Web.config Password Options

```
<membership defaultProvider="SqlProvider" userIsOnlineTimeWindow="20">
        <providers>
                <remove name="AspNetSqlProvider" />
                        <add name="SqlProvider"
                        type="System.Web.Security.SqlMembershipProvider"
                        connectionStringName="RayflowSqlServer"
                        enablePasswordRetrieval="false" enablePasswordReset="true"
                        requiresQuestionAndAnswer="false" passwordFormat="Hashed"
                        passwordStrengthRegularExpression="(?=^.{6,15}$)(?=.*\d)(?=.*
                        \W+)(?![.\n])(?=.*[a-zA-Z]).*$"
                        minRequiredNonalphanumericCharacters="1"
                        minRequiredPasswordLength="6" applicationName="/" />
        </providers>
</membership>
```

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userIsOnlineTimeWindow="20"

> *The number of minutes after the last-activity date/time stamp for a user during which the user is considered online.*

enablePasswordRetrieval="false"

> *If the password format is set to Hashed, then users will not be able to retrieve their existing password from the database.*

enablePasswordReset="true"

> *Password reset is the ability for ASP.NET membership to replace the current password for a user name with a new, randomly generated password when a user has forgotten their password or the current password is no longer valid.*
>
> *This is especially useful when password format is set to Hashed, as users cannot retrieve hashed password values.*

requiresQuestionAndAnswer="false"

Requiring a password question and answer provides an additional layer of security when retrieving or resetting a user's password.

Users can supply a question and answer when their user name is created that they can later use to retrieve or reset a forgotten password.

passwordFormat="Hashed"

Clear Passwords are not encrypted.

Encrypted Passwords are encrypted using the encryption settings determined by the machineKey Element (ASP.NET Settings Schema) element configuration.

Hashed Passwords are encrypted one-way using the SHA1 hashing algorithm. You can specify a hashing algorithm different than the SHA1 algorithm using the hashAlgorithmType attribute.

passwordStrengthRegularExpression="(?=^.{6,15}$)(?=.*\d)(?=.*\W+)(?![.\n])(?=.*[a-zA-Z]).*$"

A regular expression used to evaluate a password.

(?= subexpression)

Zero-width positive lookahead. Look ahead of the current position to determine whether subexpression matches the input string.

(?! subexpression)

Zero-width negative lookahead. Look ahead of the current position to determine whether subexpression does not match the input string.

(?=^.{6,15}$)	Begin the match at the beginning of the input string. String must be a minimum of 6 and a maximum of 15 characters. End the match at the end of the input string.
(?=.*\d)	Match zero or more decimal digits.
(?=.*\W+)	Match one or more non-word characters.
(?![.\n])	Does not match a newline character.
(?=.*[a-zA-Z])	Match zero or more a-z or A-Z characters.
.*$	End the match at the end of the input string.

minRequiredNonalphanumericCharacters="1"

The minimum number of special characters that must be present in a valid password.

minRequiredPasswordLength="6"

The minimum length required for a password.

applicationName="/"

The ApplicationName is used to identify users specific to an application.

That is, the same user name can exist in the database for multiple ASP.NET applications that specify a different ApplicationName.

When no applicationName attribute is configured, ASP.NET uses the application vroot path within the web-server to automatically calculate the applicationName to use when adding data to an ASP.NET Application Service database.

Microsoft reference =

https://msdn.microsoft.com/en-us/library/System.Web.Security.Membership_properties(v=vs.110).aspx

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Current password strength requirements:

Must be a minimum of 6 and a maximum of 15 characters.

Must have at least one special character.

Can have one or more decimal digits.

Can have one or more lowercase or uppercase characters.