

ANDROID STATIC ANALYSIS REPORT



OpenKeychain (6.0.4)

File Name:	org.sufficientlysecure.keychain_60400.apk
Package Name:	org.sufficientlysecure.keychain
Scan Date:	Aug. 1, 2025, 1:16 a.m.
App Security Score:	52/100 (MEDIUM RISK)
Grade:	

FINDINGS SEVERITY

飛 HIGH	▲ MEDIUM	i INFO	✓ SECURE	◎ HOTSPOT
1	31	3	2	2

FILE INFORMATION

File Name: org.sufficientlysecure.keychain_60400.apk

Size: 11.49MB

MD5: dd188288b7f3e98ff932c2f93a9df323

SHA1: 3175a395956eef0c33586aa834591df54871d1b3

SHA256: f88374b9113aa9ddba865258bd989eb3ac2ca1577d92e59d6e84228e080674ce

i APP INFORMATION

App Name: OpenKeychain

 $\begin{picture}(100,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$

Main Activity: org.sufficientlysecure.keychain.ui.MainActivity

Target SDK: 34 Min SDK: 15 Max SDK:

Android Version Name: 6.0.4 **Android Version Code:** 60400

B APP COMPONENTS

Activities: 50 Services: 9 Receivers: 10 Providers: 4

Exported Activities: 9
Exported Services: 4
Exported Receivers: 3
Exported Providers: 2

***** CERTIFICATE INFORMATION

Binary is signed v1 signature: True v2 signature: True v3 signature: True v4 signature: False

X.509 Subject: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2013-09-11 03:41:03+00:00 Valid To: 2041-01-27 03:41:03+00:00

Issuer: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid

Serial Number: 0x30f6b2ae Hash Algorithm: sha256

md5: 4dfb8f6ce490117deca99d9976bb56e4

sha1: 15c13aab38e8d48bc759bbff7a3a3a3e425ab6aa

sha256: 2805a6f465acb923103a2ab3a145e1a97a74c44acf751250b588ebc3f88a0cc9

sha512: d1a9c2fb6a7398918971f94733a8b811709b72b3b893a1b9c2f1d223df5a1f3687e6aeaee997877d1c034d2e11a2f5b0f0da9d44dc888bff67f4265cefed7efd

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: b754c16e697bab33b1c080e50a8c6ac2856e083b8c384a856f3ea6f4933d9ad3

Found 1 unique certificates

⋮ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.READ_MEDIA_IMAGES	dangerous	allows reading image files from external storage.	Allows an application to read image files from external storage.
android.permission.READ_MEDIA_VIDEO	dangerous	allows reading video files from external storage.	Allows an application to read video files from external storage.
android.permission.READ_MEDIA_AUDIO	dangerous	allows reading audio files from external storage.	Allows an application to read audio files from external storage.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
android.permission.POST_NOTIFICATIONS	dangerous	allows an app to post notifications.	Allows an app to post notifications
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.ACCESS_WIFI_STATE	normal	view Wi-Fi status	Allows an application to view the information about the status of Wi-Fi.

PERMISSION S		INFO	DESCRIPTION
android.permission.NFC	normal	control Near-Field Communication	Allows an application to communicate with Near-Field Communication (NFC) tags, cards and readers.
android.permission.READ_SYNC_SETTINGS		read sync settings	Allows an application to read the sync settings, such as whether sync is enabled for Contacts.
android.permission.WRITE_SYNC_SETTINGS	normal	write sync settings	Allows an application to modify the sync settings, such as whether sync is enabled for Contacts.
android.permission.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.
android.permission.FOREGROUND_SERVICE_SPECIAL_USE	normal	enables special-use foreground services.	Allows a regular application to use Service.startForeground with the type "specialUse".
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.RECEIVE_BOOT_COMPLETED	normal	automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This can make it take longer to start the phone and allow the application to slow down the overall phone by always running.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.CAMERA	dangerous	take pictures and videos	Allows application to take pictures and videos with the camera. This allows the application to collect images that the camera is seeing at any time.
org.sufficientlysecure.keychain.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

M APKID ANALYSIS

FILE	DETAILS		
	FINDINGS	DETAILS	
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MANUFACTURER check possible Build.SERIAL check	
	Compiler	r8 without marker (suspicious)	



ACTIVITY	INTENT
org.sufficientlysecure.keychain.ui.DecryptActivity	Schemes: file://, content://, Hosts: *, Mime Types: application/pgp-message, application/octet-stream, application/pgp, text/pgp, text/plain, */*, text/*, message/*, image/*, audio/*, video/*, application/*, multipart/*, application/autocrypt-setup, Path Patterns: .*\\.asc, .********\
org.sufficientlysecure.keychain.ui.lmportKeysActivity	Schemes: file://, content://, https://, http://, openpgp4fpr://, OPENPGP4FPR://, OpenPGP4FPr://, OpenPGP4Fpr://, Hosts: *, Mime Types: application/pgp-keys, text/plain, */*, application/octet-stream, Path Patterns: .*\\.asc, .********\

ACTIVITY	INTENT
org.sufficientlysecure.keychain.ui.RedirectImportKeysActivity	Schemes: openpgp4fpr://, OPENPGP4FPR://, OpenPGP4FPR://, OpenPGP4Fpr://, OpenPGP4fpr://,

△ NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

CERTIFICATE ANALYSIS

HIGH: 0 | WARNING: 1 | INFO: 1

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate
Application vulnerable to Janus Vulnerability	warning	Application is signed with v1 signature scheme, making it vulnerable to Janus vulnerability on Android 5.0-8.0, if signed only with v1 signature scheme. Applications running on Android 5.0-7.0 signed with v1, and v2/v3 scheme is also vulnerable.

Q MANIFEST ANALYSIS

HIGH: 1 | WARNING: 22 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable unpatched Android version Android 4.0.3-4.0.4, [minSdk=15]	high	This application can be installed on an older version of android that has multiple unfixed vulnerabilities. These devices won't receive reasonable security updates from Google. Support an Android version => 10, API 29 to receive reasonable security updates.
2	Broadcast Receiver (org.sufficientlysecure.keychain.network.orbot.OrbotStatusReceiver) is not Protected. [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
3	Activity (org.sufficientlysecure.keychain.ui.keyview.ViewKeyActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
4	Activity (org.sufficientlysecure.keychain.ui.EncryptFilesActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
5	Activity (org.sufficientlysecure.keychain.ui.EncryptTextActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
6	Activity (org.sufficientlysecure.keychain.ui.DecryptActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
7	Activity (org.sufficientlysecure.keychain.ui.SettingsActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.

NO	ISSUE	SEVERITY	DESCRIPTION
8	Activity (org.sufficientlysecure.keychain.ui.lmportKeysProxyActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
9	Activity (org.sufficientlysecure.keychain.ui.lmportKeysActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
10	Activity (org.sufficientlysecure.keychain.ui.RedirectImportKeysActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
11	TaskAffinity is set for activity (org.sufficientlysecure.keychain.ui.SecurityTokenOperationActivity)	warning	If taskAffinity is set, then other application could read the Intents sent to Activities belonging to another task. Always use the default setting keeping the affinity as the package name in order to prevent sensitive information inside sent or received Intents from being read by another application.
12	TaskAffinity is set for activity (org.sufficientlysecure.keychain.ui.SecurityTokenChangePinOperationActivity)	warning	If taskAffinity is set, then other application could read the Intents sent to Activities belonging to another task. Always use the default setting keeping the affinity as the package name in order to prevent sensitive information inside sent or received Intents from being read by another application.
13	Activity (org.sufficientlysecure.keychain.ui.PanicResponderActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
14	Content Provider (org.sufficientlysecure.keychain.remote.KeychainExternalProvider) is not Protected. [android:exported=true]	warning	A Content Provider is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.

NO	ISSUE	SEVERITY	DESCRIPTION
15	TaskAffinity is set for activity (org.sufficientlysecure.keychain.remote.ui.RemoteSecurityTokenOperationActivity)	warning	If taskAffinity is set, then other application could read the Intents sent to Activities belonging to another task. Always use the default setting keeping the affinity as the package name in order to prevent sensitive information inside sent or received Intents from being read by another application.
16	TaskAffinity is set for activity (org.sufficientlysecure.keychain.ui.UsbEventReceiverActivity)	warning	If taskAffinity is set, then other application could read the Intents sent to Activities belonging to another task. Always use the default setting keeping the affinity as the package name in order to prevent sensitive information inside sent or received Intents from being read by another application.
17	Service (org.sufficientlysecure.keychain.remote.OpenPgpService) is not Protected. [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
18	Service (org.sufficientlysecure.keychain.remote.OpenPgpService2) is not Protected. [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
19	Service (org.sufficientlysecure.keychain.remote.SshAuthenticationService) is not Protected. [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
20	Content Provider (org.sufficientlysecure.keychain.provider.TemporaryFileProvider) is not Protected. [android:exported=true]	warning	A Content Provider is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.

NO	ISSUE	SEVERITY	DESCRIPTION
21	Service (androidx.work.impl.background.systemjob.SystemJobService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_JOB_SERVICE [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
22	Broadcast Receiver (androidx.work.impl.diagnostics.DiagnosticsReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
23	Broadcast Receiver (androidx.profileinstaller.ProfileInstallReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

</> CODE ANALYSIS

HIGH: 0 | WARNING: 7 | INFO: 3 | SECURE: 1 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	The App logs information. Sensitive information should never be logged.	info	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	com/beloo/widget/chipslayoutmanager/C hipsLayoutManager.java com/beloo/widget/chipslayoutmanager/u til/log/FillLogger.java com/journeyapps/barcodescanner/Camer aPreview.java com/journeyapps/barcodescanner/Captur eManager.java com/journeyapps/barcodescanner/Decod erThread.java com/journeyapps/barcodescanner/camer a/AutoFocusManager.java com/journeyapps/barcodescanner/camer a/Cameralnstance.java com/journeyapps/barcodescanner/camer a/CameraManager.java com/journeyapps/barcodescanner/camer a/CenterCropStrategy.java com/journeyapps/barcodescanner/camer a/FitCenterStrategy.java com/journeyapps/barcodescanner/camer a/PreviewScalingStrategy.java com/journeyapps/barcodescanner/camer a/PreviewScalingStrate

NO	ISSUE	SEVERITY	STANDARDS	eu/davidea/flexibleadapter/utils/Log.java eu/davidea/flexibleadapter/utils/Logger.ja
				va eu/davidea/viewholders/FlexibleViewHol der.java org/markdown4j/IncludePlugin.java org/sufficientlysecure/htmltextview/Html ResImageGetter.java org/sufficientlysecure/keychain/ui/Decryp tListFragment.java org/sufficientlysecure/keychain/util/Utf8 Util.java
2	This App copies data to clipboard. Sensitive data should not be copied to clipboard as other applications can access it.	info	OWASP MASVS: MSTG-STORAGE-10	org/sufficientlysecure/keychain/compatib ility/ClipboardReflection.java org/sufficientlysecure/keychain/ui/Displa yTextFragment.java org/sufficientlysecure/keychain/ui/Encryp tFilesFragment.java org/sufficientlysecure/keychain/ui/Encryp tTextFragment.java org/sufficientlysecure/keychain/ui/ViewK eyAdvShareFragment.java org/sufficientlysecure/keychain/ui/Share KeyHelper.java
3	The App uses an insecure Random Number Generator.	warning	CWE: CWE-330: Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6	org/sufficientlysecure/keychain/operation s/BenchmarkOperation.java org/sufficientlysecure/keychain/operation s/KeySyncOperation.java org/sufficientlysecure/keychain/util/Num eric9x4PassphraseUtil.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
4	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	com/mikepenz/fontawesome_typeface_li brary/FontAwesome.java com/mikepenz/google_material_typeface _library/GoogleMaterial.java org/sufficientlysecure/keychain/Constants .java org/sufficientlysecure/keychain/ssh/utils/ SshUtils.java
5	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	org/sufficientlysecure/keychain/network/ TlsCertificatePinning.java
6	SHA-1 is a weak hash known to have hash collisions.	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	org/sufficientlysecure/keychain/pgp/Secu rityProblem.java org/sufficientlysecure/keychain/util/PRNG Fixes.java org/sufficientlysecure/keychain/util/WebK eyDirectoryUtil.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
7	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CWE: CWE-312: Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	org/sufficientlysecure/keychain/BuildConf ig.java org/sufficientlysecure/keychain/Constants .java org/sufficientlysecure/keychain/daos/Loc alPublicKeyStorage.java org/sufficientlysecure/keychain/daos/Loc alSecretKeyStorage.java org/sufficientlysecure/keychain/keyimpor t/C\$AutoValue_ParcelableKeyRing.java org/sufficientlysecure/keychain/model/Au toValue_UnifiedKeyInfo.java org/sufficientlysecure/keychain/securityto ken/AutoValue_EcKeyFormat.java org/sufficientlysecure/keychain/service/C \$AutoValue_BackupKeyringParcel.java org/sufficientlysecure/keychain/service/C \$AutoValue_DeleteKeyringParcel.java org/sufficientlysecure/keychain/service/in put/C\$AutoValue_CryptoInputParcel.java org/sufficientlysecure/keychain/ui/Backu pActivity.java org/sufficientlysecure/keychain/ui/Backu pCodeFragment.java org/sufficientlysecure/keychain/ui/Delete KeyDialogActivity.java org/sufficientlysecure/keychain/ui/Import KeysActivity.java org/sufficientlysecure/keychain/ui/Import KeysActivity.java org/sufficientlysecure/keychain/ui/dialog/ AddSubkeyDialogFragment.java
8	App can read/write to External Storage. Any App can read data written to External Storage.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	org/sufficientlysecure/keychain/Constants .java org/sufficientlysecure/keychain/util/FileH elper.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
9	App creates temp file. Sensitive information should never be written into a temp file.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/journeyapps/barcodescanner/Captur eManager.java
10	App uses SQLite Database and execute raw SQL query. Untrusted user input in raw SQL queries can cause SQL Injection. Also sensitive information should be encrypted and written to the database.	warning	CWE: CWE-89: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	org/sufficientlysecure/keychain/provider/ TemporaryFileProvider.java
11	This App uses SQL Cipher. Ensure that secrets are not hardcoded in code.	info	OWASP MASVS: MSTG-CRYPTO-1	org/sufficientlysecure/keychain/Keychain Database.java

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES
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RULE ID	BEHAVIOUR	LABEL	FILES
00013	Read file and put it into a stream	file	org/sufficientlysecure/keychain/KeychainDatabase.java org/sufficientlysecure/keychain/daos/LocalPublicKeyStorage.java org/sufficientlysecure/keychain/daos/LocalSecretKeyStorage.java org/sufficientlysecure/keychain/ui/SettingsSmartPGPAuthoritiesActivity.java org/sufficientlysecure/keychain/util/PRNGFixes.java org/sufficientlysecure/keychain/util/ParcelableFileCache.java
00063	Implicit intent(view a web page, make a phone call, etc.)	control	org/sufficientlysecure/keychain/network/orbot/OrbotHelper.java org/sufficientlysecure/keychain/remote/ui/AppsListFragment.java org/sufficientlysecure/keychain/ui/ImportKeysProxyActivity.java org/sufficientlysecure/keychain/ui/dialog/AddEditSmartPGPAuthorityDialogFrag ment.java org/sufficientlysecure/keychain/ui/dialog/FidesmoInstallDialog.java org/sufficientlysecure/keychain/ui/dialog/FidesmoPgpInstallDialog.java org/sufficientlysecure/keychain/ui/dialog/FidesmoPgpInstallDialog.java
00051	Implicit intent(view a web page, make a phone call, etc.) via setData	control	org/sufficientlysecure/keychain/network/orbot/OrbotHelper.java org/sufficientlysecure/keychain/remote/ui/AppsListFragment.java org/sufficientlysecure/keychain/ui/dialog/AddEditSmartPGPAuthorityDialogFragment.java
00091	Retrieve data from broadcast	collection	org/sufficientlysecure/keychain/ui/EncryptTextActivity.java org/sufficientlysecure/keychain/ui/ImportKeysActivity.java org/sufficientlysecure/keychain/ui/PassphraseDialogActivity.java
00094	Connect to a URL and read data from it	command network	org/markdown4j/IncludePlugin.java
00028	Read file from assets directory	file	org/sufficientlysecure/keychain/network/TlsCertificatePinning.java

RULE ID	BEHAVIOUR	LABEL	FILES
00022	Open a file from given absolute path of the file	file	com/journeyapps/barcodescanner/CaptureManager.java org/sufficientlysecure/keychain/provider/TemporaryFileProvider.java org/sufficientlysecure/keychain/util/FileHelper.java
00052	Deletes media specified by a content URI(SMS, CALL_LOG, File, etc.)	sms	org/sufficientlysecure/keychain/provider/TemporaryFileProvider.java
00011	Query data from URI (SMS, CALLLOGS)	sms calllog collection	org/sufficientlysecure/keychain/provider/TemporaryFileProvider.java
00187	Query a URI and check the result	collection sms calllog calendar	org/sufficientlysecure/keychain/provider/TemporaryFileProvider.java org/sufficientlysecure/keychain/remote/OpenPgpServiceKeyldExtractor.java org/sufficientlysecure/keychain/util/FileHelper.java
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	org/sufficientlysecure/keychain/provider/TemporaryFileProvider.java org/sufficientlysecure/keychain/util/FileHelper.java
00183	Get current camera parameters and change the setting.	camera	com/journeyapps/barcodescanner/camera/CameraManager.java
00036	Get resource file from res/raw directory	reflection	org/sufficientlysecure/keychain/network/orbot/OrbotHelper.java

***: ::** ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	7/25	android.permission.READ_EXTERNAL_STORAGE, android.permission.INTERNET, android.permission.ACCESS_NETWORK_STATE, android.permission.ACCESS_WIFI_STATE, android.permission.WAKE_LOCK, android.permission.RECEIVE_BOOT_COMPLETED, android.permission.CAMERA
Other Common Permissions	1/44	android.permission.FOREGROUND_SERVICE

Malware Permissions:

Top permissions that are widely abused by known malware.

Other Common Permissions:

Permissions that are commonly abused by known malware.

• OFAC SANCTIONED COUNTRIES

This app may communicate with the following OFAC sanctioned list of countries.

DOMAIN	COLINITDY/DECION
DOMAIN	COUNTRY/REGION

Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION	
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DOMAIN	STATUS	GEOLOCATION
api.fidesmo.com	ok	IP: 80.65.13.19 Country: Spain Region: Madrid, Comunidad de City: Madrid Latitude: 40.416500 Longitude: -3.702560 View: Google Map
play.google.com	ok	IP: 142.251.30.102 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
mikepenz.com	ok	IP: 172.67.141.197 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
yuml.me	ok	IP: 198.27.83.55 Country: Canada Region: Quebec City: Beauharnois Latitude: 45.316780 Longitude: -73.865898 View: Google Map

DOMAIN	STATUS	GEOLOCATION
www.facebook.com	ok	IP: 163.70.151.35 Country: France Region: Ile-de-France City: Nanterre Latitude: 48.891979 Longitude: 2.206750 View: Google Map
design.google.com	ok	IP: 142.250.151.113 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
scripts.sil.org	ok	IP: 172.66.149.239 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
fontawesome.io	ok	IP: 44.207.158.14 Country: United States of America Region: Virginia City: Ashburn Latitude: 39.043720 Longitude: -77.487488 View: Google Map

DOMAIN	STATUS	GEOLOCATION
creativecommons.org	ok	IP: 104.20.6.134 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
github.com	ok	IP: 20.26.156.215 Country: United States of America Region: Washington City: Redmond Latitude: 47.682899 Longitude: -122.120903 View: Google Map
www.equalsignorecasehost	ok	No Geolocation information available.
www.websequencediagrams.com	ok	IP: 172.105.27.183 Country: Canada Region: Ontario City: Toronto Latitude: 43.700111 Longitude: -79.416298 View: Google Map
www.openkeychain.org	ok	IP: 63.176.8.218 Country: United States of America Region: Virginia City: Reston Latitude: 38.925961 Longitude: -77.397331 View: Google Map

DOMAIN	STATUS	GEOLOCATION
f-droid.org	ok	IP: 37.218.243.72 Country: Netherlands Region: Noord-Holland City: Amsterdam Latitude: 52.374031 Longitude: 4.889690 View: Google Map
www.schuermann.eu	ok	IP: 63.176.8.218 Country: United States of America Region: Virginia City: Reston Latitude: 38.925961 Longitude: -77.397331 View: Google Map
fontawesome.com	ok	IP: 104.18.22.52 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.google.com	ok	IP: 172.217.169.36 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

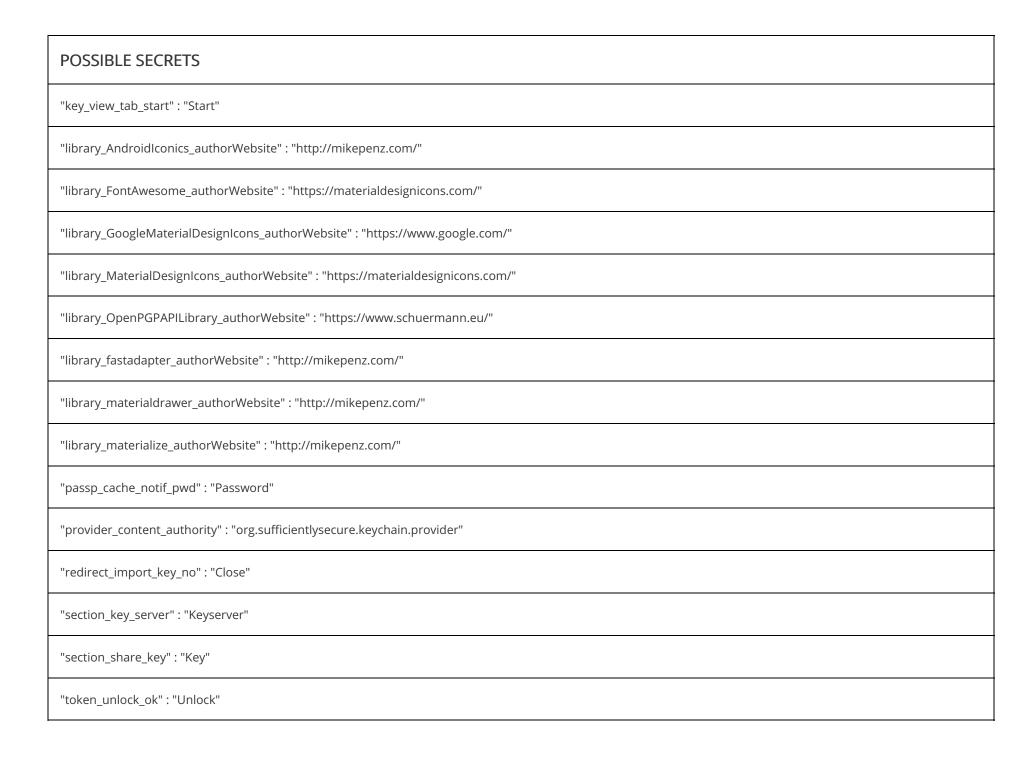
DOMAIN	STATUS	GEOLOCATION
materialdesignicons.com	ok	IP: 34.234.179.93 Country: United States of America Region: Virginia City: Ashburn Latitude: 39.043720 Longitude: -77.487488 View: Google Map
maps.google.com	ok	IP: 142.251.30.139 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
raw.githubusercontent.com	ok	IP: 185.199.108.133 Country: United States of America Region: Pennsylvania City: California Latitude: 40.065632 Longitude: -79.891708 View: Google Map

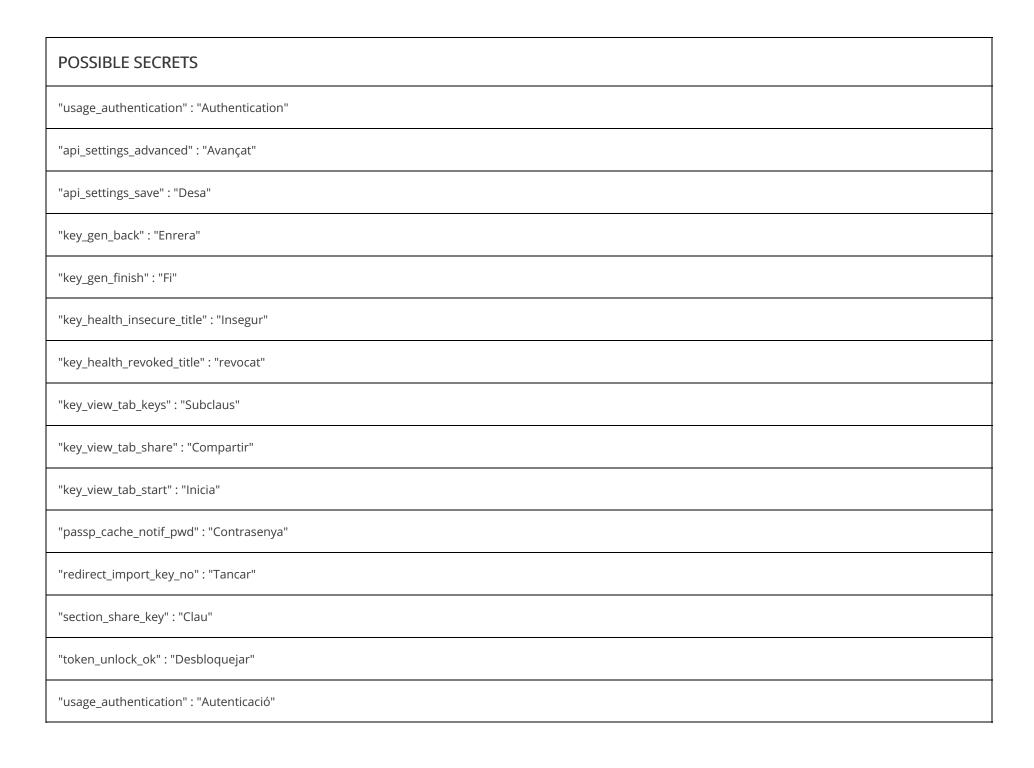


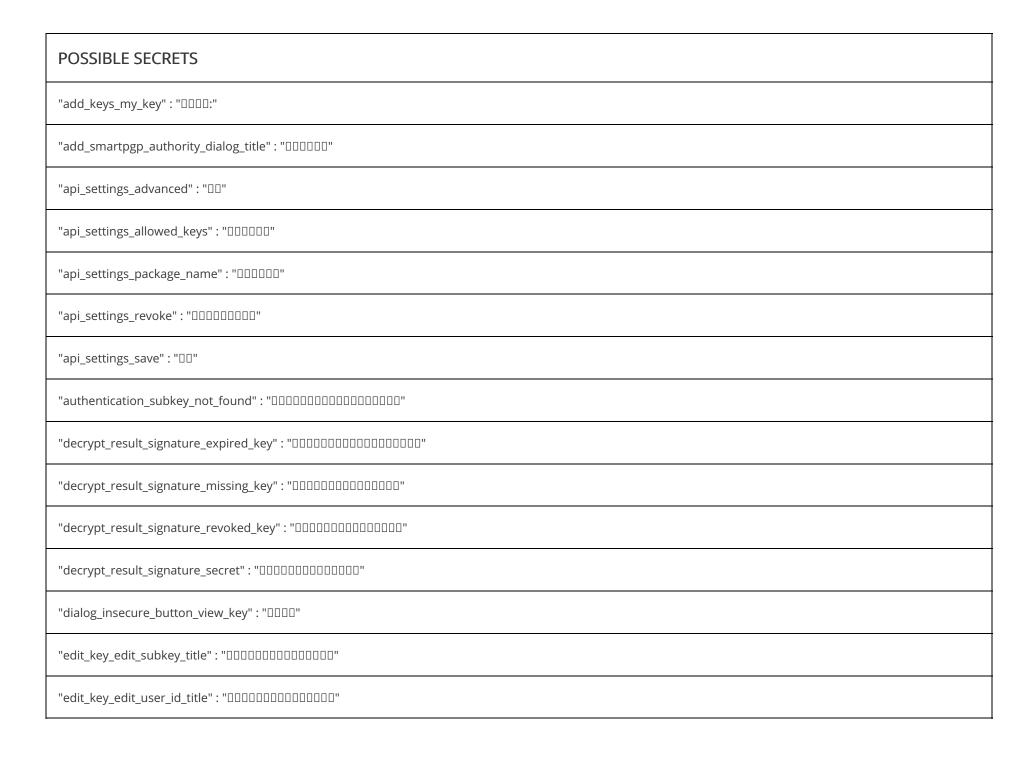
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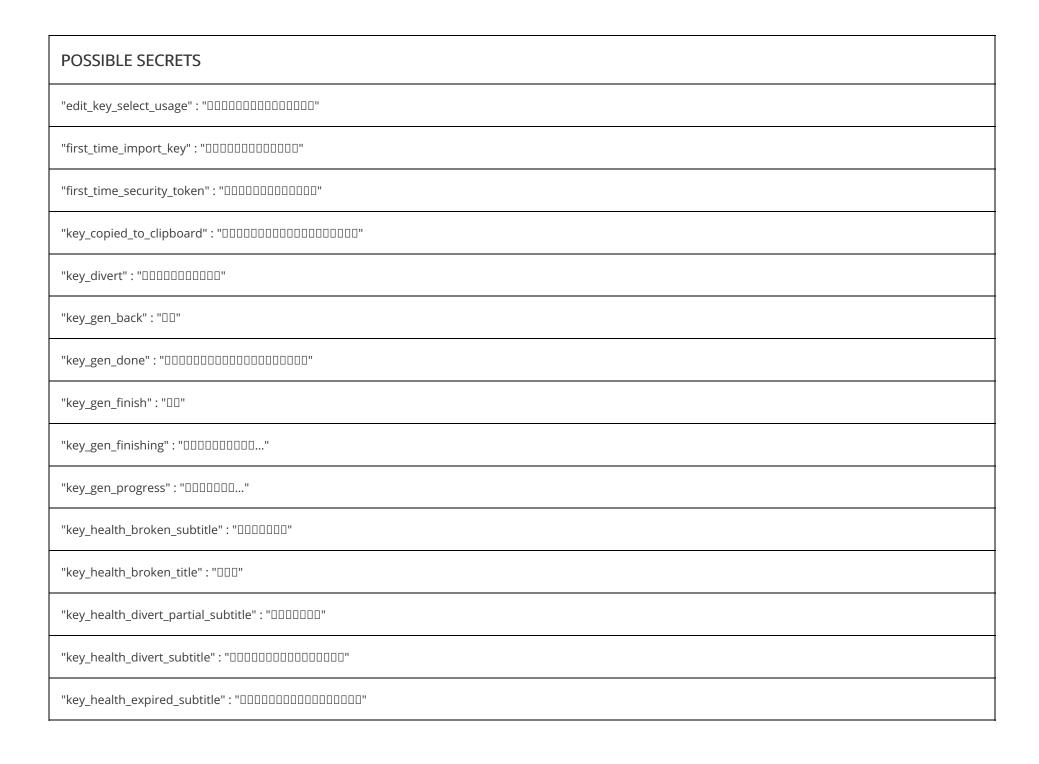


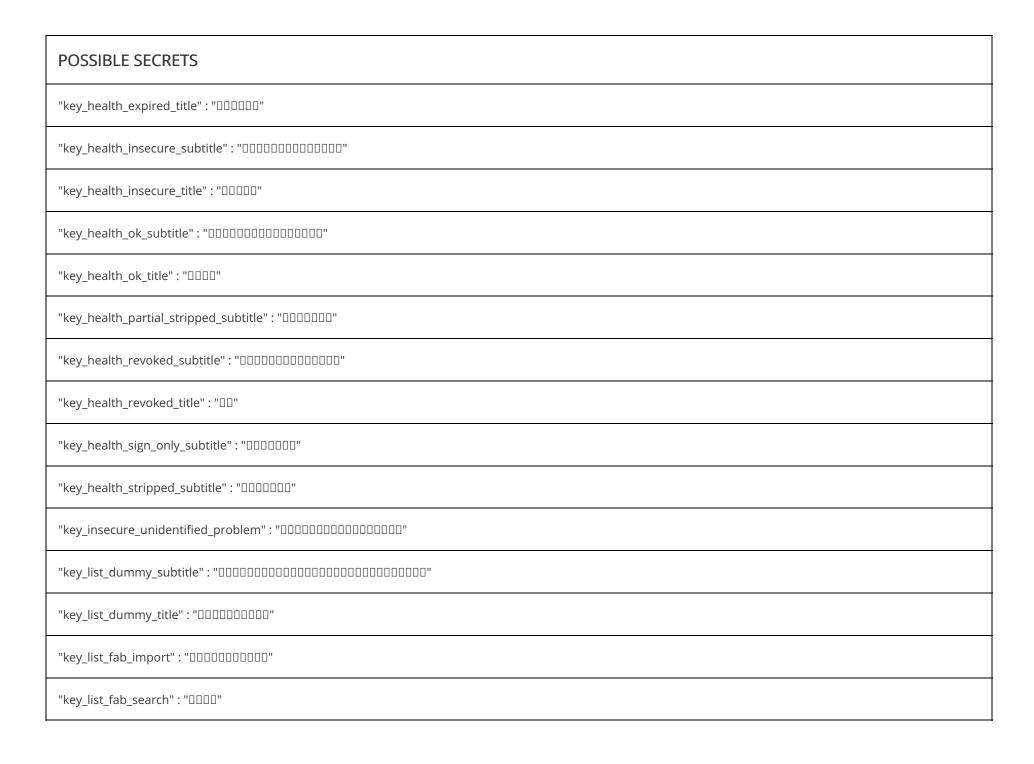
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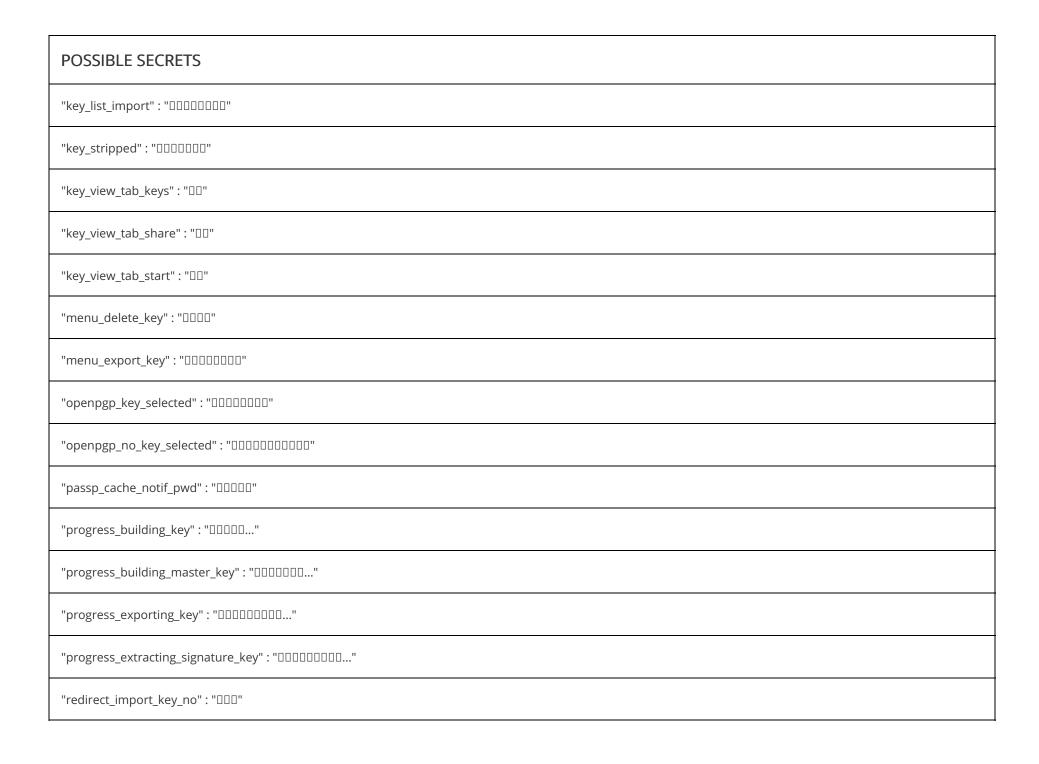


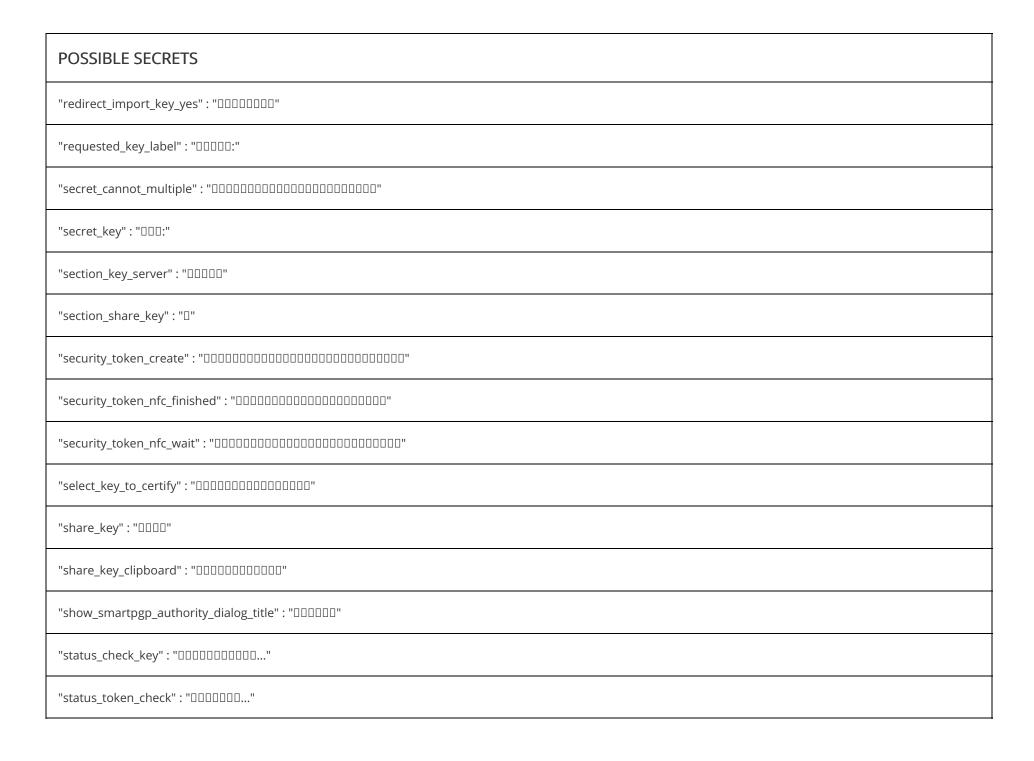


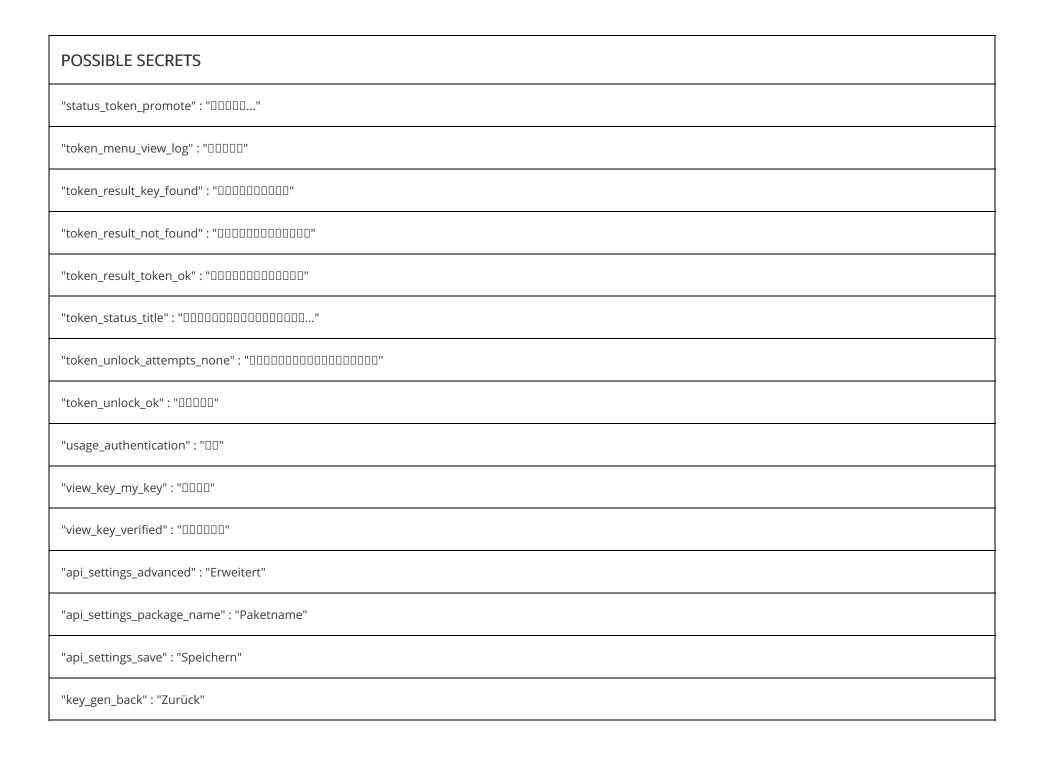


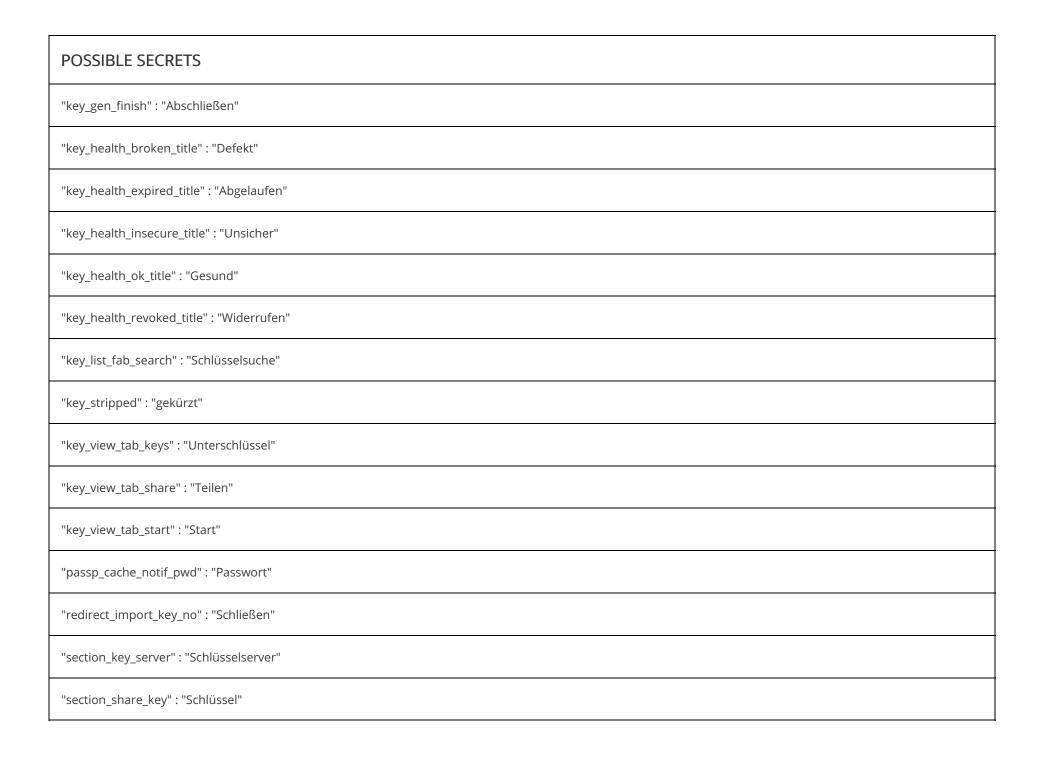


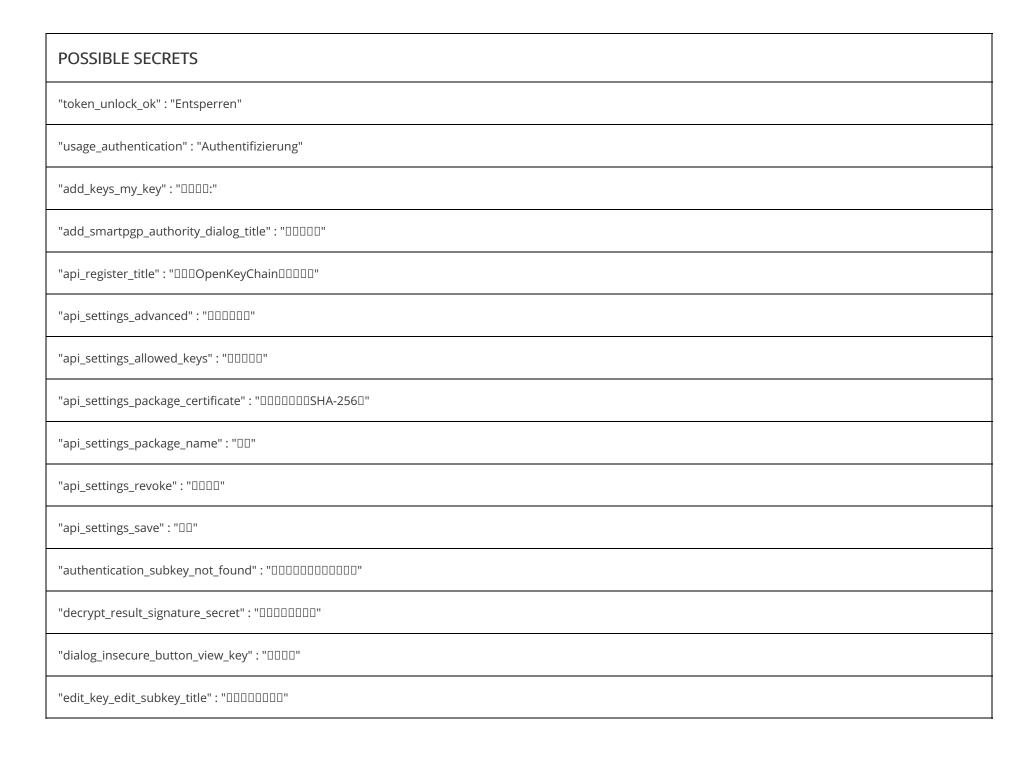


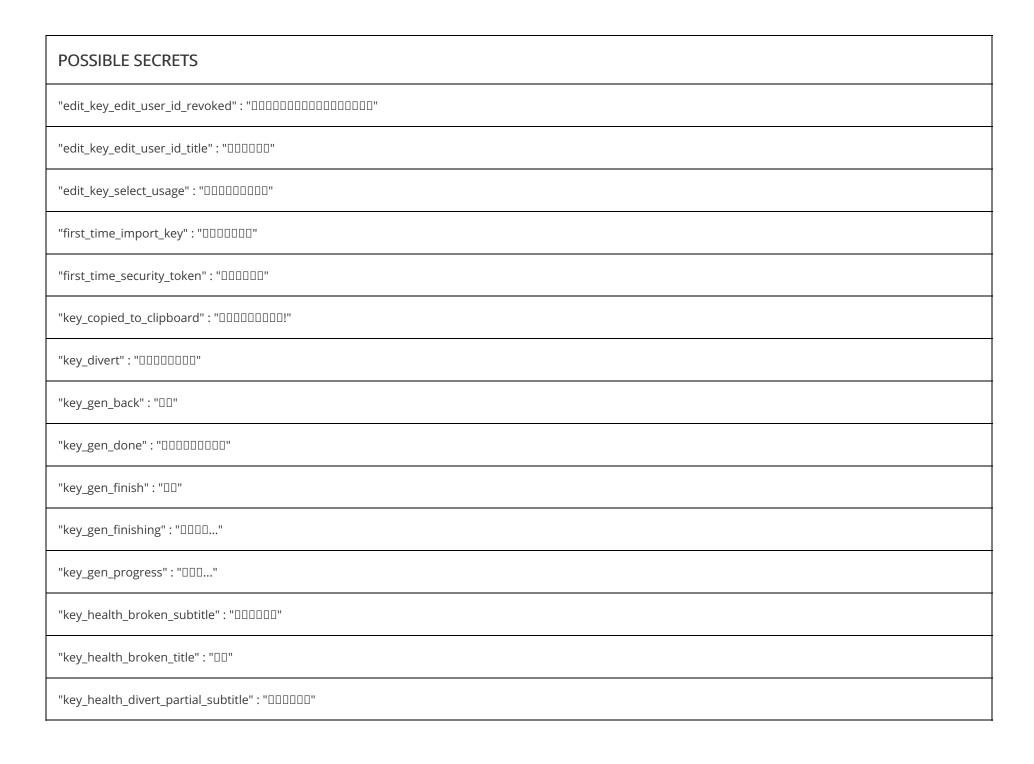


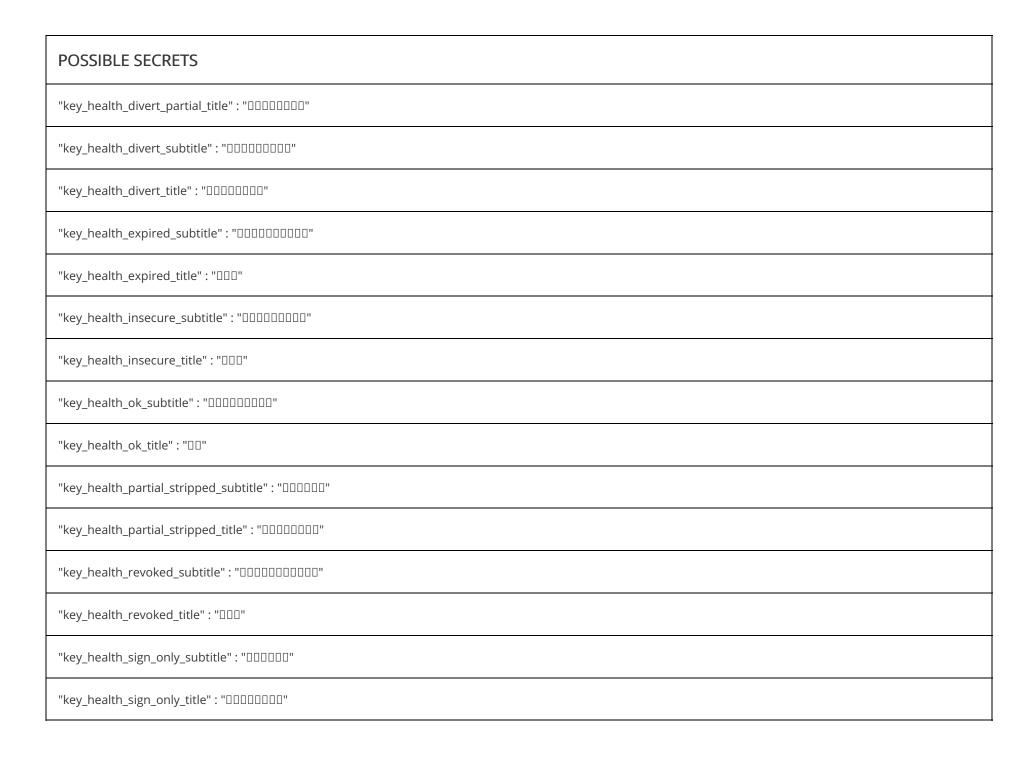


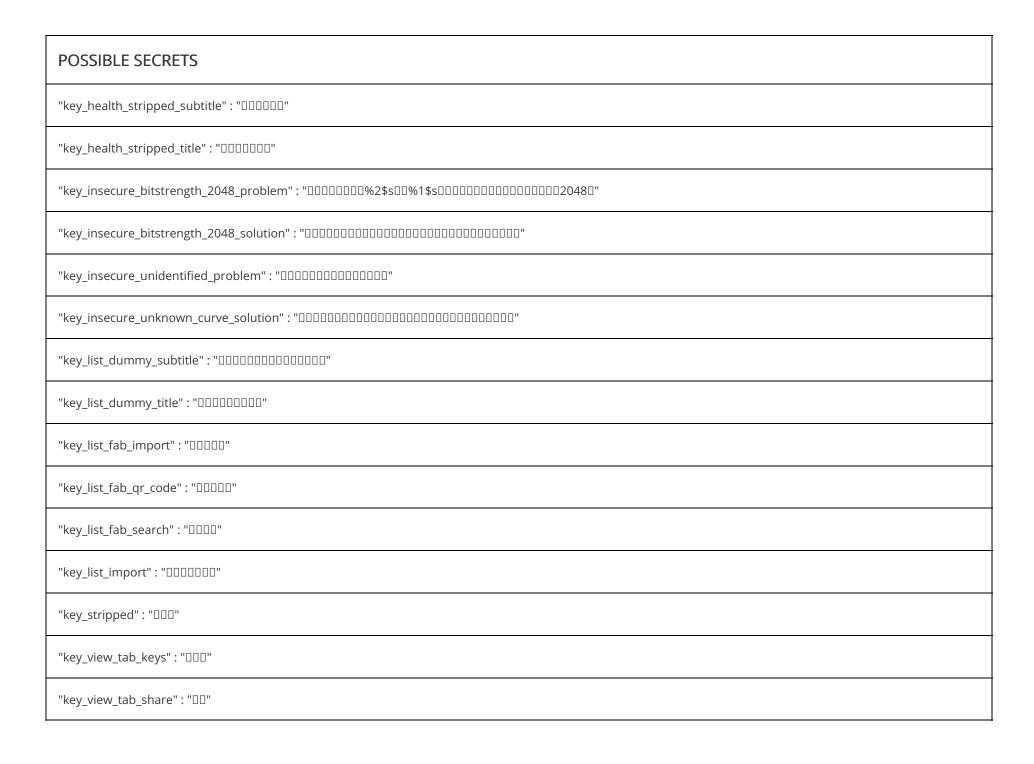


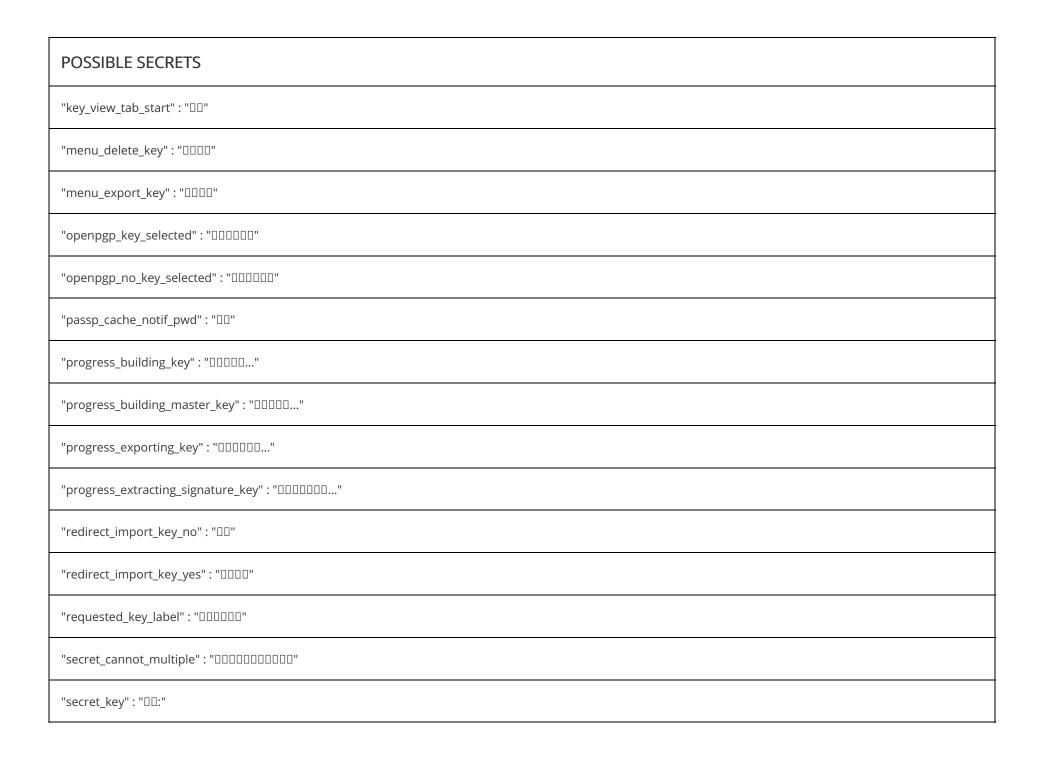


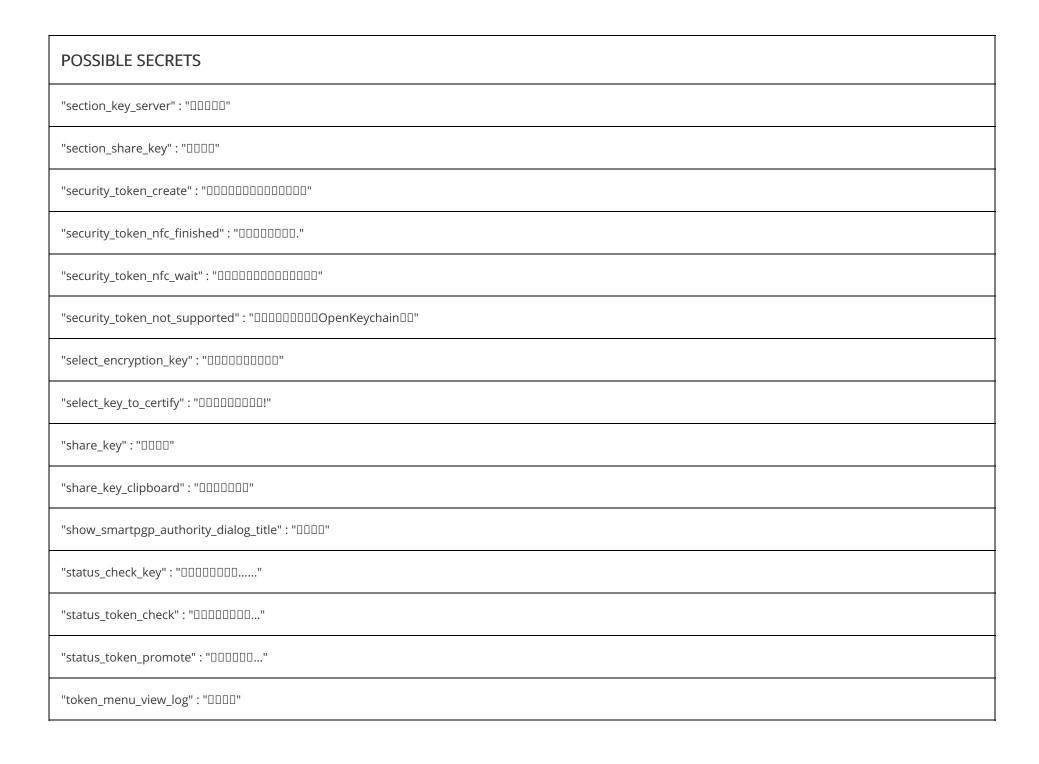


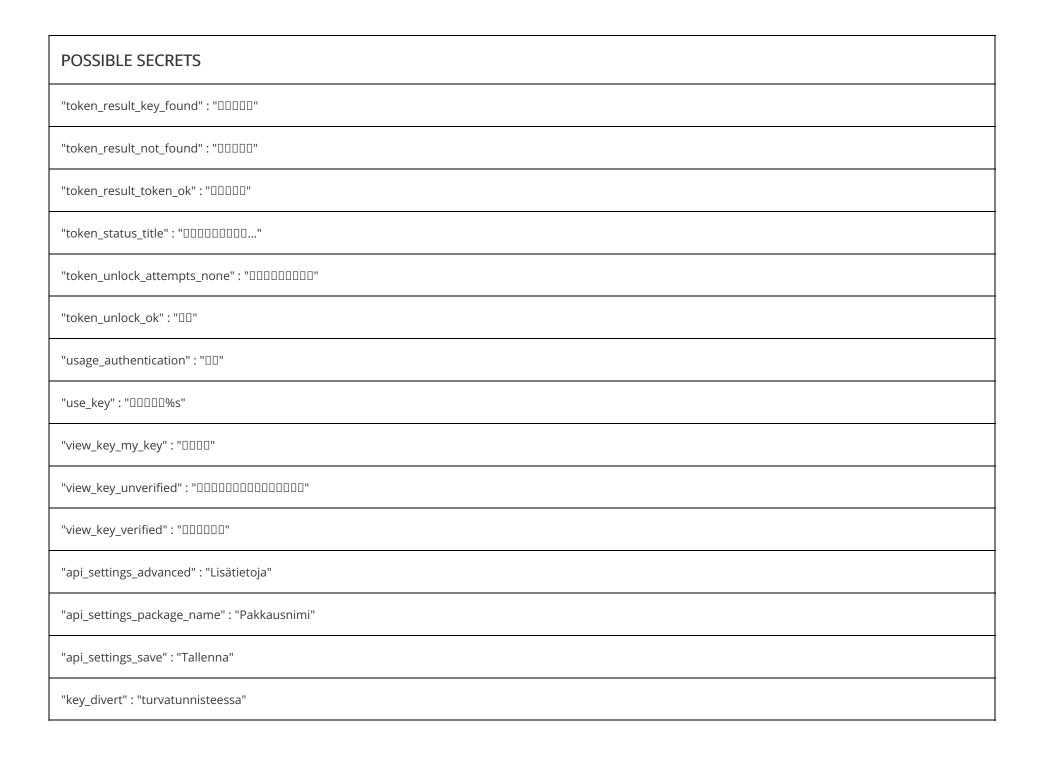


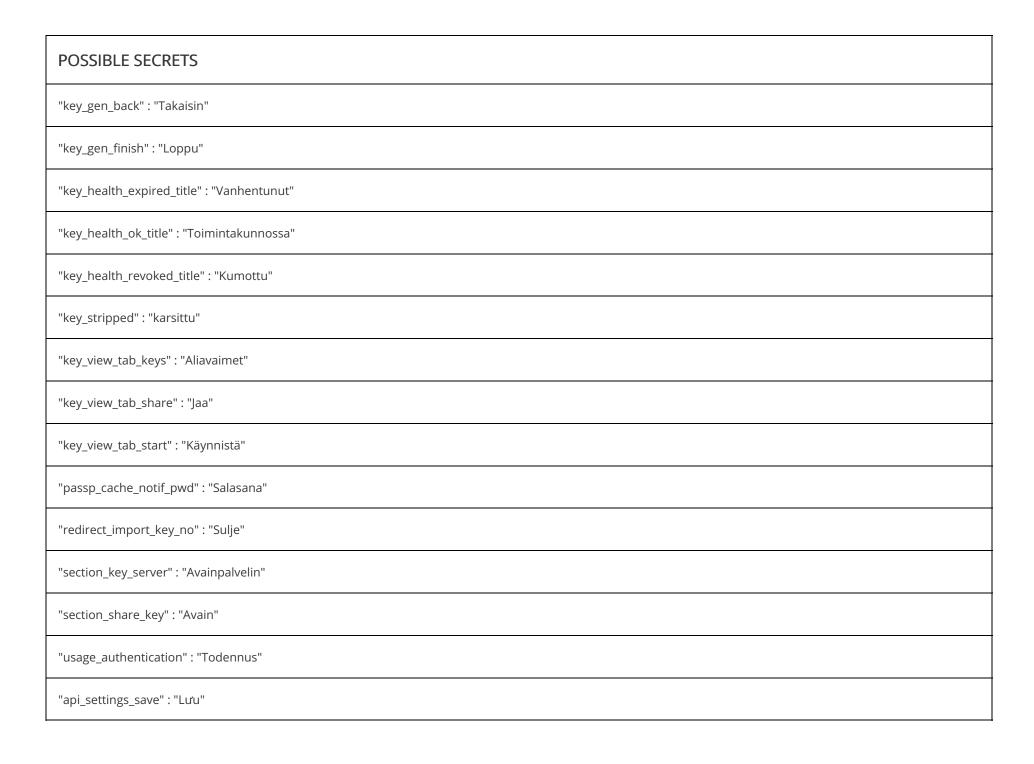


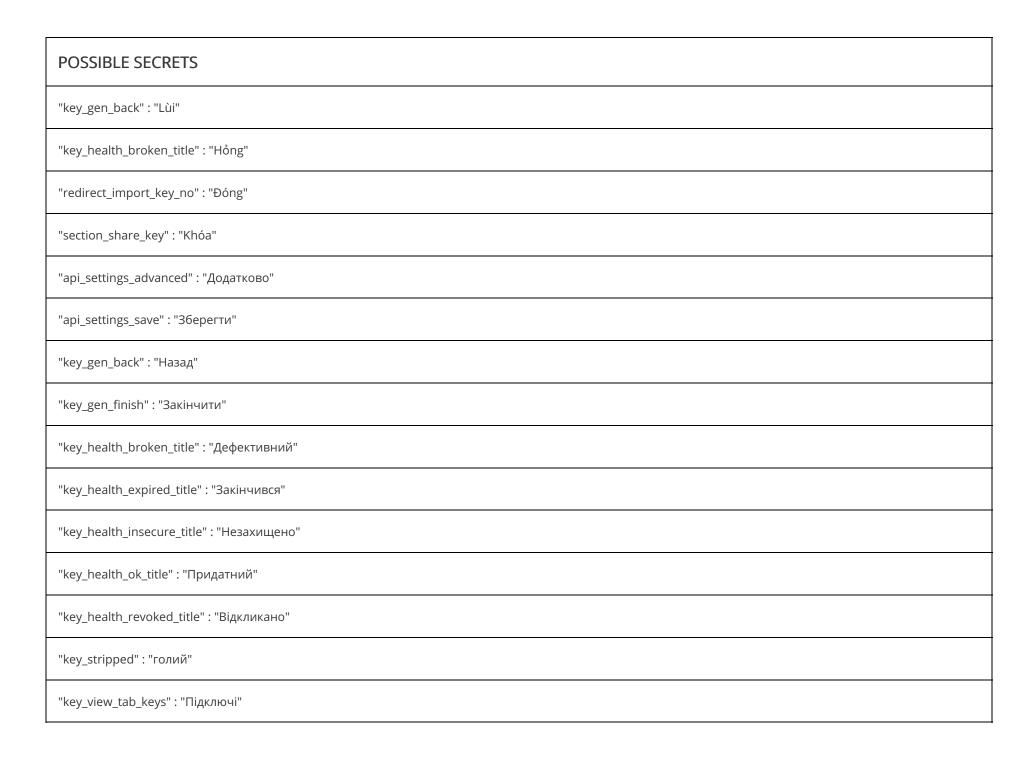


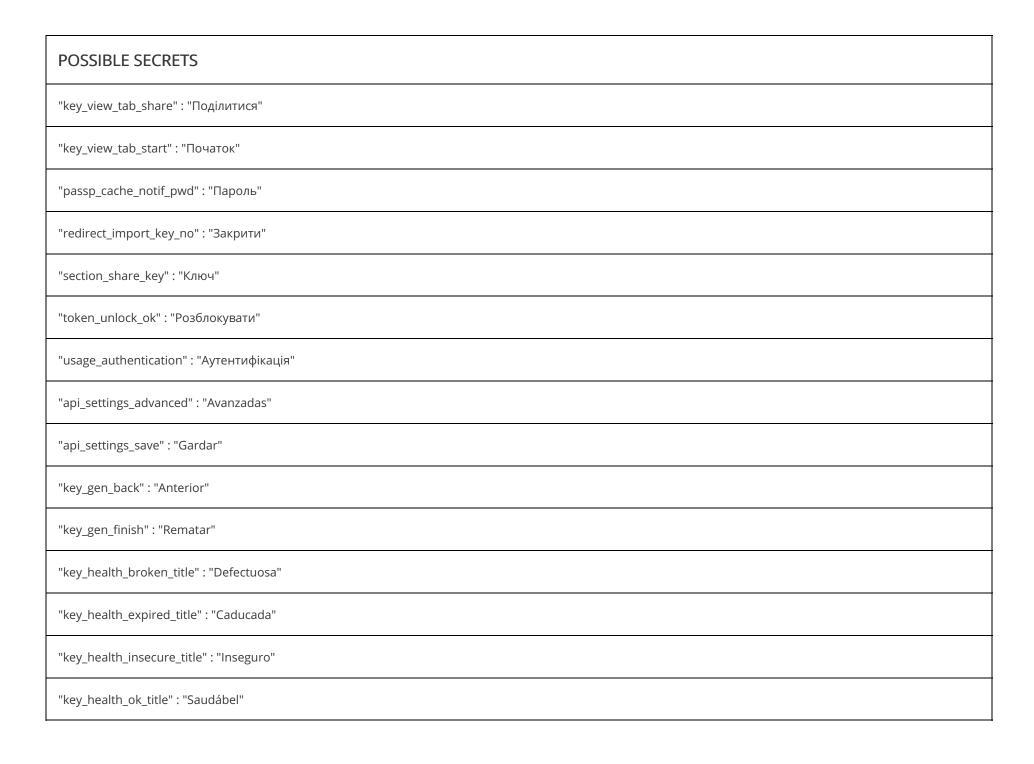


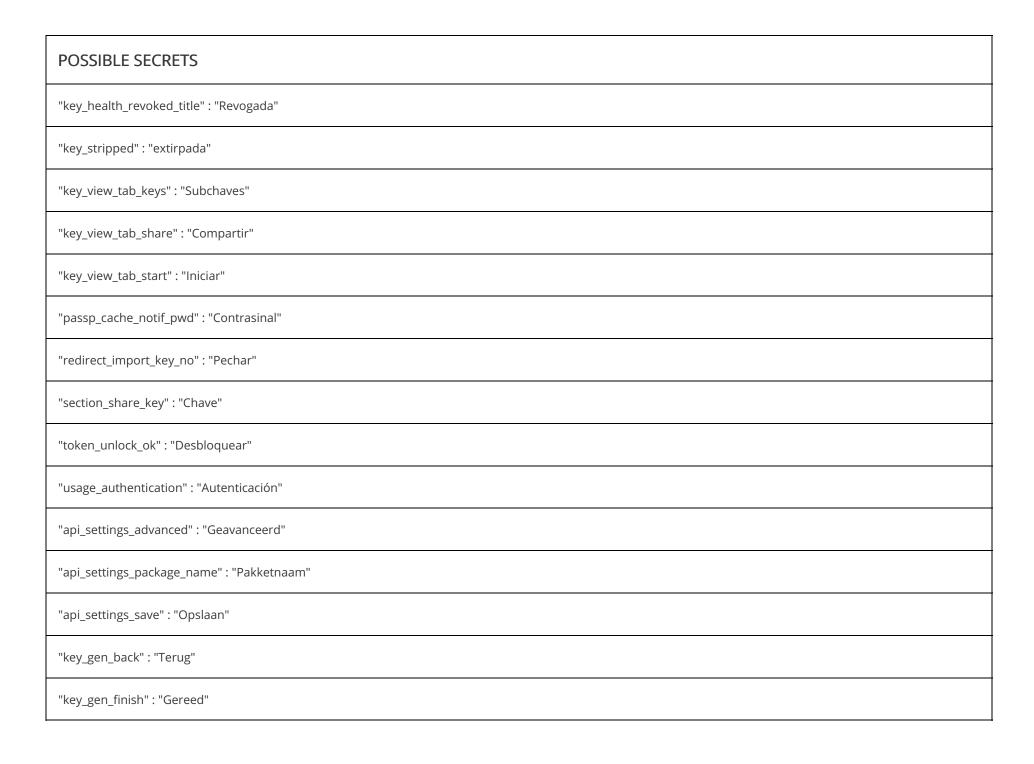


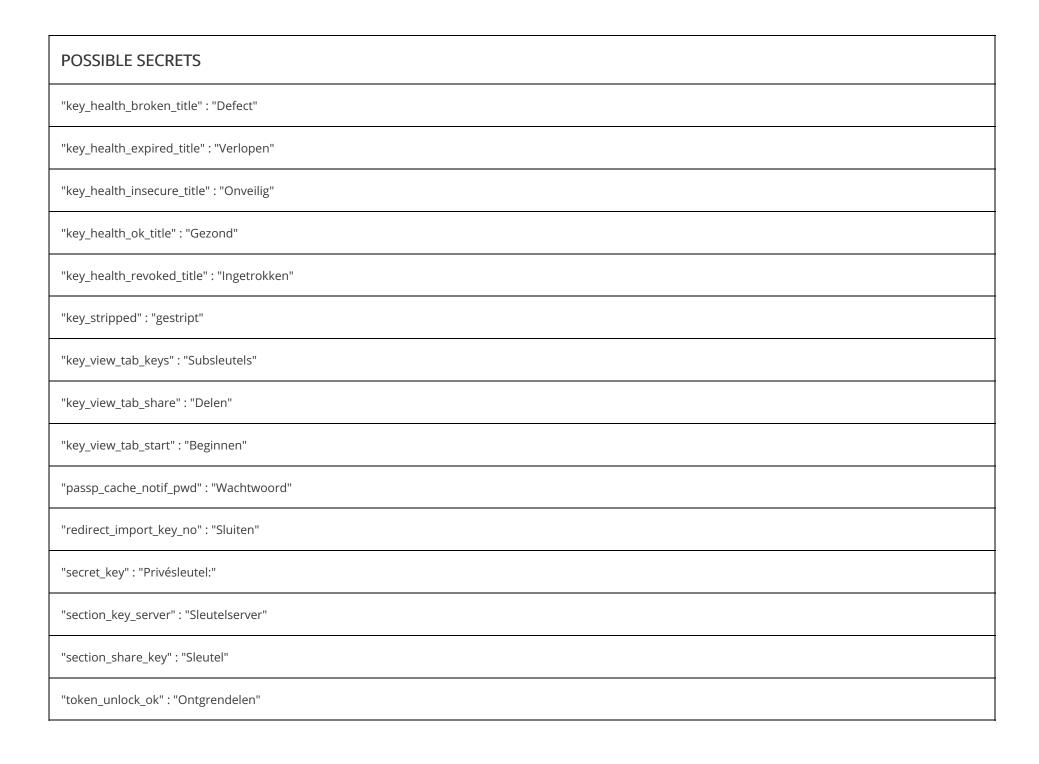


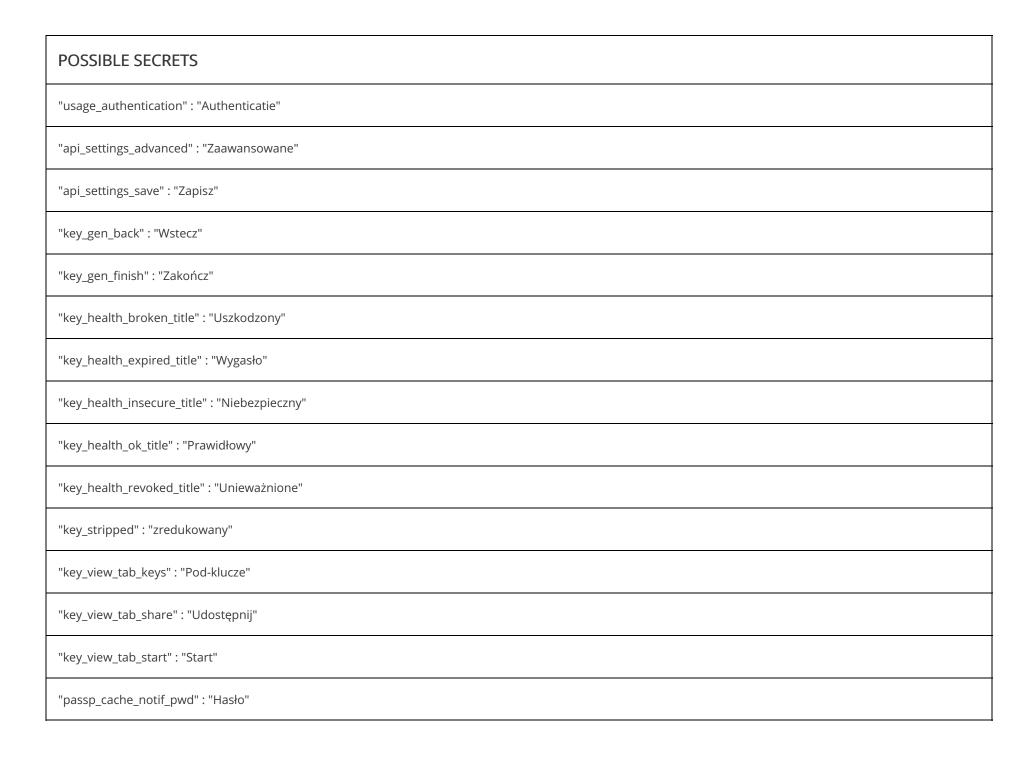


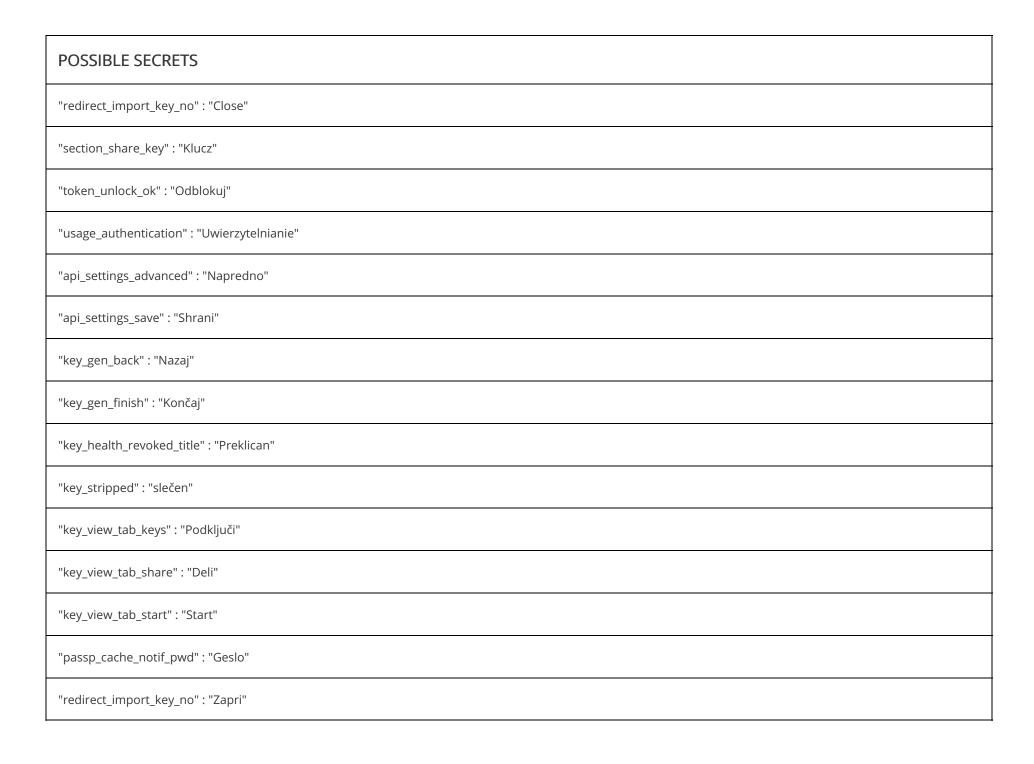


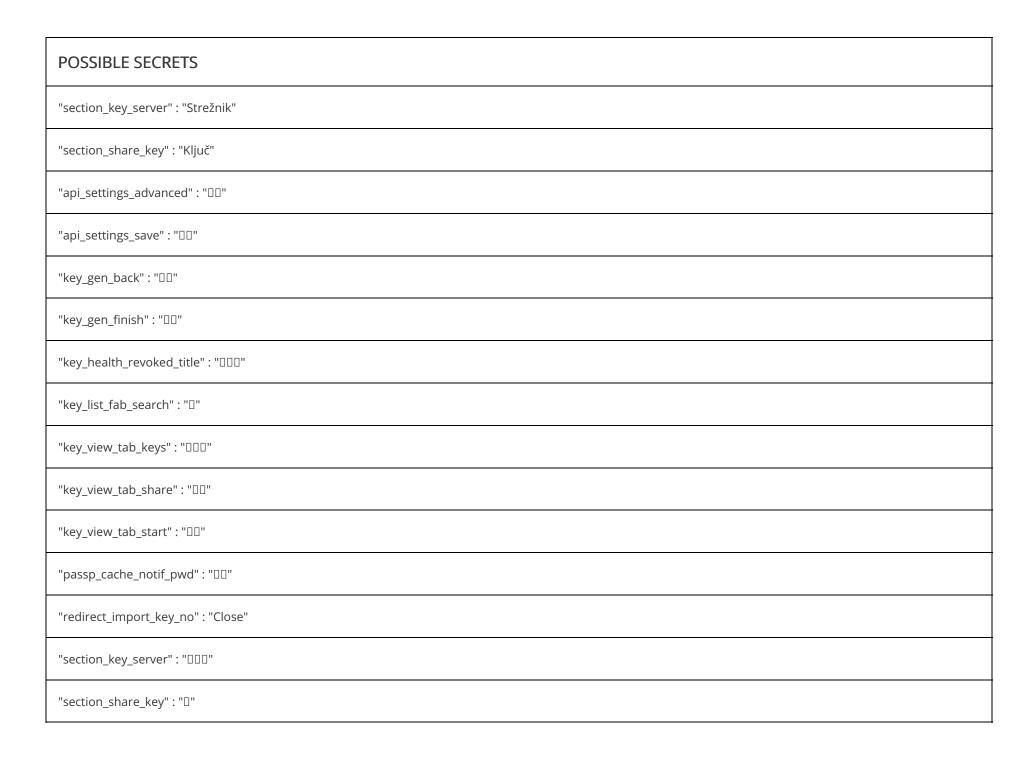


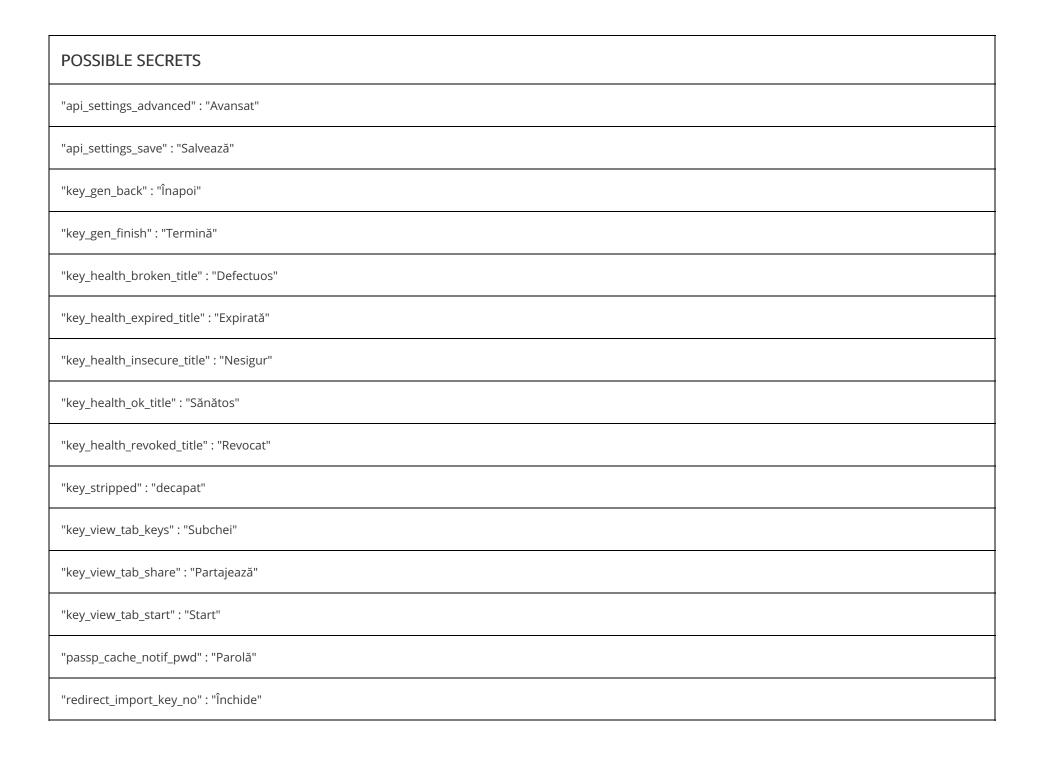


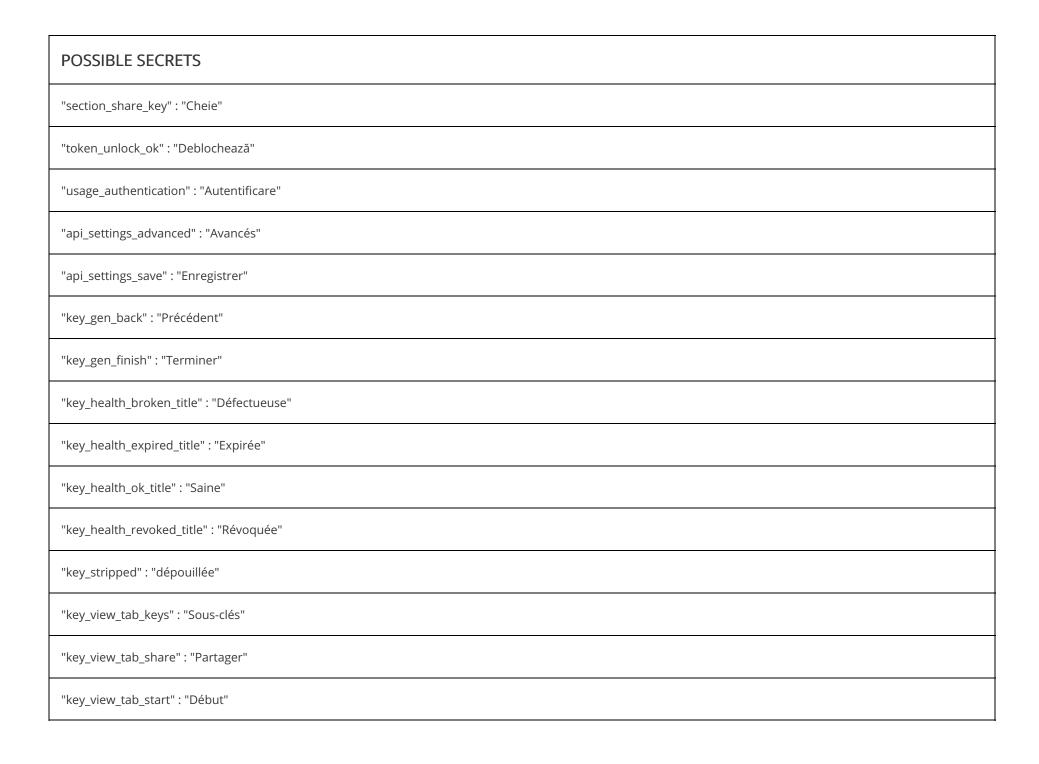


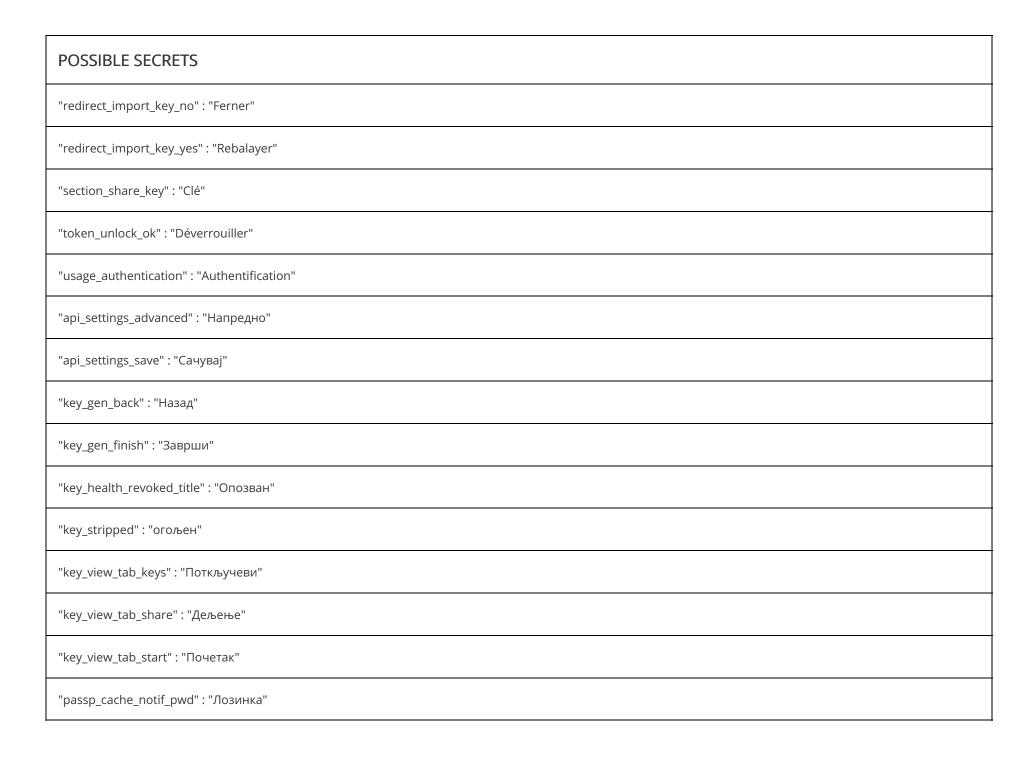


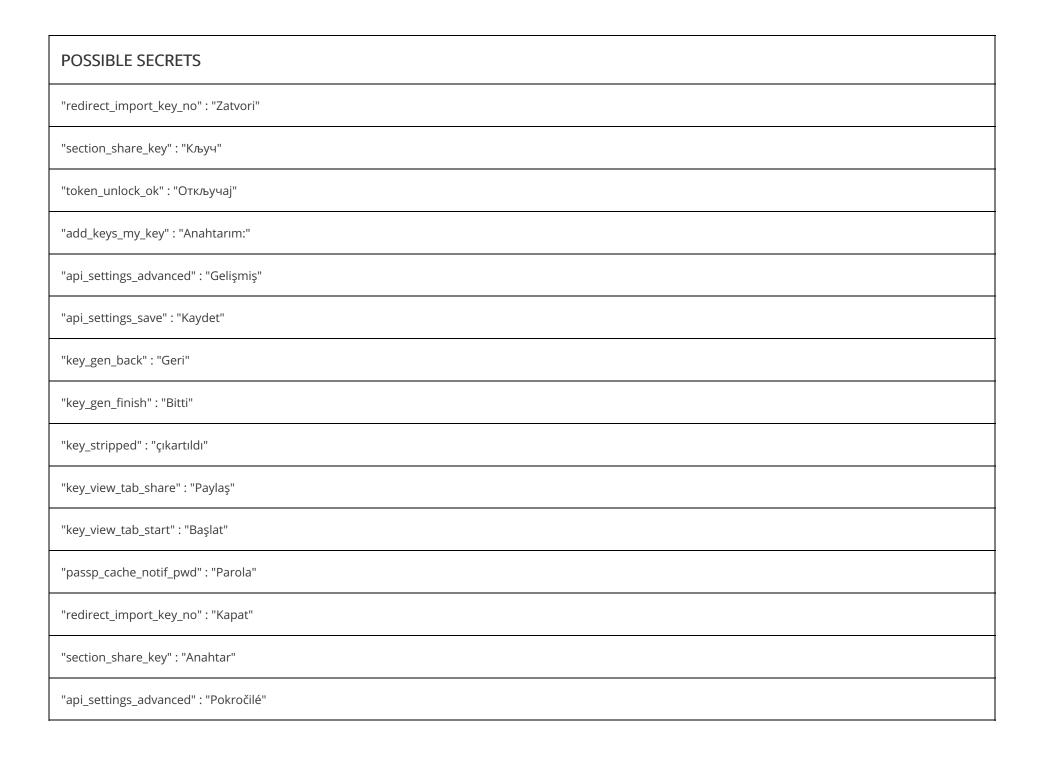


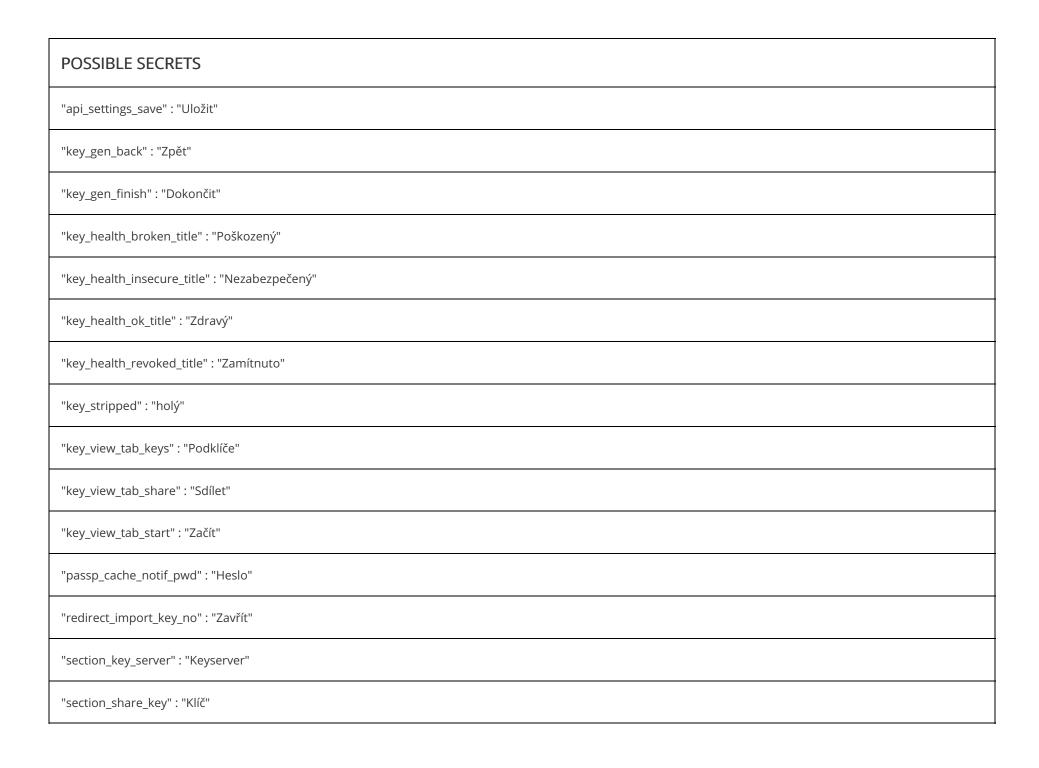


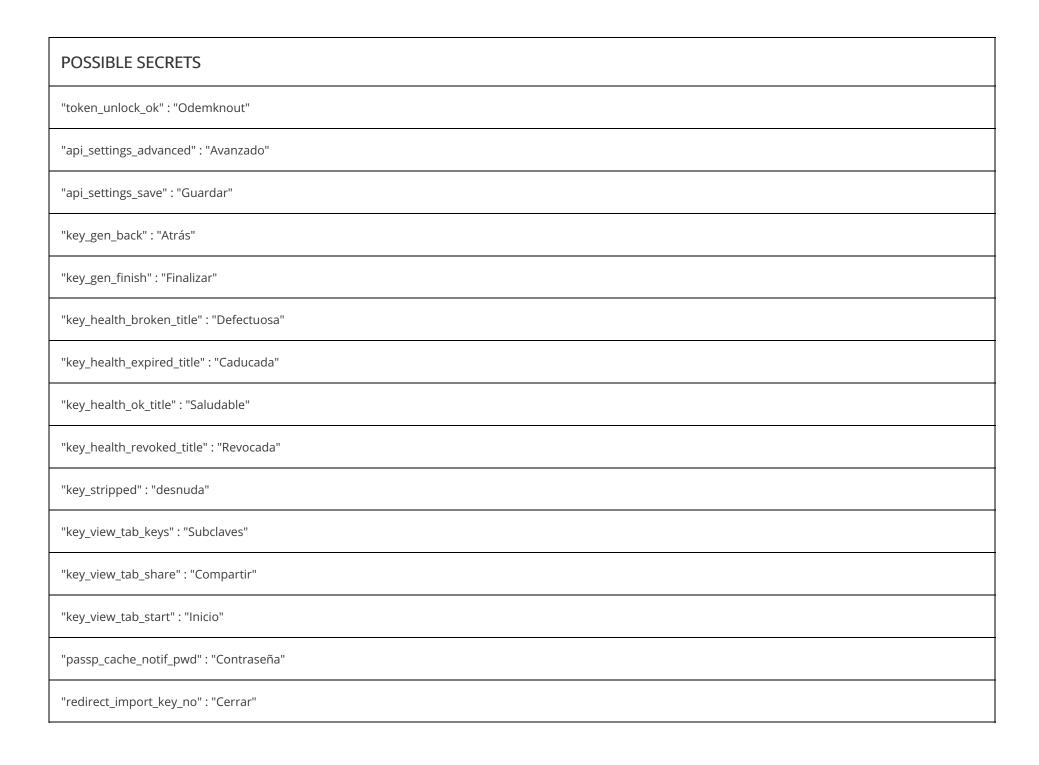


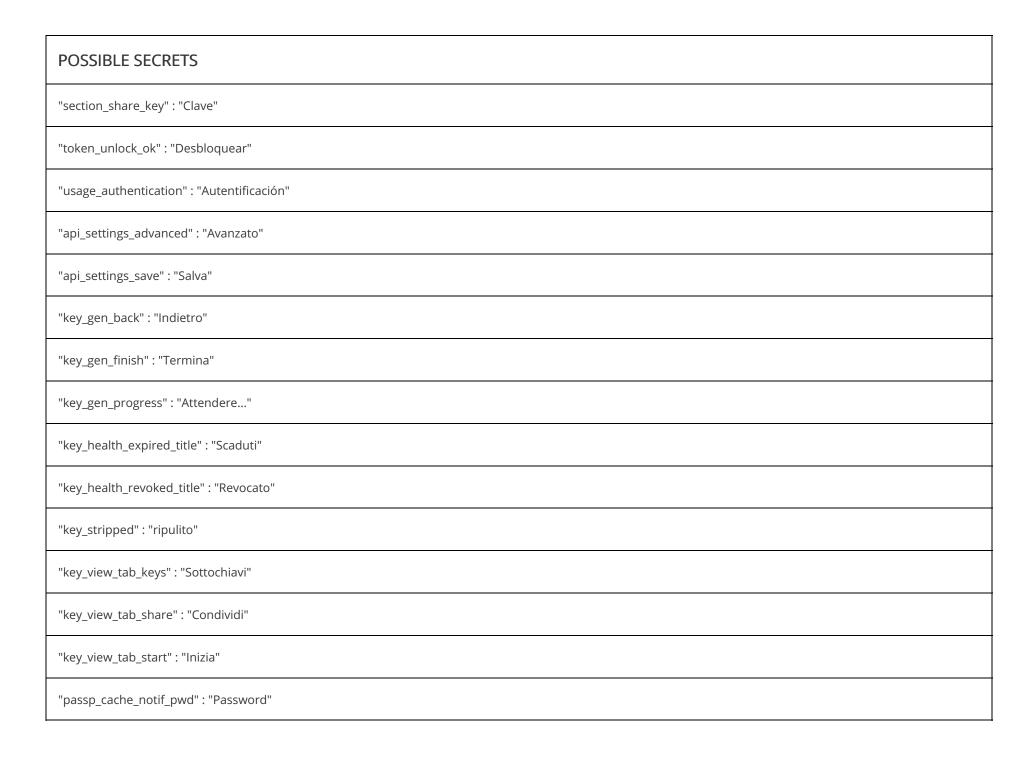


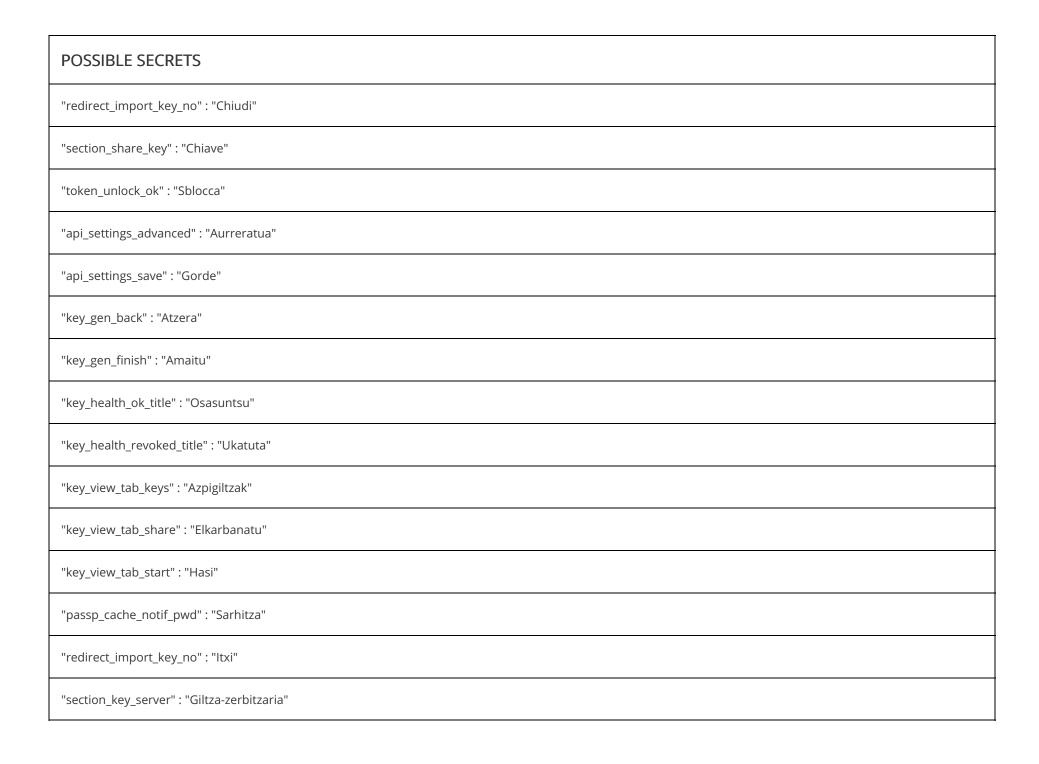


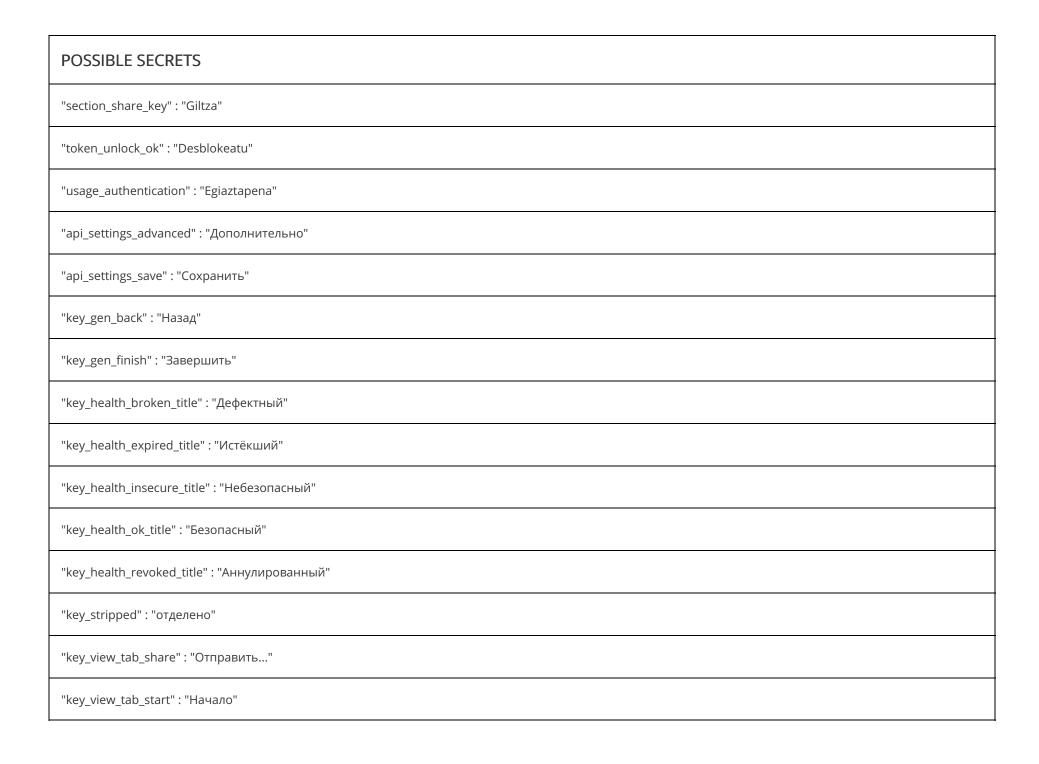


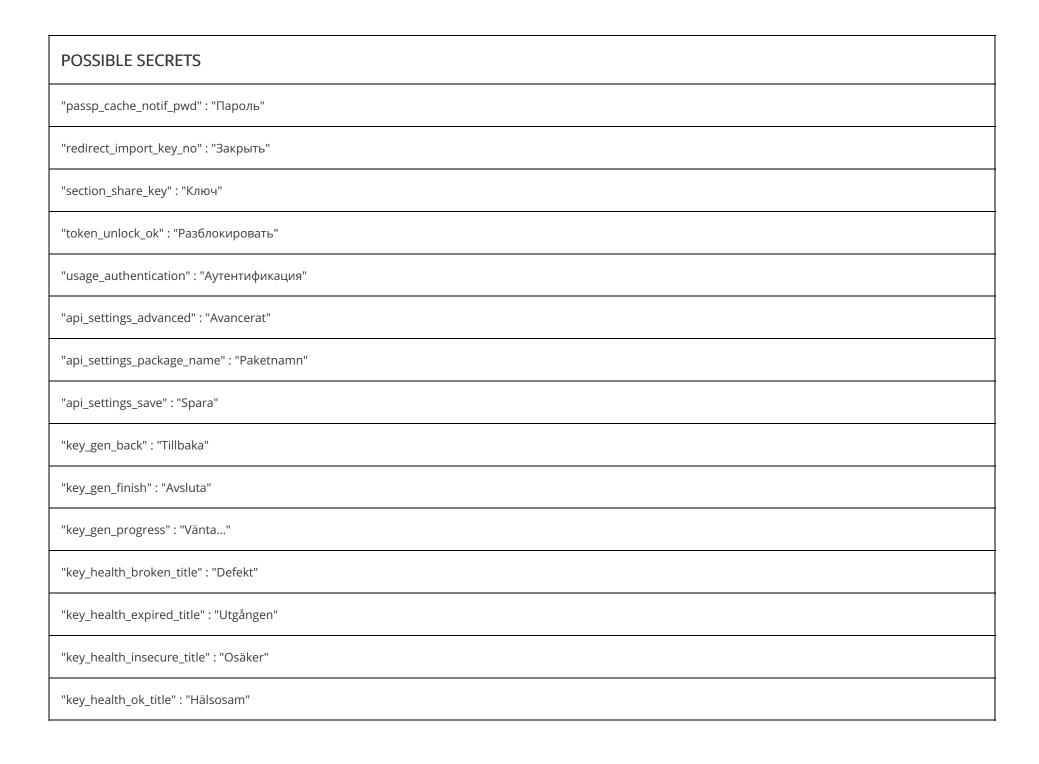


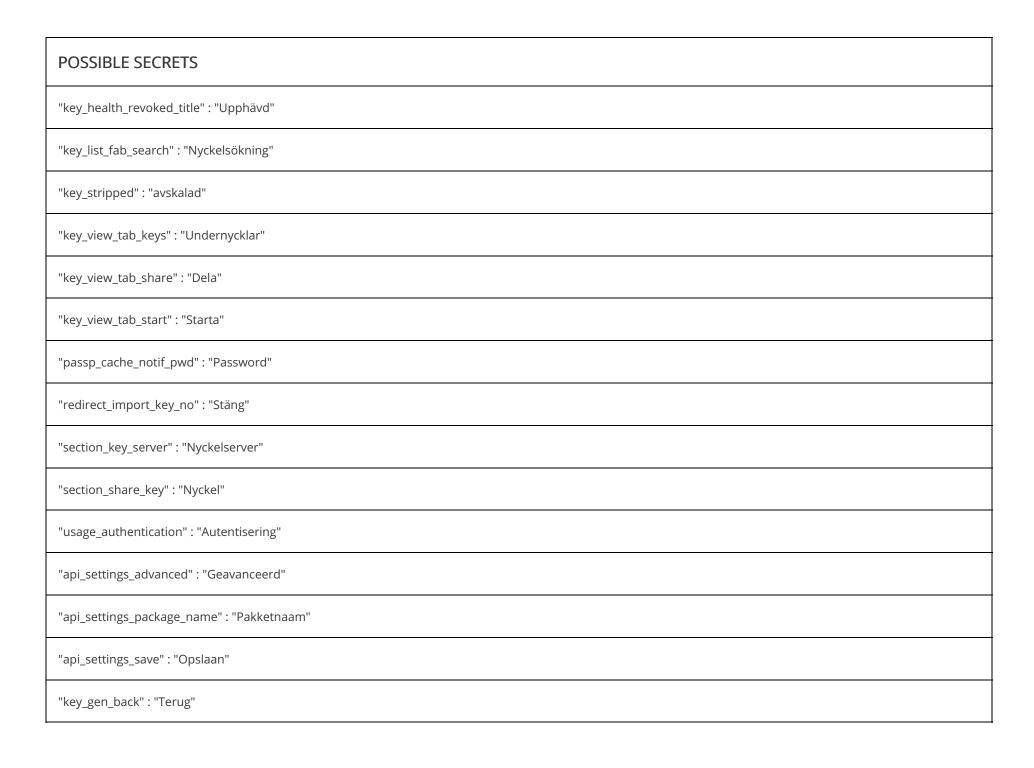


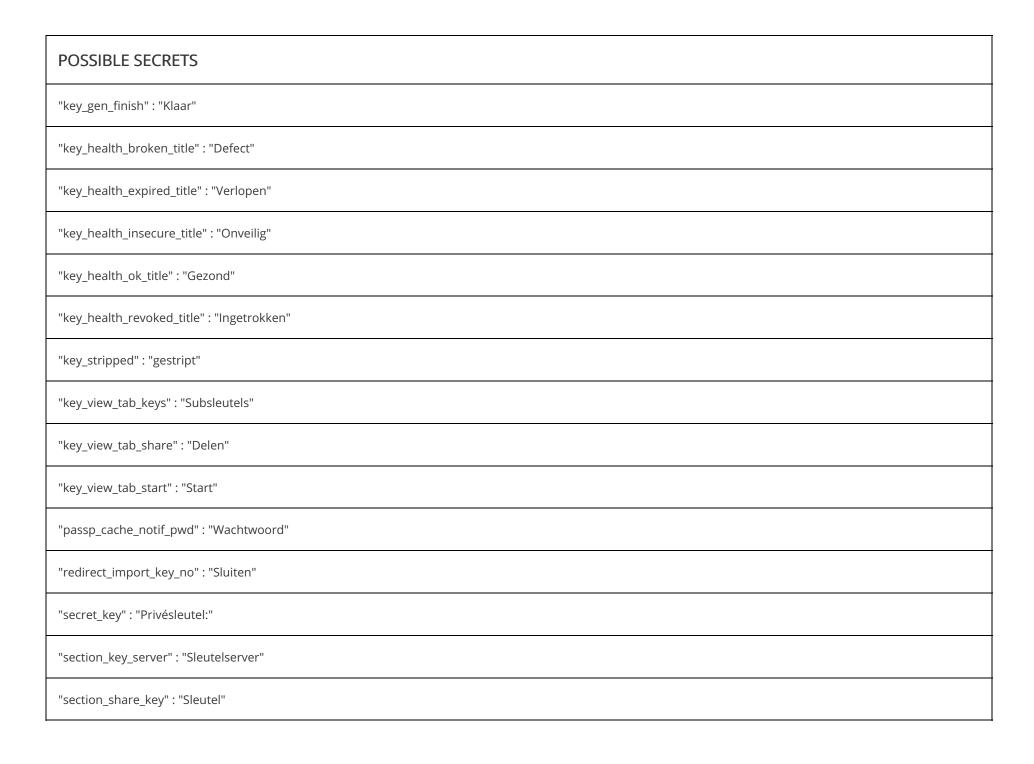


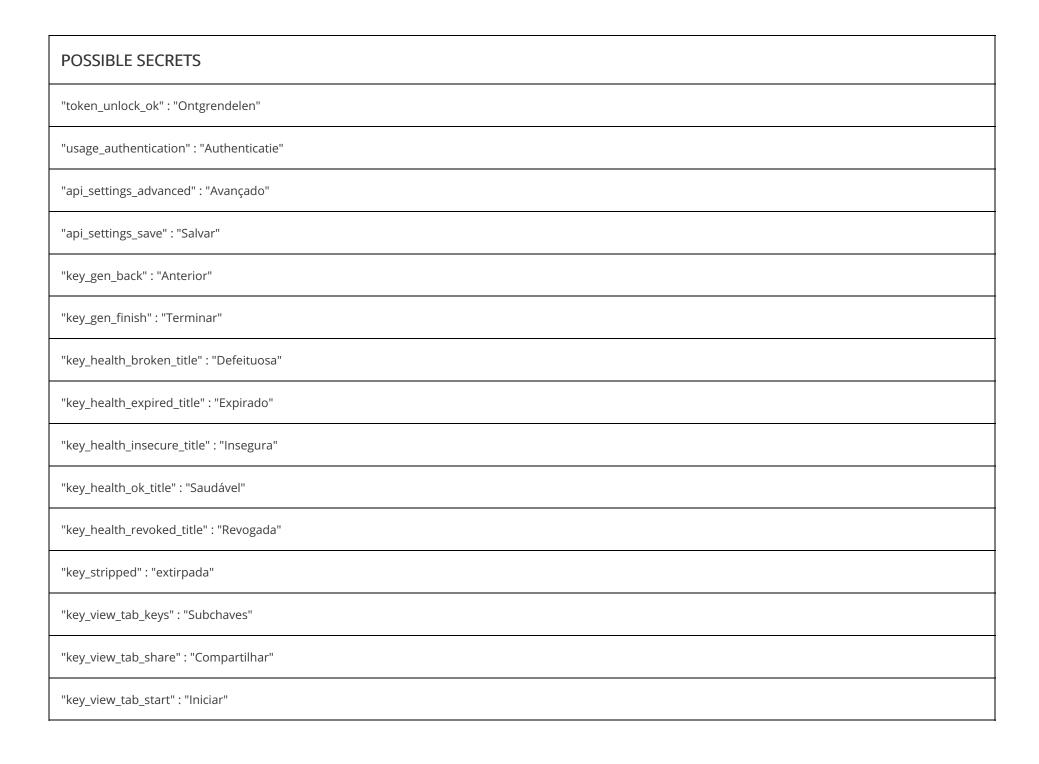


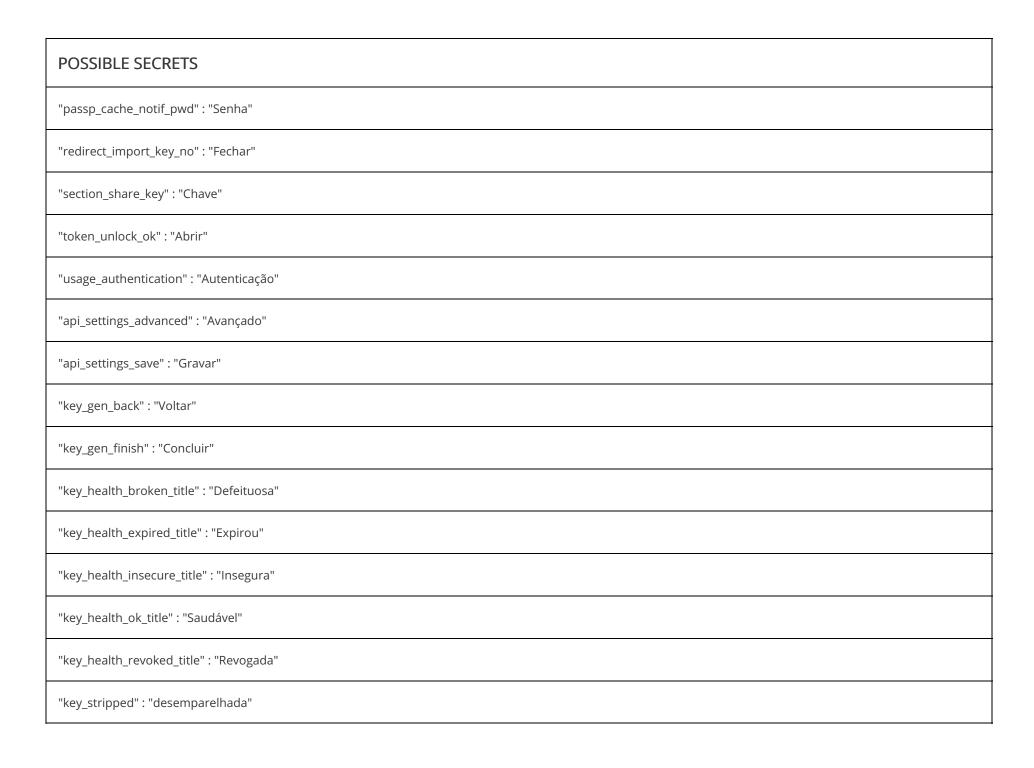


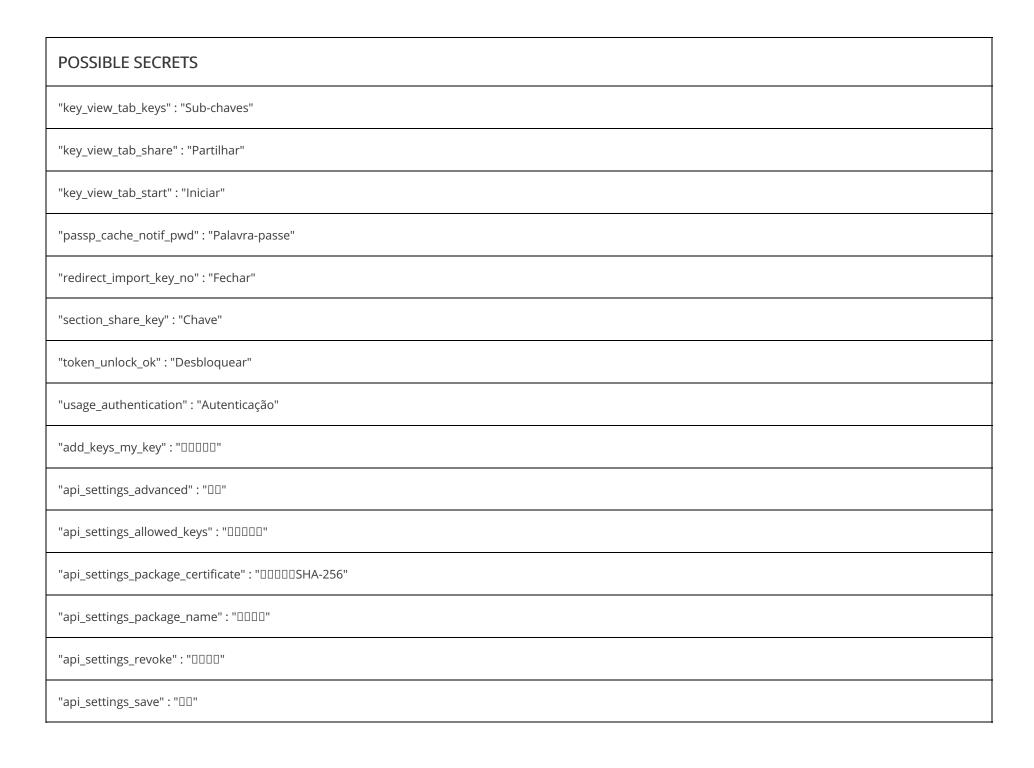


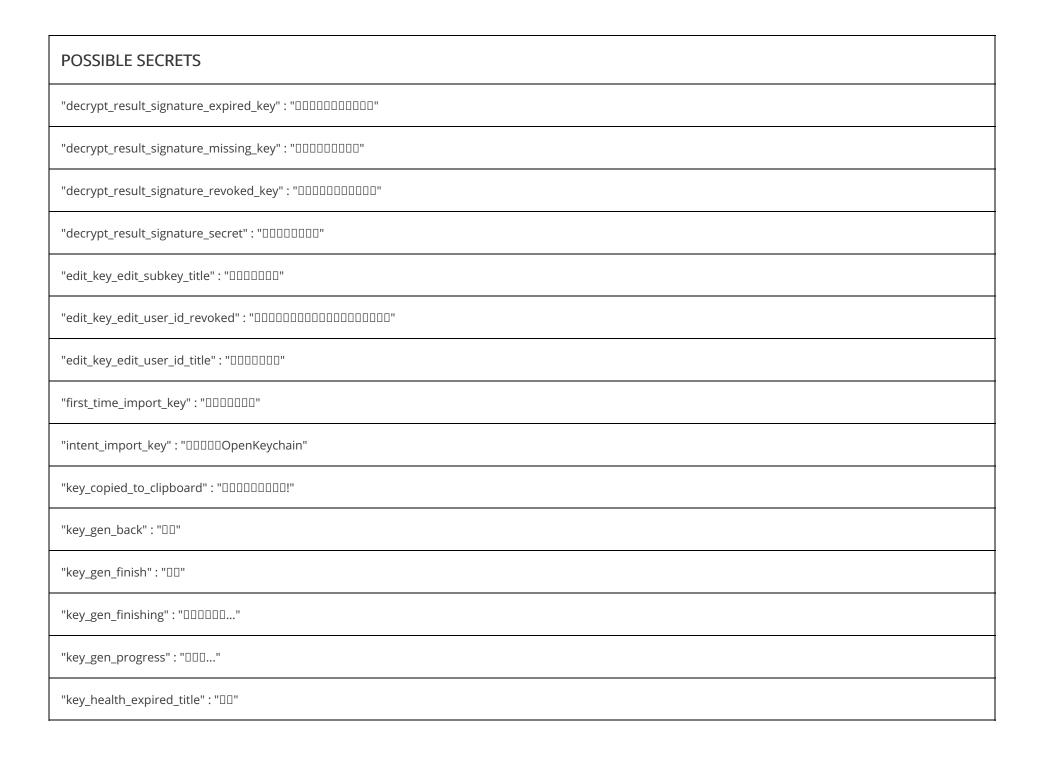


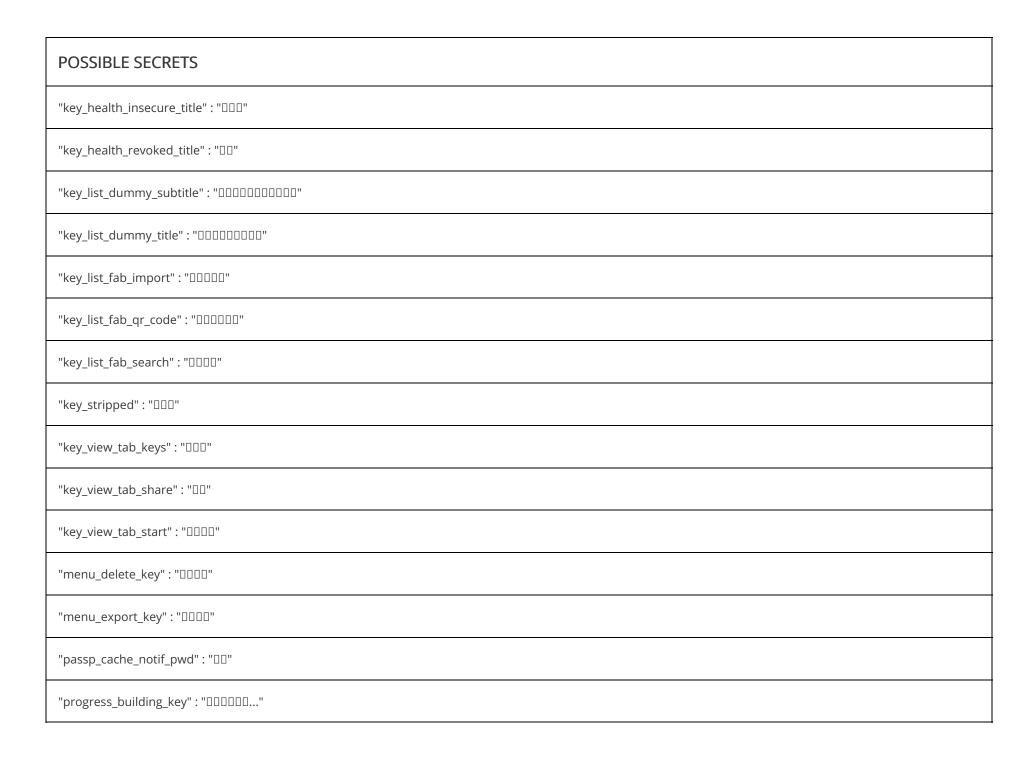


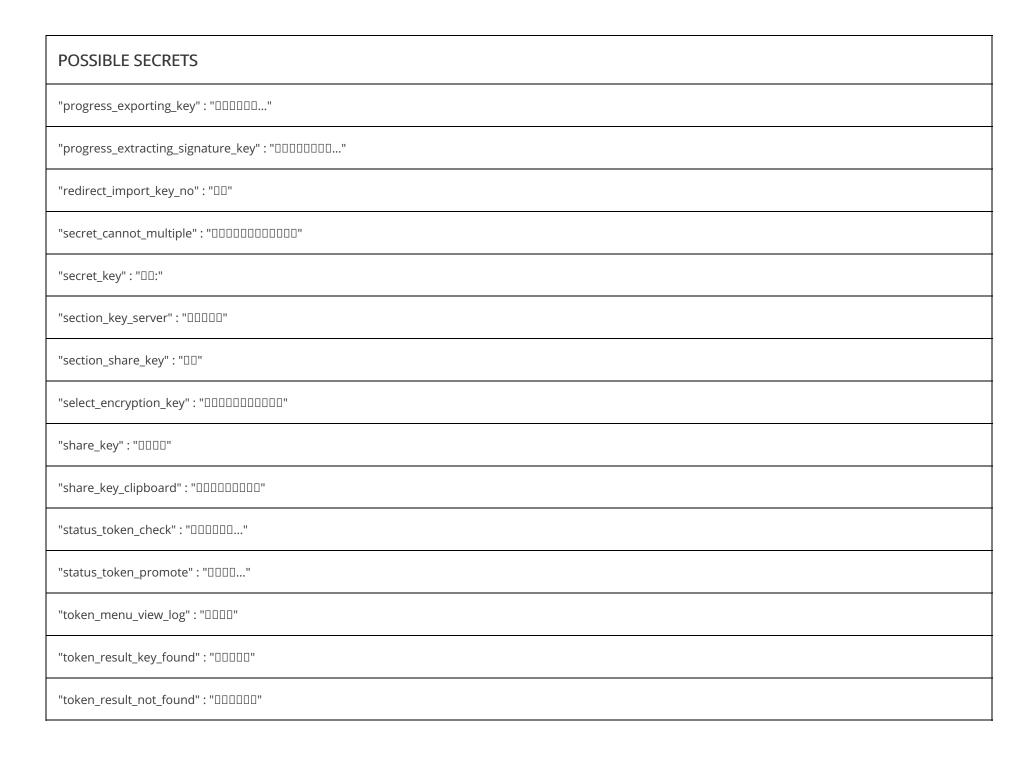


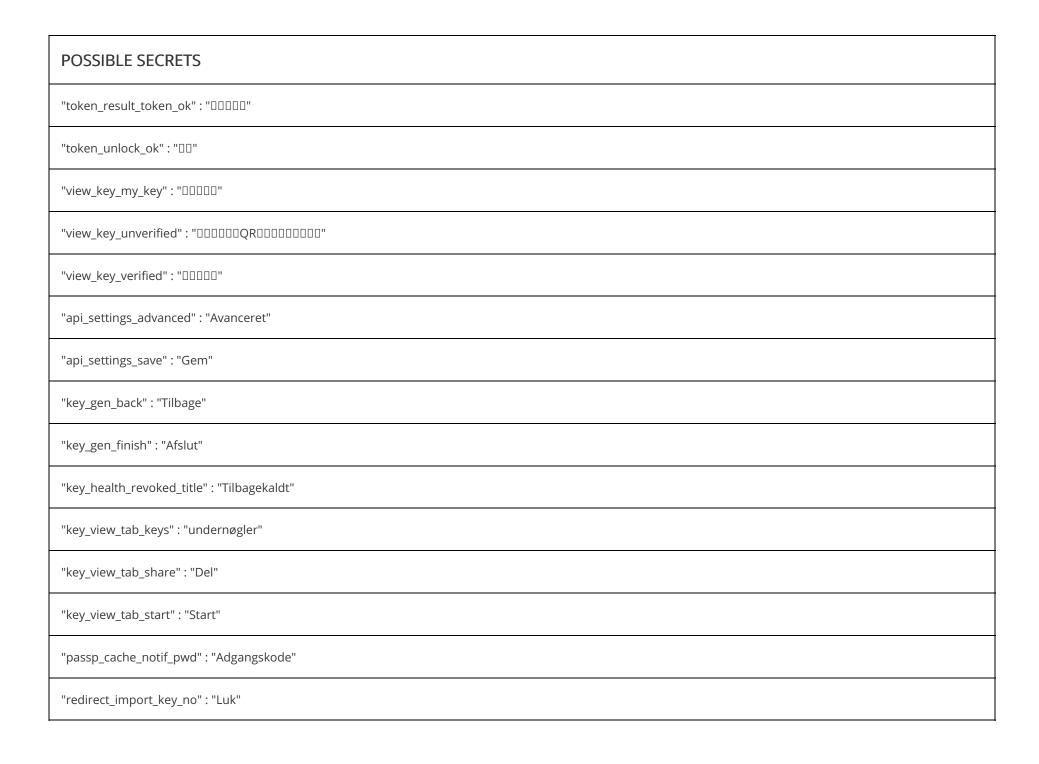


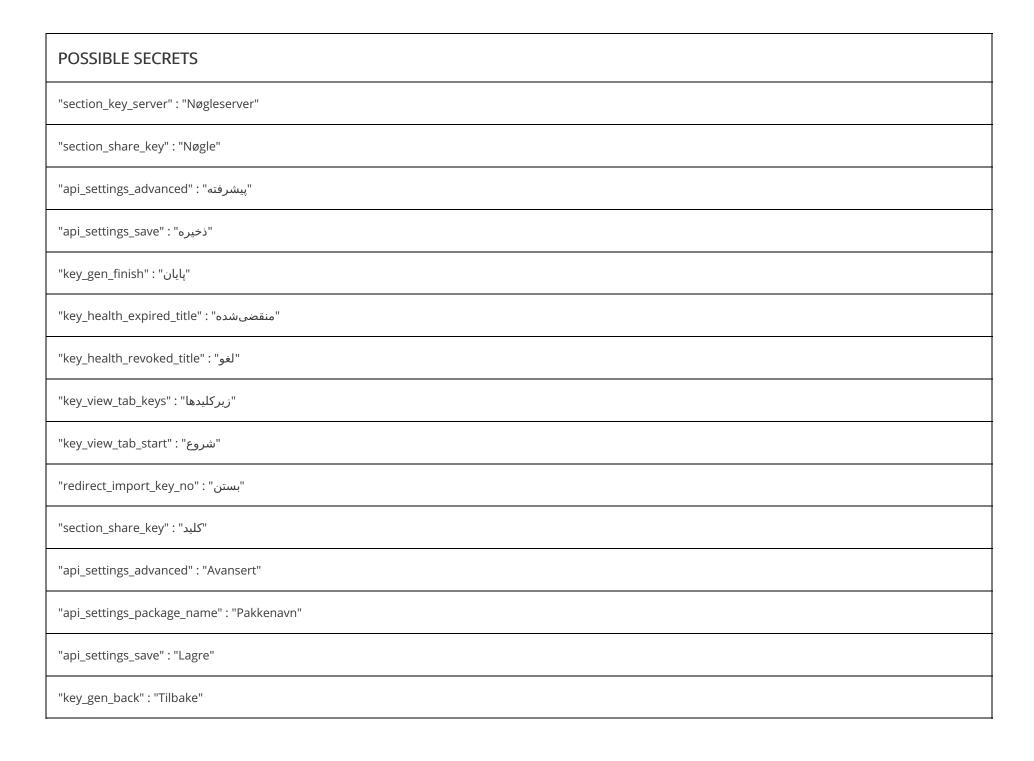


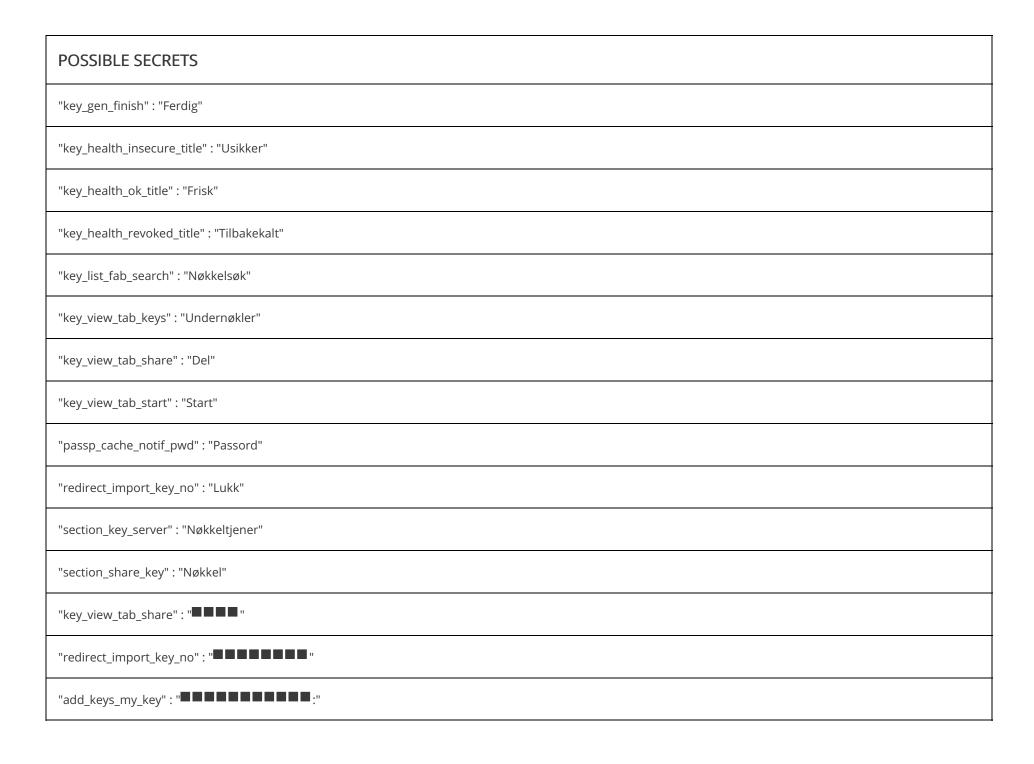


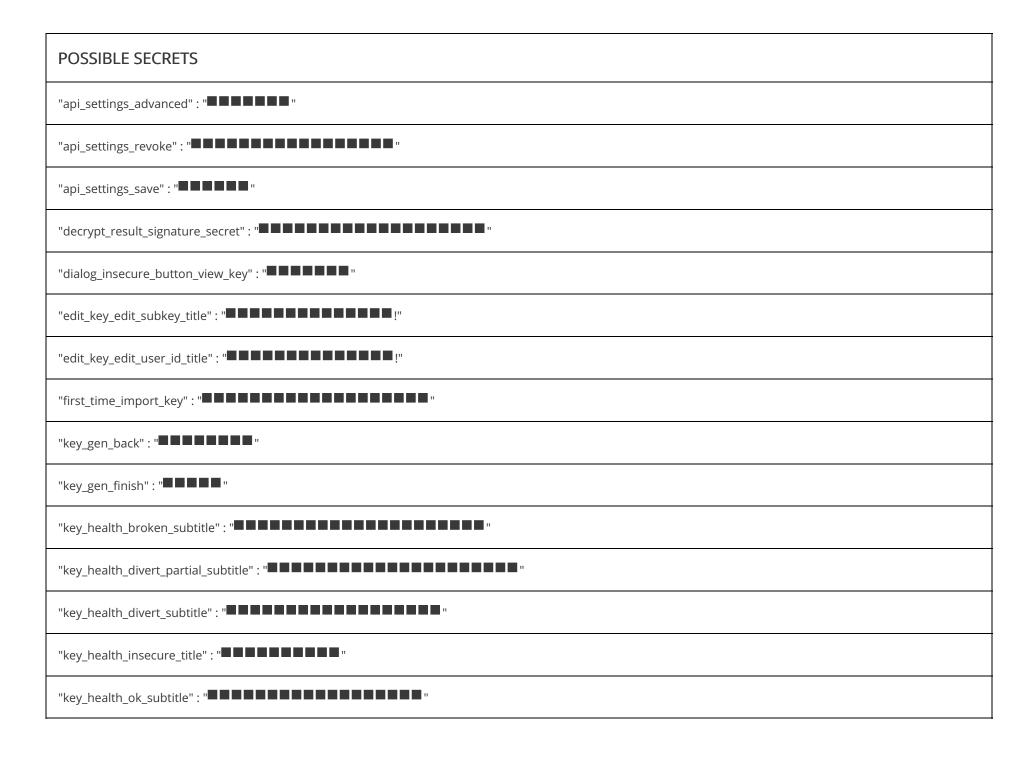






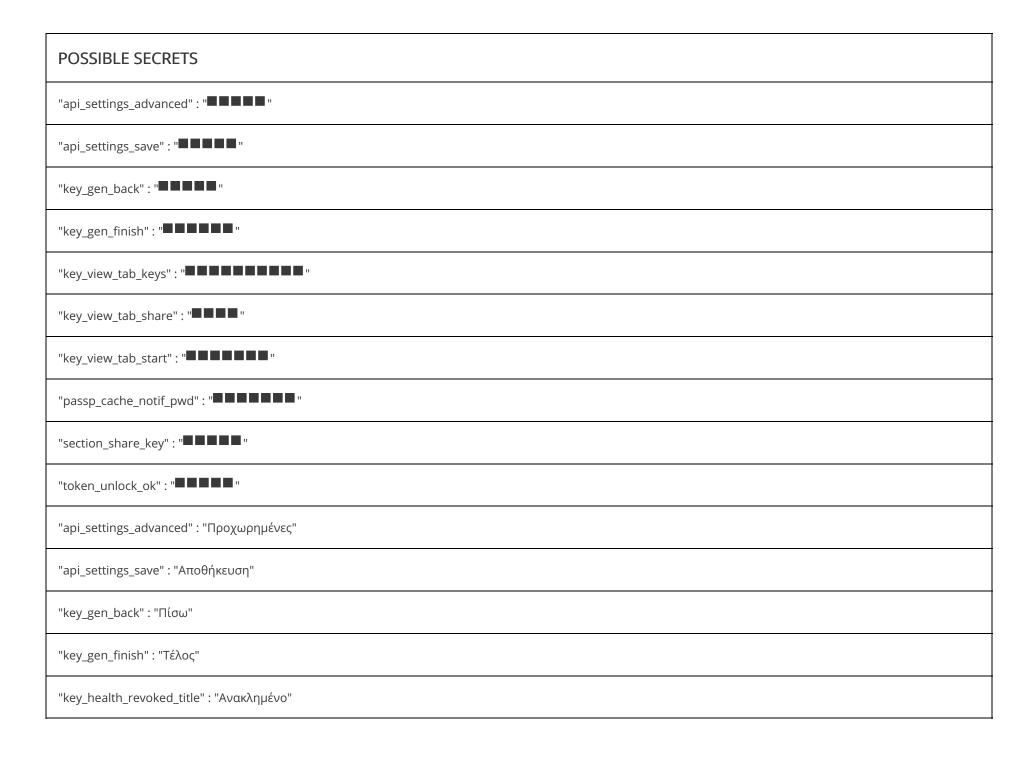


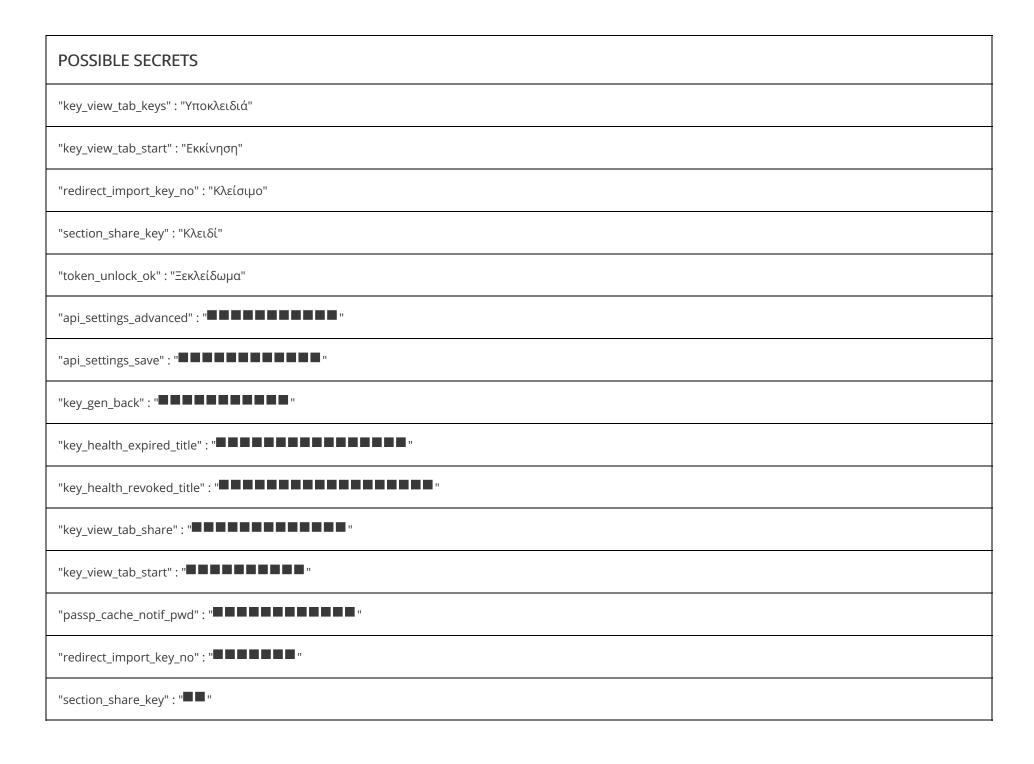


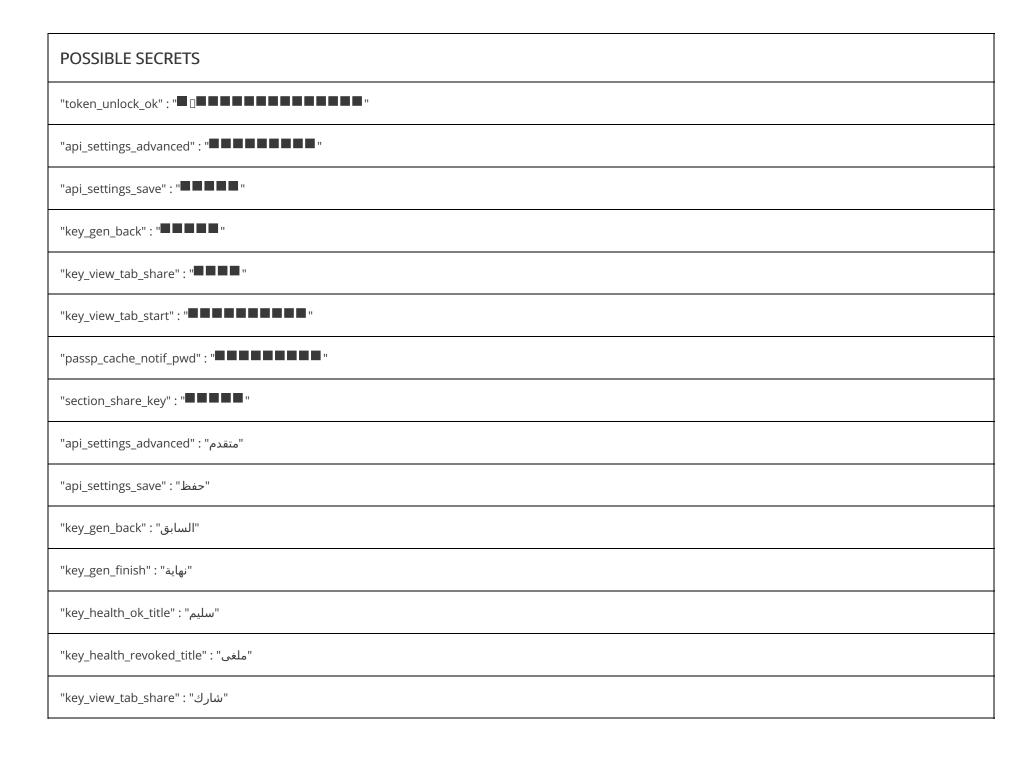


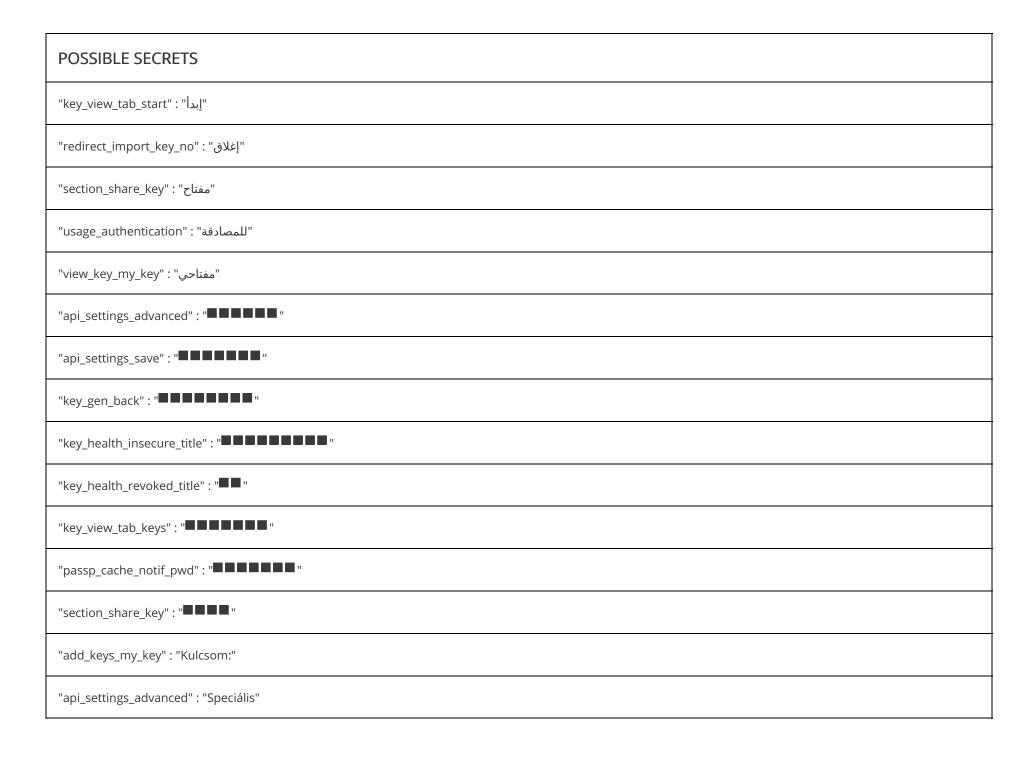
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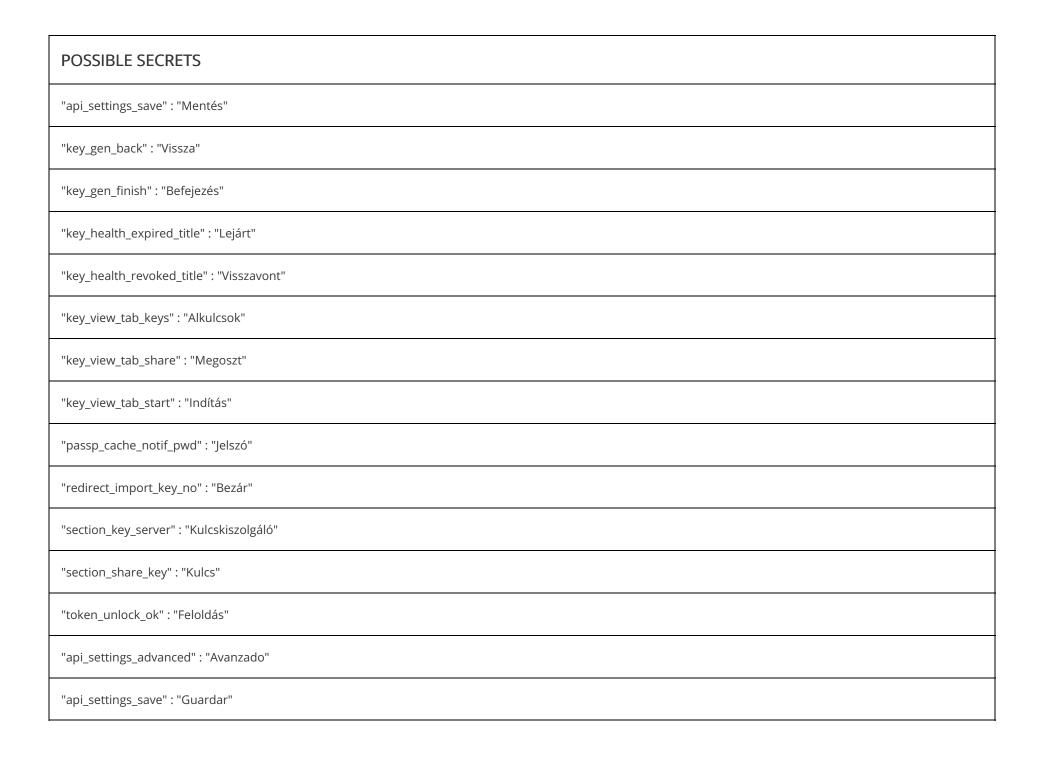
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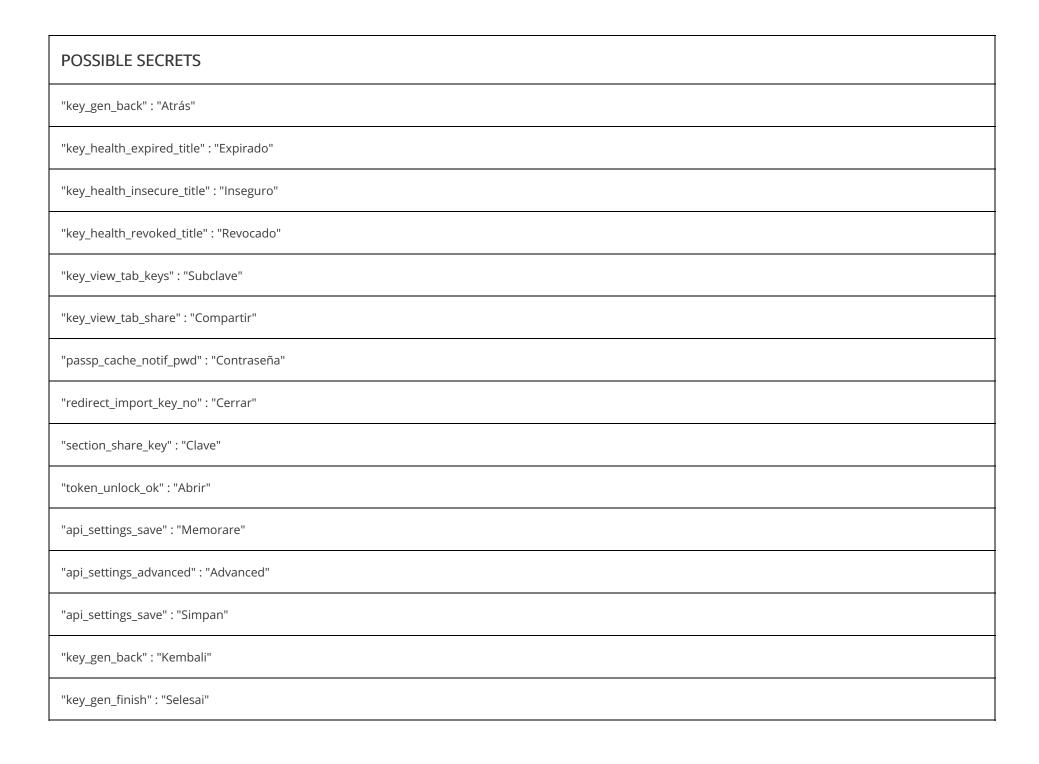


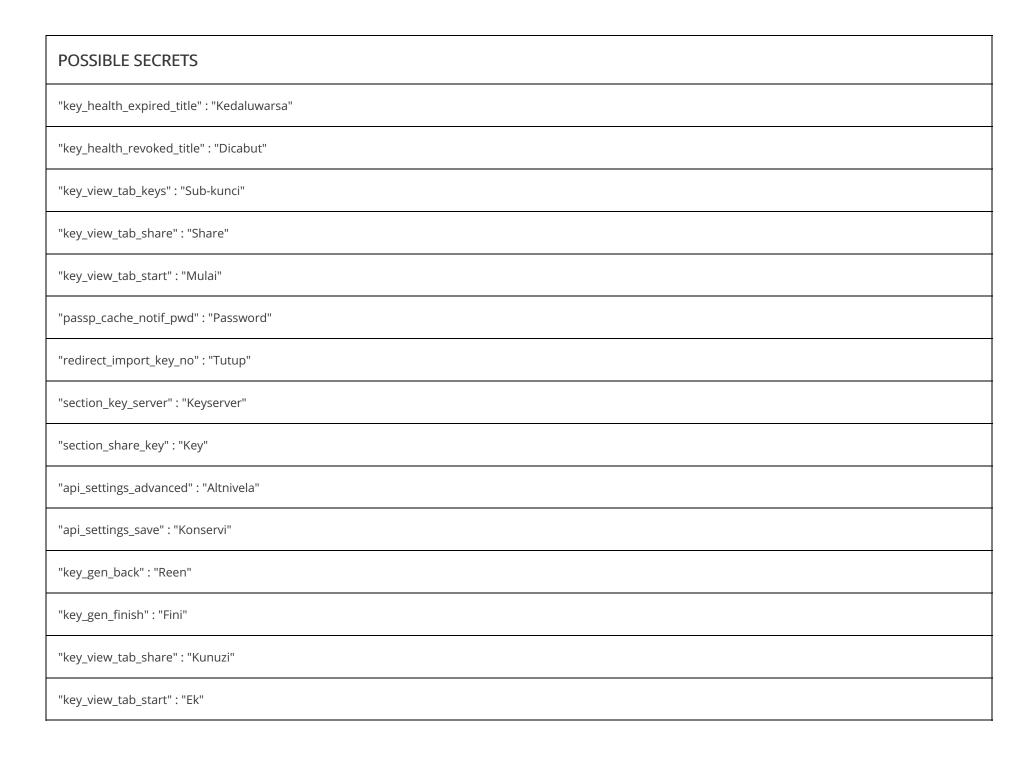


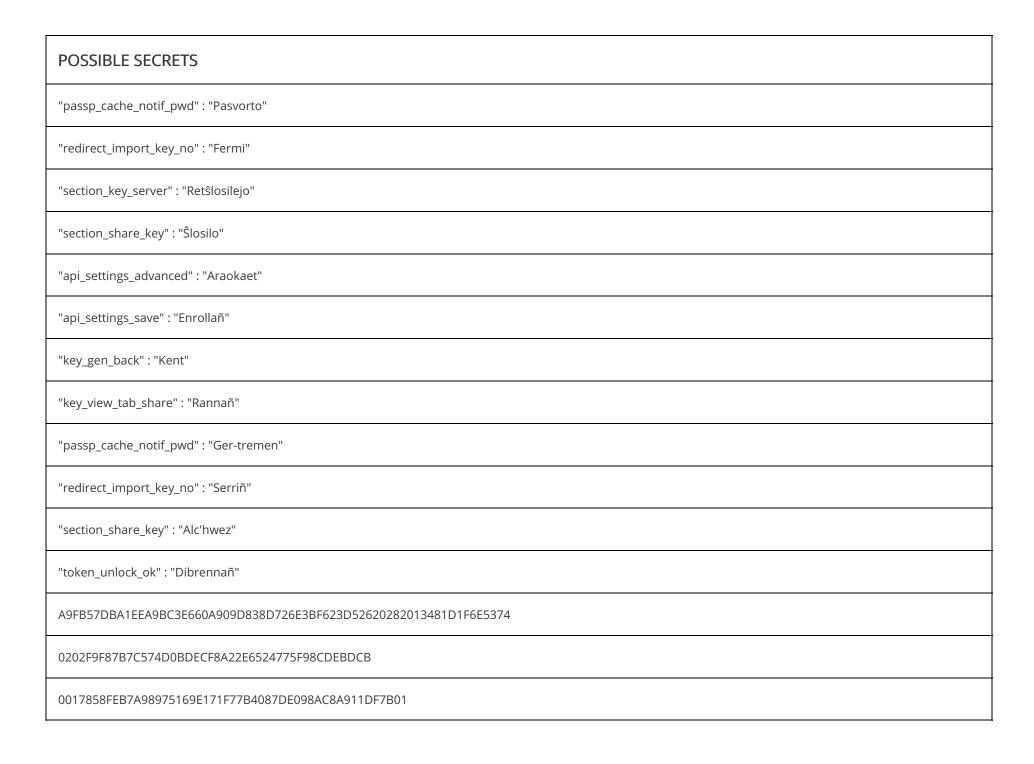












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> PLAYSTORE INFORMATION

Title: OpenKeychain: Easy PGP

Score: 3.99 Installs: 500,000+ Price: 0 Android Version Support: Category: Communication Play Store URL: org.sufficientlysecure.keychain

Developer Details: Hardware Security SDK, 6776671551970442053, None, https://www.openkeychain.org, play@openkeychain.org,

Release Date: Jan 16, 2013 Privacy Policy: Privacy link

Description:

OpenKeychain helps you communicate more privately and securely. It uses encryption to ensure that your messages can be read only by the people you send them to, others can send you messages that only you can read, and these messages can be digitally signed so the people getting them are sure who sent them. OpenKeychain is based on the well established OpenPGP standard making encryption compatible across your devices and systems. For a list of compatible software for Windows, Mac OS, and other operating systems consult http://openpgp.org/software/. Modern encryption is based on digital "keys". OpenKeychain stores and manages your keys, and those of the people you communicate with, on your Android smartphone. It also helps you find others' keys online, and exchange keys. But its most frequent use is in using those keys to encrypt and decrypt messages. ★ Integration with other Apps: • K-9 Mail • Conversations • and many more... ★ Open Source: OpenKeychain is designed to be trustworthy. It's Free Software with no secrets; anyone can examine and validate every bit of it (Source code available at https://github.com/open-keychain/openkeychain) ★ Independent Security Audit: The auditing company Cure53 performed an intensive security audit of OpenKeychain. The security experts summarize their final result with "[...] none of the spotted issues were considered to be of a critical severity in terms of security implications. The latter is a significant and impressive result for an app of this complexity and relevance." * Permissions: Because OpenKeychain is Free Software, anyone can validate that the permissions are indeed only required for the listed features. • In-app purchases: Donate to the developers • Identity: Pre-fill name and email addresses • Contacts: Connect keys to your contacts (only offline) • Photos/Media/Files: Import/export keys from SD card • Camera: Scan QR Codes to add other people's keys • Others: Internet permission to retrieve keys, NFC permission to use YubiKeys Starting with Android 6, permissions are requested when required in-app!



Timestamp	Event	Error
2025-08-01 01:16:45	Generating Hashes	ОК
2025-08-01 01:16:45	Extracting APK	ОК
2025-08-01 01:16:45	Unzipping	ОК
2025-08-01 01:16:46	Parsing APK with androguard	ОК
2025-08-01 01:16:50	Extracting APK features using aapt/aapt2	ОК
2025-08-01 01:16:51	Getting Hardcoded Certificates/Keystores	ОК
2025-08-01 01:17:03	Parsing AndroidManifest.xml	ОК
2025-08-01 01:17:03	Extracting Manifest Data	ОК
2025-08-01 01:17:03	Manifest Analysis Started	ОК
2025-08-01 01:17:03	Performing Static Analysis on: OpenKeychain (org.sufficientlysecure.keychain)	ОК

2025-08-01 01:17:04	Fetching Details from Play Store: org.sufficientlysecure.keychain	ОК
2025-08-01 01:17:04	Checking for Malware Permissions	ОК
2025-08-01 01:17:04	Fetching icon path	ОК
2025-08-01 01:17:04	Library Binary Analysis Started	OK
2025-08-01 01:17:04	Reading Code Signing Certificate	ОК
2025-08-01 01:17:07	Running APKiD 2.1.5	ОК
2025-08-01 01:17:12	Detecting Trackers	ОК
2025-08-01 01:17:15	Decompiling APK to Java with JADX	ОК
2025-08-01 01:18:44	Converting DEX to Smali	ОК
2025-08-01 01:18:44	Code Analysis Started on - java_source	ОК
2025-08-01 01:18:56	Android SBOM Analysis Completed	OK

2025-08-01 01:19:09	Android SAST Completed	ОК
2025-08-01 01:19:09	Android API Analysis Started	ОК
2025-08-01 01:19:18	Android API Analysis Completed	ОК
2025-08-01 01:19:18	Android Permission Mapping Started	ОК
2025-08-01 01:19:23	Android Permission Mapping Completed	ОК
2025-08-01 01:19:24	Android Behaviour Analysis Started	ОК
2025-08-01 01:19:30	Android Behaviour Analysis Completed	ОК
2025-08-01 01:19:30	Extracting Emails and URLs from Source Code	ОК
2025-08-01 01:19:32	Email and URL Extraction Completed	ОК
2025-08-01 01:19:32	Extracting String data from APK	ОК
2025-08-01 01:19:34	Extracting String data from Code	ОК

2025-08-01 01:19:34	Extracting String values and entropies from Code	ОК
2025-08-01 01:19:38	Performing Malware check on extracted domains	ОК
2025-08-01 01:19:43	Saving to Database	ОК

Report Generated by - MobSF v4.4.0 $\,$

Mobile Security Framework (MobSF) is an automated, all-in-one mobile application (Android/iOS/Windows) pen-testing, malware analysis and security assessment framework capable of performing static and dynamic analysis.

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