Settings

This is a reference for the user-specific configuration for Maven.

Includes things that should not be distributed with the `pom.xml` file, such as developer identity, along with local settings, like proxy information.

The default location for the user settings file is `~/.m2/settings.xml`

```xml
<settings xmlns="http://maven.apache.org/SETTINGS/1.2.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.2.0 http://maven.apache.org/xsd/settings-1.2.0.xsd">
 <localRepository/>
 <interactiveMode/>
 <usePluginRegistry/>
 <offline/>

 <proxies>
   <proxy>
     <active/>
     <protocol/>
     <username/>
     <password/>
     <port/>
     <host/>
     <nonProxyHosts/>
     <id/>
   </proxy>
 </proxies>

 <servers>
   <server>
     <username/>
     <password/>
     <privateKey/>
     <passphrase/>
     <filePermissions/>
     <directoryPermissions/>
     <configuration/>
     <id/>
   </server>
 </servers>

 <mirrors>
   <mirror>
     <mirrorOf/>
     <name/>
     <url/>
     <layout/>
     <mirrorOfLayouts/>
     <blocked/>
     <id/>
   </mirror>
 </mirrors>

 <profiles>
   <profile>
     <activation>
       <activeByDefault/>
       <jdk/>
       <os>
         <name/>
         <family/>
         <arch/>
         <version/>
       </os>
       <property>
         <name/>
         <value/>
       </property>
       <file>
```

```
          <missing/>
          <exists/>
        </file>
      </activation>
      <properties>
        <key>value</key>
      </properties>

      <repositories>
        <repository>
          <releases>
            <enabled/>
            <updatePolicy/>
            <checksumPolicy/>
          </releases>
          <snapshots>
            <enabled/>
            <updatePolicy/>
            <checksumPolicy/>
          </snapshots>
          <id/>
          <name/>
          <url/>
          <layout/>
        </repository>
      </repositories>
      <pluginRepositories>
        <pluginRepository>
          <releases>
            <enabled/>
            <updatePolicy/>
            <checksumPolicy/>
          </releases>
          <snapshots>
            <enabled/>
            <updatePolicy/>
            <checksumPolicy/>
          </snapshots>
          <id/>
          <name/>
          <url/>
          <layout/>
        </pluginRepository>
      </pluginRepositories>
      <id/>
    </profile>
  </profiles>

  <activeProfiles/>
  <pluginGroups/>
</settings>
```

settings

Root element of the user configuration file.

Element	Type	Description
localRepository	String	The local repository. **Default value is:** ${user.home}/.m2/repository
interactiveMode	boolean	Whether Maven should attempt to interact with the user for input. **Default value**: true
usePluginRegistry	boolean	Whether Maven should use the plugin-registry.xml file to manage plugin versions. **Default value**: false

		Indicate whether maven should operate in offline mode full-time.
offline	boolean	
		Default value: false
proxies/[proxy](#)*	List<Proxy>	**(Many)** Configuration for different proxy profiles. Multiple proxy profiles might come in handy for anyone working from a notebook or other mobile platform, to enable easy switching of entire proxy configurations by simply specifying the profile id, again either from the command line or from the defaults section below.
servers/[server](#)*	List<Server>	**(Many)** Configuration of server-specific settings, mainly authentication method. This allows configuration of authentication on a per-server basis.
mirrors/[mirror](#)*	List<Mirror>	**(Many)** Configuration of download mirrors for repositories.
profiles/[profile](#)*	List<Profile>	**(Many)** Configuration of build profiles for adjusting the build according to environmental parameters.
activeProfiles/activeProfile*	List<String>	**(Many)** List of manually-activated build profiles, specified in the order in which they should be applied.
pluginGroups/pluginGroup*	List<String>	**(Many)** List of groupIds to search for a plugin when that plugin groupId is not explicitly provided.

proxy

The <proxy> element contains informations required to a proxy settings.

Element	Type	Description
active	boolean	Whether this proxy configuration is the active one.
		Default value: true
protocol	String	The proxy protocol.
		Default value: http
username	String	The proxy user.
password	String	The proxy password.
port	int	The proxy port.
		Default value: 8080
host	String	The proxy host.
nonProxyHosts	String	The list of non-proxied hosts (delimited by |).
id	String	Item identifier.
		Default value: default

server

The <server> element contains informations required to a server settings.

Element	Type	Description
username	String	The username used to authenticate.
password	String	The password used in conjunction with the username to authenticate.
privateKey	String	The private key location used to authenticate.
passphrase	String	The passphrase used in conjunction with the privateKey to authenticate.
filePermissions	String	The permissions for files when they are created.
directoryPermissions	String	The permissions for directories when they are created.
configuration	DOM	Extra configuration for the transport layer.
id	String	Item identifier.
		Default value: default

mirror

A download mirror for a given repository.

Element	Type	Description

		A repository id or (since Maven 2.0.9) an expression matching one or many repository ids to mirror, e.g., `central` or `*,!repo1`. `*` (since Maven 2.0.5), `external:*` (since Maven 2.0.9) and `external:http:*` (since Maven 3.8.0) have a special meaning: see [Mirror Settings](#) guide.
`mirrorOf`	`String`	
`name`	`String`	The optional name that describes the mirror.
`url`	`String`	The URL of the mirror repository.
`layout`	`String`	The layout of the mirror repository. **Since**: Maven 3 **Default value**: `default`
`mirrorOfLayouts`	`String`	The layouts of repositories being mirrored. This value can be used to restrict the usage of the mirror to repositories with a matching layout (apart from a matching id). **Since**: Maven 3 **Default value**: `default,legacy`
`blocked`	`boolean`	Whether this mirror should be blocked from any download request but fail the download process, explaining why. **Default value is**: `false` **Since**: Maven 3.8.0 **Default value**: `false`
`id`	`String`	Item identifier. **Default value**: `default`

profile

Modifications to the build process which is keyed on some sort of environmental parameter.

Element	Type	Description
[activation](#)	`Activation`	The conditional logic which will automatically trigger the inclusion of this profile.
`properties/`*key=value*`*`	`Properties`	**(Many)** Extended configuration specific to this profile goes here. Contents take the form of `<property.name>property.value</property.name>`
`repositories/`[repository](#)`*`	`List<Repository>`	**(Many)** The lists of the remote repositories.
`pluginRepositories/`[pluginRepository](#)`*`	`List<Repository>`	**(Many)** The lists of the remote repositories for discovering plugins.
`id`	`String`	Item identifier. **Default value**: `default`

activation

The conditions within the build runtime environment which will trigger the automatic inclusion of the parent build profile.

Element	Type	Description
`activeByDefault`	`boolean`	Flag specifying whether this profile is active as a default. **Default value**: `false`
`jdk`	`String`	Specifies that this profile will be activated when a matching JDK is detected.
[os](#)	`ActivationOS`	Specifies that this profile will be activated when matching OS attributes are detected.
[property](#)	`ActivationProperty`	Specifies that this profile will be activated when this property is specified.
[file](#)	`ActivationFile`	Specifies that this profile will be activated based on existence of a file.

os

This is an activator which will detect an operating system's attributes in order to activate its profile.

Element	Type	Description
`name`	`String`	The name of the OS to be used to activate a profile.
`family`	`String`	The general family of the OS to be used to activate a profile (e.g. 'windows')

Element	Type	Description
arch	String	The architecture of the OS to be used to activate a profile.
version	String	The version of the OS to be used to activate a profile.

property

This is the property specification used to activate a profile. If the value field is empty, then the existence of the named property will activate the profile, otherwise it does a case-sensitive match against the property value as well.

Element	Type	Description
name	String	The name of the property to be used to activate a profile.
value	String	The value of the property to be used to activate a profile.

file

This is the file specification used to activate a profile. The missing value will be a the location of a file that needs to exist, and if it doesn't the profile must run. On the other hand exists will test for the existence of the file and if it is there will run the profile.

Element	Type	Description
missing	String	The name of the file that should be missing to activate a profile.
exists	String	The name of the file that should exist to activate a profile.

repository

Repository contains the information needed for establishing connections with remote repository

Element	Type	Description
[releases](#)	RepositoryPolicy	How to handle downloading of releases from this repository
[snapshots](#)	RepositoryPolicy	How to handle downloading of snapshots from this repository
id	String	A unique identifier for a repository.
name	String	Human readable name of the repository.
url	String	The url of the repository.
layout	String	The type of layout this repository uses for locating and storing artifacts - can be "legacy" or "default". **Default value**: `default`

releases

Download policy

Element	Type	Description
enabled	boolean	Whether to use this repository for downloading this type of artifact. **Default value**: `true`
updatePolicy	String	The frequency for downloading updates - can be "always", "daily" (default), "interval:XXX" (in minutes) or "never" (only if it doesn't exist locally).
checksumPolicy	String	What to do when verification of an artifact checksum fails - warn, fail, etc. Valid values are "fail" or "warn".

snapshots

Download policy

Element	Type	Description
enabled	boolean	Whether to use this repository for downloading this type of artifact. **Default value**: `true`
updatePolicy	String	The frequency for downloading updates - can be "always", "daily" (default), "interval:XXX" (in minutes) or "never" (only if it doesn't exist locally).
checksumPolicy	String	What to do when verification of an artifact checksum fails - warn, fail, etc. Valid values are "fail" or "warn".

pluginRepository

Repository contains the information needed for establishing connections with remote repository

Element	Type	Description
[releases](#)	RepositoryPolicy	How to handle downloading of releases from this repository
[snapshots](#)	RepositoryPolicy	How to handle downloading of snapshots from this repository
id	String	A unique identifier for a repository.
name	String	Human readable name of the repository.
url	String	The url of the repository.
layout	String	The type of layout this repository uses for locating and storing artifacts - can be "legacy" or "default". **Default value**: `default`