0ee3080
SHA-256	b6c5eaf007696dba786dc4f5247b62cb038e61ce0cf55790182042076c3a7b6c
SHA-256	abb5f1dc250674111e25e58918712e5fe0637f5ea276e87da69efeac0b4bd46e
SHA-256	0113254eb7e022a8814f59a23079ebf9e6e1fd1dfe2d8042ea7d46babd80de9d
SHA-256	60399c07da502a2edaf3dc1b13b10bfc7f9cbf10d9dd72296e77dcdb836e1b39
SHA-256	f5656da1b652871d97db975799016d7212430268c17199e88f161d5619744017
SHA-256	ea81f4f7160d1340e539cf21f5602bc1823d46bf4df3a94132dd57b454e7ed40
SHA-256	0e49b7dd1d8d6ed6aa9b5cce05938fbbc2529d0752412427157f389a38d3e95c
SHA-256	d52a1c4b9a509b2d617bb886e00a5da89034460228642fbd8c11f8c203f43a3b
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SHA-256	90d19904e90cb4089a872344ebcee24920f380f20bb43b1f878f86c33a9f87de
SHA-256	1d0d1cbe2df12620dc37fc4fd3f249aeda80eb67d8358d524ba03900e933b546
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SHA-256	625e113389c62477b80942b90403a59258a97b5453a1eb801fe05bb515f5a16b
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SHA-256	f0d9d3cd8f7c3b7bb1f808ac18580de99b687bfac6ef874a42d62f2f5f4829eb
SHA-256	2cefeb4f1aca5857b69485f7c729d33f7bc1d57212c5431b7bfc4b2e3aa09372
SHA-256	0fb110fd88f176387fd5f3463e34c68af091da0c7b195067ef0c265ce8e4fb0c



SHA-256	d28aeaacb58899e20df78eaa81232df541a67c3de7ef0389f692a8c806452d55
SHA-256	fc625f625ba8645db8347fc22f651c233a0b4487326aba2392c7c2e04bb9ee54
SHA-256	54ac23398b8834db714df44666715e0513d627cc6cfc715de2ef7abe14ac7071
SHA-256	4302b37ec8cbe50e8bda3d99dd244435a2c1e93c7f887366fb3a4aac9fd94c06
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SHA-256	51fea123c44e2a66602133dba03184f818d67c54a3eb115d9b6a4e2ca2afe9fb
SHA-256	e49bf855d92f2ec825e34aa2507d8838c93c89c8894954825f44bad5250e6ed0
SHA-256	c046847b46fc22076d43f29113be670823ff35ea8fddcf4e842c273d264093ef
SHA-256	bebfa9f1d8bd827c2f30fd3835bf789b5957766bcc32c0e02bc11536fad09493
SHA-256	1aff4d19b239a951d0efa523382ba0ef702798ab48df0cc49fbe53a5bc20b01c
SHA-256	d66419bc3746f371a72cdd669f84f69f2030b51b49bdc8c32a511d0d18d0f0ef
SHA-256	48108f1454701730a16b01c315ab5254c77181152227fe30c95fbc9c530cdd02
SHA-256	8eccc9de9490c8001e5c9cc3cd110781431ba78bff0059cab638a3ddc95ac179
SHA-256	bbf604e492c2ed909949609a25ad95b75d0bc2359655b9229605ce7fe6286ce7
SHA-256	27d7d610b39c3d6794f5c616f352a23f0fe05a0c32848009691663a5817afb24
SHA-256	a34d48a573b1530f7ab242571a05d6188f093e8366dafc2dfce8d5794e84b7ae
SHA-256	eeee8ec280cf99ef241ae8b995ca9f0a2818abaf46c9c336af4cdef824a7d6a3
SHA-256	b9d5a1a100a1fe3ce268a1bf79748ac4e2d62327fec19c573ca48bac8fc7affb
SHA-256	6af74516fb7c0debed884b01e4620f5cc09082460f65a88fadebf3bb4d7925dd
SHA-256	a0121d0bfd49da0f2783324ae25892212df91acaa83acceecd42871668252647
SHA-256	0558dd026a36696928bb9a420345a70968dfa0c6058543a2f77382af919aecc4
SHA-256	efd7d5f8f6816c208128fe359fc0520d0173c0b3736486a68621fe7e85eb73af
SHA-256	deee8d4194b4e2bc0eeb397fc356b3b92f92f40baaff896a2cab7c3e2b97b409
SHA-256	be18e5f52d20790f9cc58992adce365e4df3522934bb639b144c97e0ee7f4b97
SHA-256	4fa9119e89f36c8deeda520b8b82c9f2fb499aa1c2d0b276a75f30626496b81f



SHA-256	4fa9119e89f36c8deeda520b8b82c9f2fb499aa1c2d0b276a75f30626496b81f
SHA-256	6e0d8872ea2aa8fe36e96cf671cb45362886a41950c23e42adf8ac2f07c4c4ab
SHA-256	4d741bad2a6e635e944a39fc95f1c3448747fc6e615c0c99776ef2801c2cf1ef
SHA-256	86d1cfe26a532656cd69ac37d5b818901065e078ba9ba5768719146b415f00e5
SHA-256	303d4f9f3d832ba546f81c1ff170814d6e1c2cbdefb0e3ec4725e77abedf6e3c
SHA-256	99d127e8cb19e01645111b50487c0d054c07ae12b565c0145cb7d2c626fb158d
SHA-256	8c9e124d98bdddd49dc91ea38bea04e3ff1d6abd724ac5180a985e35497511b3
SHA-256	fa4a29abae72c6ace72bfff8b2e94330d2a45791e0ca27ecce76d962a0096b721
SHA-256	496d5884d1024ffe98602c194d5ab763cf3698b164db6ba05c8bdd456930c5d5
SHA-256	70acfdb86002a1d934aecdbcd793f1fab64eaa481dafd99bef6f31e7caa96729
SHA-256	9fc76d1781de0dafd682f7a75250f58f96c2822e93bc38528f5982defcd8bdd9
SHA-256	0fffc28dce87a9b54b483887f3f7fed35afac63e5b50b539b1f8e27df8b1863db
SHA-256	bf81c2e7ea87e7c66486e14257476209ce567ba0fefbcbf7388b009a0fa365ea3
SHA-256	1902ba4831b51938dec57aeae2d34c6119f9a80e1792c2a1fcb47eb495b3fc40
SHA-256	58c3231b6fbbb098c0b11b1d65dec73d5818a9991e4375eb4315957ef8b2313b
SHA-256	5bb35c18d8c18cfaf23cb60657d3f546c1bf240c96afd1e69f84dde02368a0e4
SHA-256	dd0dcf880e0c573ed9f97829c647da90769a1c8ced879995888add30933d04e8
SHA-256	d5b3afdf9177e6c7cde55e7400d591f63abe8d1d872b5d3391b7bdb528f7b16c
SHA-256	e7e2e88c95f9bdd4f0221fb502cb503ffa6f5967ebecbfbb256fe417343699ef
SHA-256	759fb57724e0a94fcdde87930c245916eeab53a6544ba8f6ef76c36c7ff61820
SHA-256	62ca70fd276a2531a657b32de946ad0bb18ff23369cab733597be18eebfa6570
SHA-256	930c20d5c0b8e25ce392ef78fea83bf513373eae54fc63cc9c06b15f40c2fd6a
SHA-256	e27cad92133e192d2002d239ba2c32609b4b0119d4e15703e4460c14d6e5a02
SHA-256	49a9316a5b3b50ee2d12f4e1563b56f675ea0f927a8c7c09a076872e887c87dc
SHA-256	15b2292f00c8fffd28579752c1462b0abf4a09b6bce55d9490bba59374589cdda
SHA-256	4f65cb7ac6f82ea51163f2d856e42f9392f91f2a505ccd734d2a57b233b5bbae
SHA-256	bf576d0d9b19af63dc4b8a89e4c3cc89e17cbe12431f429ca13950cf796fa6f8



SHA-256	ce6c73600268ee7fa21fd710164950fd72e63d0156870aab39999e2cb1174d19
SHA-256	9cbc6584a73553e5ff663dafbf81a16062db03a43b9970ee96e4b1374779e52c
SHA-256	6391787902e53fee7a437e18ccede79f551a96d4b3e2421f058db976a5c69780
SHA-256	9355865b65efa95d8d4f454601e993c92422ea6c844f849d9737f1c19bfda2c0
SHA-256	85371b7041a4b746cc875586a4acd7cdf9dcd3de887d00b72a1a9285f0ead89e
SHA-256	21dbffffb1d99f97f6982f4ff42b6e8ab8accd6baca70c095bc7748900163cba3
SHA-256	7c43462839a2f07afadd5a34812cc0e9521eccd8a7824a45c74691a9a58935ef
SHA-256	2b524356828e07fa5d3d8e648ef194e50fffb0493aefee0983661f3ea3479e9fc
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SHA-256	3ac604f4e35adcba21959283a1bdfeac3b129cd3e16794438543cf33049f36d1
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SHA-256	4fd0b20bbe76cb89ff0123c32e963e2841c3fa0994b323543e3aec53a845ab98
SHA-256	fc520781ae388c6f8e34b81152471c09fde7c0b9aa680200563f1a25d05bc9a4
SHA-256	dedd1b4a8dfbf85f4fac0f4224fee75c9b99f8ff641aedeeeb3a4167de04a1fb
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SHA-256	a5bb62d1445963f132b0dd918f3c2145bb28e3629a52cc339e0f0595daaa9e18
SHA-256	30891de608fb16cb8b55932d81edbe440ba5730d383235601482a28ca6164749
SHA-256	f743c0b1cae28be3d3ea6d5bf0c1fb3b681e5a4458bd2b7b0665b489542e3083
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SHA-256	150e4775bb68bec9a240efa55e5413161ad93e3df8cb6d3e49492b3f3145eb73
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SHA-256	0c71881be8ce9b28c2ba4679e8494adadb73fa4d1dff381f4fd92d2fdfae4d6f
SHA-256	1b639fd3d1c5cfeb3f4361d814e9648b96ae394929c46b456fbcff58156f5b52
SHA-256	4c94731564572fb38d50187d3710bfd063408744973e6cb358e8638418bd9c9b
SHA-256	e7640540ab3130676c6f814485c2aa3492fb3dda0535cd939daed3fb420f1e37
SHA-256	147d25ff0ceea72c425db8f606a93cdd065bf858f06652c273437272b81383f2
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SHA-256	cabace715a70eaa12150261e96c859d5621bc064d709d7fe66509180dfb10f96
SHA-256	45818bcb00e473c0c0c227ccc720a1f0f1ce72ce74792ad82e86749c09813562
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SHA-256	1e40b94e3c24e3bb9369e7243d7552cec3c57917f5b612fea5e29942c9163156
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SHA-256	fd2dd76224de282c5e52a90d59b6ac681f455f2548ac54e7b93c1cb5f7b23ff1
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SHA-256	0418c061a9bec5a7fedb6b673c66e4e8d345049a8ab716d6e1b9108014d15c30
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SHA-256	dc7de41bc3477ea1f79b1f3d82abdfdd668ee57562aa7f5cb283a149b2b26e6d
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SHA-256	c83c6fb243bb76c47a3533bf362ba64beca9d3712b82058dd9b6e7bc64c5b169
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SHA-256	1b6bd2aae213e442fefce28959149eb7a7aa86153fc070c43f9ddcad659efb8b
SHA-256	ce506b2bdf6a6e138d90684fdb03e1c81743bae4e9ff84adb111e7cd6b8b4231
SHA-256	7e4688af63a654335b938c06a38ffd43b3258528937fb6d33c3e60123073d52a
SHA-256	c67cb073263d30b63c7d0d9d3d2a65018a7a9d20cc55cbce988f61d8e130cfa5
SHA-256	e2d2443ec693600b793322450c7b45c0d8ef776d676ac400a6e5f2604a5f6b55
SHA-256	5ec6917b761e5e4415ad259faf91157b60c1c20297074aa38e7536fa6a7507bc
SHA-256	9d1115a736a2218d63ff276d62569af6cd323505c46bb71aaaad8b32772e9249
SHA-256	bc92f3c8a72486e75d3f61b90812fc59435ec4a9d2177e43b87d2a42252a5f2a
SHA-256	98da38c607bc286d6611ffab1875fc9b13b029347284cbda0fd0ba7ddf055dd5
SHA-256	12543513d6cc1171496578e3345b1328f685a2cbdbca9ce11ef5b4e02fcd1070
SHA-256	4859c654ff2dfafa4ca4d28697f7324cc145f68ba300d35b1703762b2ca71306
SHA-256	b952a7d816176cda7e73df62c932c3a96499088ac2124370a2cc06a2c00881b7
SHA-256	39f961f5b49ef78a9cb32548c8941dda6202da28953ce7013f5d8d3b49a69f48
SHA-256	07dd531c1198ecf78a9d85e26db1f642de2c06d7234f46f97941afbd28bb742f
SHA-256	58053ffbbfbfd91863a1afb7c11a51258c14b3c172faaffdba54a322685e5d6
SHA-256	d5490af100592f7177f101364f618bb684c6d67e68d403969a3dff1f9f22ee27
SHA-256	9c51d797f86de8d5dd11f32cd08bc1334d0ae5448143f8ce0908daa2a068f38d
SHA-256	798858adc873992a220bc2ad997472603a66a29208b362ae5894296811213635
SHA-256	fd3164a03f40f36ebfc4fd626cb060a3c7629b1858aadbbba20b4b1be4b9fcb5d
SHA-256	5ec174716f6f8c0607908f851f813747728a682d1f791fd77b1faf07ab2a5b24



SHA-256	68180d86939382b2c7c85baa822d4084dfd15b00379f6b73f579895508d0d1a8
SHA-256	d03a9517cf81eca522f483a8229379002aab4f1067ccf491f7d6cfac62e223f7
SHA-256	daeecaac77c9d471b83a0fe53c7dde6c5528816083045f595cc80f3471b5a501
SHA-256	0b50aad9227e7710631506a0b952a40125f3aae353fa1d59134ef3b369ddc356
SHA-256	8ca43a2e5dd633bc21f3456f5b763f5d7d67ace5dfb5018bd57cb9081541ffa9
SHA-256	6f01dead504a57bbbd69ea29b2713d16e06c9f301a98b2a6df4bb7188aa8b765
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SHA-256	6b5ba262a2ebc25faf5be5d6b352e058321af034414bd02f6b1ff57bc886fd9e
SHA-256	0f0b7c44f20af0bc954c5d7feb591bcdda778196df3376234f0122961c2799df
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SHA-256	189f2913aa30f13ba77c981741a8fb12d3aeeee78cd2681b4a963fa6fcf6551f
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SHA-256	a71bb76044b10f5efc3d62549733bb5c4fc5aa43a7f6bf587dd4674ea9d7af0a
SHA-256	c7c8975f1651e1c963376c3fbf5967b79f50fb4956b38ef50b5afc3760f52aa4
SHA-256	f5a107e27f99c7939cb373a16955b876ca1e2e1c9e758dfaef676d6a06f75ea9
SHA-256	682f230c1d6a569685badcbf3c33677d2617eca9e8ef90a3c1a0512231a21d02
SHA-256	1ed29d92e772bad8ce245ecddf005d79cf4b3adf19234323594ac74580a6c709
SHA-256	fea67e0fc66ec285dbf6731b3857336c9ab340d5b32a05a58df82623fe9093d9
SHA-256	b84639a45aa23358df184c56ad3437428818b30270f9eaf9b5ca8e445daac6b1
SHA-256	83b08e3f27aedc722de697ce47cd20df18f03e02218fb352a2666040ef6341de
SHA-256	25945f933846bd5fdbaff0e01278de2e27047fb7de83561f16c96c42aeb6ad43
SHA-256	bdaf30e135b8e58fdee0e2f22638fc66523df1d02c817ff78ca5827c6b7d4965
SHA-256	134c71c9f65567f66abe4a54b63ef97b58ad9a9b564138fd9b4d75ad879c19be
SHA-256	36c7a350a96f057a50c62b592bca9e37c06db766c9a7ca333e362eee9763d1eb
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SHA-256	7af983ce8fbdb8cb9d770b2033bc37c3830589233a7505f0d90967721b56fd58
SHA-256	8ca739804d7a65010bfed8d1a3216f0500d765ad3d1bc8824bf29fe8280501a2



SHA-256	aa2e074d496cac95b3653fb48b619e42db96d83f13f7180992d410dd6f9b3362
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SHA-256	0ddba1aab4bc850df675822195ebcbaa11a971c07570ff957ef2d1e97cafb8e4
SHA-256	d476d83f824482d12cb90b78bbabf3d8c2cf92cbec409abd168d5c942acaf197
SHA-256	d729a4322848d8f5c98e30cd41f15d52d4dd388423153da7a26f8ced64728f10
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SHA-256	d9b8816dc05c98d38419c94b02dc18ebd9494d13088ca2e1bb757f987001c1fd
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SHA-256	c05b8de487f2518d37f2953a0ca42faf9d1c212d193677e106b9ba46914fd457
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SHA-256	4a310626ad347227719ae4859fd0d96903bef54801e45fc0caba04bf5b2f2922
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SHA-256	31bb84cb08ed2e8374029ee9094dfc232dfb9d2712116fc2ebae8a1eb8cf0a9a
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SHA-256	5d4be7da054b8a8c7109aabc1e21ac20154999d1c2e6af53cbd531591d3636fb
SHA-256	909b500f2eccdff396de2493e728b5f045cc5f2c0dac580c849920d62bdfa317
SHA-256	08db445b34bd37ca5d8f816f35d8976313ba89b8b0cbec561ce0d1418a8e99b3



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SHA-256	d89c3a2ba8454e238d5285409294240b4c3163250663bc8518ecb75f592b2226
SHA-256	df23a0ceb16a05d137ca49239c844e7f883d413bb361d7f33fac909951f6e11c
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SHA-256	99ecfda54daa294d75b8df1d697e916bb8b3a0f415efc6d75db141d87b7d15b7
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SHA-256	1679470bcb55a90270c4a18468cea165a9f21e116a7f3d603f701a073a459e0c
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SHA-256	55832ba41ee5aa1389ff02aff9c6a42bd0fe3bffa1a16a74bddf1e9701f2bcc16
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SHA-256	aac54adc3f27fe8c0ce75cf9a9452cc5007f3bed3d3fc84ebfba42fc5c73ad98
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SHA-256	c533150826bd6cd5b29cc1ec1b552091e976f7ec10044796f947bc262023d9bf
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SHA-256	bc5589866214e617b6b2c837f304660d6ee61d46dfaf99a56e79605ae7af277c
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SHA-256	39217dcc0bc8300ae8115e3d9bd8e2dfaa4a99b8484c64dc7a094eb1d2d201f3
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SHA-256	35a67d72150a695f7337af849746e64dae8245784852fd03908a7d918b05eaf7
SHA-256	2e4b741045b4b37e50fa55678d713e6a63b87df0f5dc912b90c1487a8e9fcc85
SHA-256	07ac51324c11dc933a4f70a3c0c41b17202be72d54026bc9ca84e807cd38331c
SHA-256	209fb7453e92e27f0ff6e8bd0589c369608cd38279f32ce275ddb484e46c1a0e
SHA-256	935322a7ec261072f5d4a8c83bde20c98896569e7c9691cec15bd62dfd0f3bbc
SHA-256	f6560a6df4a8ab71dc38a2342f31467b8db769a9b68f370e21475a3bd54e9724
SHA-256	8c4e60af9d293ee5753099efdfc1b22ffe5ba1e934c7fe3d9e5cd6aab566b6e7
SHA-256	ec865473d2e22c58fd652b61ab9003b1e1e07e51ad1ad0d6862ecab2193d7325
SHA-256	e691def70fb7dfd50634e19d97d306c1bb20875a6f1ea49969c8946bf9387135
SHA-256	e968737386c372787950724c6e83ded19869a549a4f906fafc21ced8e004ce8
SHA-256	087fcdaf55ec55faec74944bb6f0dfa012fe3a9f2f0fc32f70ca2080b372f13c
SHA-256	ead2f022b54f8b413c2e8bc7bdd56721d5768d954d6f6668150b087cd730c0fc
SHA-256	73bfb78faf1bed43622fa2456e1869b36fdcddb4819f098f4332e7c151deef87
SHA-256	ae99cad2dbcb3e0a038109ea97028fbb4a2054580387816ec568d40017893833
SHA-256	5e4600133854483efe55622638058c2eb70db2e69d0ffcd7966cea4fafaf056b
SHA-256	b01a533dddd6629dcdfbce0816e553d5db36a99a233db33719be0646476a7c0b
SHA-256	4803d962c4237ff0803c3e8d4d32caa6a5a14701008218604fe9c9694f2d9465
SHA-256	6d08d501ae06c08b9bc6b74f8469a496420e4ecb8656e7df089503916db16d
SHA-256	97d053aaecfd9482598967c4c0e1afba486923568750471ca8163229da416fac
SHA-256	32e3b1b765b96992790ff890e6035bd3e40b0ac5362e0f014e4159137dbba517
SHA-256	312c6ed6f6cfe49b68ac33a2d82a2f4ca329ffbc2c1a4fed9c9d4679c579866
SHA-256	7921b960d77c2e50fa88a7615c533b6e2b5a98309518524e5d52a74bca31999f
SHA-256	a3b35a71f583bcf074c0c395136fdcabcc9320da9087de01c8662ed89845053b
SHA-256	75d6ae6386fc7df5e94d840625d91abb5afb581f998a670d7040a26d2cb7a2b1
SHA-256	3d80ac32d585cf551105627cc495f4838904ecf7f28994c3b768a3d3a23e9b18
SHA-256	0b5b79893faa97f10737f52617ff8cdf0de0c0e064ae8303cd12eddf23ee2141
SHA-256	eaafd24a879b0e1458630666c4dbcc4f20c14a00b48525d05ef6055312085c10d



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SHA-256	a4b3739a41f76cf3e06e4aee4f233ee47f4e7c87c62ed27bcf5c81c4ee606aa8
SHA-256	a44b70a1cea5e16757730274e80a0f785bcd7ae0bde06374ccf8bf0cc5e721c6
SHA-256	93f9b475ef2e0dc91101814f485197f041e71cf836e505a29d57ae339638013e
SHA-256	77e2467db5a0e05a373577bd5a04c1f5ecd4282ded59a0d235f61fd915f2e58d
SHA-256	6c87a7f056d1d58c866403dcbacf41b7ff0d50d0d8b5730b124fb3bd37ba826a
SHA-256	1a1f6050023046163bdcf16fe83999554c72faed9ab68d586eb91713a60ed688
SHA-256	0a4138d9e5578d0a7dc250a5a6bf0bbb44466fa865345476b62c819557b46f05
SHA-256	2acdad8fb053ef81b80f76b6f7bb5e599ffe614de3374c7e01574483bb145534
SHA-256	79da1dae8057720670bcd81c3b4772407ca4fb20c78a567fe65539d24e994ba9
SHA-256	0ba54d7cbb11bc55914b2dec8df50d2585d337d52a5eb520e189567bae8f130e
SHA-256	a401b63f7c9b0b73fdcb9551bac18b69eaec4fe4ef167e85ff2c25bfeefedbbf
SHA-256	c20fce90bd978fa2b6a5dbbf64bf44d941f268a0e274a823f93b7366f6f18ab1

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