

```
// AFSecurityPolicy.h
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Foundation ( http://alamofire.org/ )
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#import <Foundation/Foundation.h>
#import <Security/Security.h>

typedef NS_ENUM(NSUInteger, AFSSLPinningMode) {
```

```

        AFSSLPinningModeNone,
        AFSSLPinningModePublicKey,
        AFSSLPinningModeCertificate,
    };

    /**
     * `AFSecurityPolicy` evaluates server trust
     against pinned X.509 certificates and public keys
     over secure connections.

     Adding pinned SSL certificates to your app helps
     prevent man-in-the-middle attacks and other
     vulnerabilities. Applications dealing with
     sensitive customer data or financial information
     are strongly encouraged to route all
     communication over an HTTPS connection with SSL
     pinning configured and enabled.
    */

```

NS\_ASSUME\_NONNULL\_BEGIN

```

@interface AFSecurityPolicy : NSObject
<NSSecureCoding, NSCopying>

```

```

    /**
     The criteria by which server trust should be
     evaluated against the pinned SSL certificates.
     Defaults to `AFSSLPinningModeNone`.
    */

```

```

@property (readonly, nonatomic, assign)
AFSSLPinningMode SSLPinningMode;

```

```

    /**
     The certificates used to evaluate server trust
     according to the SSL pinning mode.

```

By default, this property is set to any  
(`.cer`) certificates included in the target  
compiling AFNetworking. Note that if you are  
using AFNetworking as embedded framework, no  
certificates will be pinned by default. Use

`certificatesInBundle` to load certificates from your target, and then create a new policy by calling  
`policyWithPinningMode:withPinnedCertificates`.

Note that if pinning is enabled, `evaluateServerTrust:forDomain:` will return true if any pinned certificate matches.

```
*/
@property (nonatomic, strong, nullable) NSSet
<NSData *> *pinnedCertificates;

/**
 Whether or not to trust servers with an invalid
 or expired SSL certificates. Defaults to `NO`.
 */
@property (nonatomic, assign) BOOL
allowInvalidCertificates;

/**
 Whether or not to validate the domain name in
 the certificate's CN field. Defaults to `YES`.
 */
@property (nonatomic, assign) BOOL
validatesDomainName;

///-----
/// @name Getting Certificates from the Bundle
///-----

/**
 Returns any certificates included in the bundle.
 If you are using AFNetworking as an embedded
 framework, you must use this method to find the
 certificates you have included in your app
 bundle, and use them when creating your security
 policy by calling
 `policyWithPinningMode:withPinnedCertificates`.

 @return The certificates included in the given
```

```

bundle.
*/
+ (NSSet <NSData *> *)certificatesInBundle:
(NSBundle *)bundle;

///-----
/// @name Getting Specific Security Policies
///-----

/**
 Returns the shared default security policy,
 which does not allow invalid certificates,
 validates domain name, and does not validate
 against pinned certificates or public keys.

 @return The default security policy.
 */
+ (instancetype)defaultPolicy;

///-----
/// @name Initialization
///-----

/**
 Creates and returns a security policy with the
 specified pinning mode.

 @param pinningMode The SSL pinning mode.

 @return A new security policy.
 */
+ (instancetype)policyWithPinningMode:
(AFSSLPinningMode)pinningMode;

/**
 Creates and returns a security policy with the
 specified pinning mode.

 @param pinningMode The SSL pinning mode.
 @param pinnedCertificates The certificates to
 pin against.

```

```

    @return A new security policy.
    */
+ (instancetype)policyWithPinningMode:
  (AFSSLPinningMode)pinningMode
withPinnedCertificates:(NSSet <NSData *>
*)pinnedCertificates;

///-----
/// @name Evaluating Server Trust
///-----

/**
 Whether or not the specified server trust should
 be accepted, based on the security policy.

 This method should be used when responding to an
 authentication challenge from a server.

 @param serverTrust The X.509 certificate trust
 of the server.
 @param domain The domain of serverTrust. If
 `nil`, the domain will not be validated.

 @return Whether or not to trust the server.
 */
- (BOOL)evaluateServerTrust:
  (SecTrustRef)serverTrust
      forDomain:(nullable NSString
*)domain;

@end

NS_ASSUME_NONNULL_END

///-----
/// @name Constants
///-----

/**
 ## SSL Pinning Modes

```

The following constants are provided by  
`AFSSLPinningMode` as possible SSL pinning modes.

```
enum {  
    AFSSLPinningModeNone,  
    AFSSLPinningModePublicKey,  
    AFSSLPinningModeCertificate,  
}
```

`AFSSLPinningModeNone`  
Do not use pinned certificates to validate  
servers.

`AFSSLPinningModePublicKey`  
Validate host certificates against public keys  
of pinned certificates.

`AFSSLPinningModeCertificate`  
Validate host certificates against pinned  
certificates.

\*/