# IOS STATIC ANALYSIS REPORT

No icon

 $(PRODUCT_NAME)
(1.0)

| | |
|---|---|
| File Name: | Unsecured App.zip |
| Identifier: | $(PRODUCT_BUNDLE_IDENTIFIER) |
| Average CVSS Score: | 7.5 |
| App Security Score: | 85/100 (LOW RISK) |

# 📦 FILE INFORMATION

**File Name:** Unsecured App.zip
**Size:** 5.23MB
**MD5:** 2500d3c3520c3d39ffc2bc02274be564
**SHA1:** 64457cadad9195e429f992a34e8b719ccf9d83d2
**SHA256:** 7f6ae9405a2accf0e921021447af8d3289c15740e17f37c116c88f26d23e2921

# ℹ APP INFORMATION

**App Name:** $(PRODUCT_NAME)
**App Type:** Swift
**Identifier:** $(PRODUCT_BUNDLE_IDENTIFIER)
**SDK Name:**
**Version:** 1.0
**Build:** 1
**Platform Version:**
**Min OS Version:**
**Supported Platforms:**

# ☰ APPLICATION PERMISSIONS

| PERMISSIONS | STATUS | DESCRIPTION | REASON IN MANIFEST |
|-------------|--------|-------------|--------------------|

| PERMISSIONS | STATUS | DESCRIPTION | REASON IN MANIFEST |
|---|---|---|---|
| NSLocationWhenInUseUsageDescription | dangerous | Access location information when app is in the foreground. | Wyznaczanie lokalizacji |

## 🔒 APP TRANSPORT SECURITY (ATS)

| NO | ISSUE | STATUS | DESCRIPTION |
|---|---|---|---|
| 1 | NSExceptionDomains | info | tmdb.org, themoviedb.org |
| 2 | Insecure communication to tmdb.org is allowed | insecure | NSExceptionAllowsInsecureHTTPLoads allows insecure HTTP loads to tmdb.org, or to be able to loosen the server trust evaluation requirements for HTTPS connections to the domain. |
| 3 | NSIncludesSubdomains set to TRUE for tmdb.org | insecure | NSIncludesSubdomains applies the ATS exceptions for the given domain to all subdomains as well. For example, the ATS exceptions in the domain exception dictionary apply to tmdb.org, as well as math.tmdb.org, history.tmdb.org, and so on. Otherwise, if the value is NO, the exceptions apply only to tmdb.org. |
| 4 | NSExceptionRequiresForwardSecrecy set to NO for tmdb.org | insecure | NSExceptionRequiresForwardSecrecy limits the accepted ciphers to those that support perfect forward secrecy (PFS) through the Elliptic Curve Diffie-Hellman Ephemeral (ECDHE) key exchange. Set the value for this key to NO to override the requirement that a server must support PFS for the given domain. This key is optional. The default value is YES, which limits the accepted ciphers to those that support PFS through Elliptic Curve Diffie-Hellman Ephemeral (ECDHE) key exchange. |
| 5 | Insecure communication to themoviedb.org is allowed | insecure | NSExceptionAllowsInsecureHTTPLoads allows insecure HTTP loads to themoviedb.org, or to be able to loosen the server trust evaluation requirements for HTTPS connections to the domain. |

| NO | ISSUE | STATUS | DESCRIPTION |
|----|-------|--------|-------------|
| 6 | NSIncludesSubdomains set to TRUE for themoviedb.org | insecure | NSIncludesSubdomains applies the ATS exceptions for the given domain to all subdomains as well. For example, the ATS exceptions in the domain exception dictionary apply to themoviedb.org, as well as math.themoviedb.org, history.themoviedb.org, and so on. Otherwise, if the value is NO, the exceptions apply only to themoviedb.org. |
| 7 | NSExceptionRequiresForwardSecrecy set to NO for themoviedb.org | insecure | NSExceptionRequiresForwardSecrecy limits the accepted ciphers to those that support perfect forward secrecy (PFS) through the Elliptic Curve Diffie-Hellman Ephemeral (ECDHE) key exchange. Set the value for this key to NO to override the requirement that a server must support PFS for the given domain. This key is optional. The default value is YES, which limits the accepted ciphers to those that support PFS through Elliptic Curve Diffie-Hellman Ephemeral (ECDHE) key exchange. |

# </> CODE ANALYSIS

| NO | ISSUE | SEVERITY | STANDARDS | FILES |
|----|-------|----------|-----------|-------|
| 1 | The App logs information. Sensitive information should never be logged. | info | **CVSS V2:** 7.5 (high)<br>CWE: CWE-532<br>OWASP MASVS: MSTG-STORAGE-3 | Unsecured App/Views/ProfileView/ProfileViewController.swift<br>Unsecured App/Views/MovieDetailsView/MovieDetailsViewController.swift<br>Unsecured App/Views/HomeView/HomeViewController.swift<br>Unsecured App/Views/SearchView/SearchViewController.swift |
| 2 | Files may contain hardcoded sensitive informations like usernames, passwords, keys etc. | high | **CVSS V2:** 7.4 (high)<br>CWE: CWE-312 Cleartext Storage of Sensitive Information<br>OWASP Top 10: M9: Reverse Engineering<br>OWASP MASVS: MSTG-STORAGE-14 | Unsecured App/Managers/Configurator/Configurator.swift |

# 🔍 DOMAIN MALWARE CHECK

| DOMAIN | STATUS | GEOLOCATION |
|---|---|---|
| image.tmdb.org | good | **IP:** 54.192.30.128<br>**Country:** United States of America<br>**Region:** Virginia<br>**City:** Dulles<br>**Latitude:** 38.951668<br>**Longitude:** -77.448059<br>**View:** [Google Map](#) |
| api.themoviedb.org | good | **IP:** 204.246.190.74<br>**Country:** Germany<br>**Region:** Hessen<br>**City:** Frankfurt am Main<br>**Latitude:** 50.11552<br>**Longitude:** 8.68417<br>**View:** [Google Map](#) |
| www.gravatar.com | good | **IP:** 192.0.73.2<br>**Country:** United States of America<br>**Region:** California<br>**City:** San Francisco<br>**Latitude:** 37.748425<br>**Longitude:** -122.413673<br>**View:** [Google Map](#) |

# 🌐 URLS

| URL | FILE |
|---|---|
| http://api.themoviedb.org/3/<br>http://image.tmdb.org/t/p/w780<br>http://image.tmdb.org/t/p/original<br>www.gravatar.com/avatar/ | Unsecured App/Managers/Configurator/Configurator.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Models/._MoviesImages.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Models/._Movie.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Models/._Avatar.swift |

| URL | FILE |
|---|---|
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Models/._DeleteSession.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Networking/Manager/._NetworkManager.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Networking/EndPoint/._MovieService.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Networking/EndPoint/._AccountService.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Networking/EndPoint/._AuthenticationService.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Networking/Service/._Parameters.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Networking/Service/._HTTPTask.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Networking/Service/._HTTPMethod.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Networking/Service/._HTTPHeaders.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Networking/Service/._EndPointType.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Managers/LocationManager/._LocationManager.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Views/HomeView/._HomeViewController.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Views/ImageViewer/._ImageViewer.swift |
| data:kMDLabel_22h254szpzr7wt2fx5ytpetrkq | __MACOSX/Unsecured App/Views/MovieLoading/._MovieLoadingView.swift |

## App Security Score Calculation

Every app is given an ideal score of 100 to begin with.

For every findings with severity high we reduce 15 from the score.

For every findings with severity warning we reduce 10 from the score.

For every findings with severity good we add 5 to the score.

If the calculated score is greater than 100, then the app security score is considered as 100.

And if the calculated score is less than 0, then the app security score is considered as 10.

## Risk Calculation

| APP SECURITY SCORE | RISK |
|---|---|
| 0 - 15 | CRITICAL |
| 16 - 40 | HIGH |
| 41 - 70 | MEDIUM |
| 71 - 100 | LOW |

## Report Generated by - MobSF v3.3.1 Beta

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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