

SELF-HOSTING

# Configure Environment Variables

## Configure Environment Variables

Some features of Bitwarden are not configured by the `bitwarden.sh` installer. Configure these settings by editing the environment file, located at `./bwdata/env/global.override.env`. This `.env` file comes pre-baked with configurable variables (see [Included variables](#)), however there are additional variables which can be manually added (see [Optional variables](#)).

Whenever you make changes to `global.override.env`, perform a `./bitwarden.sh restart` to apply your changes.

### Note

This article will not define every environment variable, instead focusing on those used or configured by most installations.

## Included variables

The following variables are among those that already exist in `global.override.env`:

Variable	Description
<code>globalSettings__baseServiceUri__vault=</code>	Enter the domain of your Bitwarden instance. If not configured, domain will default to localhost. Must not include a trailing slash.
<code>globalSettings__sqlServer__connectionString=</code>	Use this field to <a href="#">connect to an external MSSQL database</a> .
<code>globalSettings__oidcIdentityClientKey=</code>	A randomly generated OpenID Connect client key. For more information, see <a href="#">OpenID Documentation</a> .
<code>globalSettings__duo__aKey=</code>	A randomly generated Duo akey. For more information, see <a href="#">Duo's Documentation</a> .
<code>globalSettings__yubico__clientId=</code>	Client ID for YubiCloud Validation Service or self-hosted Yubico Validation Server.  If YubiCloud, get your client ID and secret key <a href="#">here</a> .  If self-hosted, see optional variable <code>globalSettings__yubico__validationUrls</code> .
<code>globalSettings__yubico__key=</code>	Secret Key for YubiCloud Validation Service or self-hosted Yubico Validation Server.  If YubiCloud, get your client ID and secret key <a href="#">here</a> .

Variable	Description
globalSettings__mail__replyToEmail=	If self-hosted, see optional variable <code>globalSettings__yubico__validationUrls</code> .
globalSettings__mail__smtp__host=	Email address used for invitations, typically <code>no_reply@smtp__host</code> .
globalSettings__mail__smtp__port=	Your SMTP server hostname (recommended) or IP address.
globalSettings__mail__smtp__ssl=	The SMTP port used by the SMTP server.
globalSettings__mail__smtp__username=	(Boolean) Whether your SMTP server uses an encryption protocol: <code>true</code> = SSL <code>false</code> = TLS
globalSettings__mail__smtp__password=	A valid username for the <code>smtp__host</code> .
globalSettings__disableUserRegistration=	A valid password for the <code>smtp__host</code> . Dollar sign <code>\$</code> characters are not supported in SMTP passwords.
globalSettings__hibpApiKey=	Specify <code>true</code> to disable new users signing up for an account on this instance via the registration page.
adminSettings__admins=	Your HavelBeenPwned (HIBP) API Key, available <a href="#">here</a> . This key allows users to run the <a href="#">Data Breach report</a> and to check their master password for presence in breaches when they create an account.
	Email addresses which may access the <a href="#">System Administrator Portal</a> .

## Optional variables

The following variables do not already exist in `global.override.env`, and can be manually added:

Variable	Description
<code>globalSettings__logDirectory=</code>	Specifies the directory to save container log file output to. By default, <code>globalSettings__logDirectory=bwdata/logs</code> .
<code>globalSettings__logRollBySizeLimit=</code>	Specify the size limit in bytes to use for container log files (for example, <code>globalSettings__logRollBySizeLimit=1073741824</code> ).
<code>globalSettings__syslog__destination=</code>	Specify a syslog server or endpoint to send container log output to (for example, <code>globalSettings__syslog__destination=udp://example.com:514</code> ).
<code>globalSettings__mail__smtp__trustServer=</code>	Specify <code>true</code> to explicitly trust the certificate presented by the SMTP server ( <b>not recommended for production</b> ).
<code>globalSettings__mail__smtp__sslOverride=</code>	Specify <code>true</code> to use SSL (not TLS) on port 25.
<code>globalSettings__mail__smtp__startTls=</code>	Specify <code>true</code> to force STARTTLS (Opportunistic TLS).
<code>globalSettings__organizationInviteExpirationHours=</code>	Specify the number of hours after which an organization invite will expire ( <code>120</code> by default).
<code>globalSettings__yubico__validationUrls__0=</code>	Primary URL for self-hosted Yubico Validation Server. For example:  <code>=https://your.url.com/wsapi/2.0/verify</code>  Add additional validation server URLs by creating incremented environment variables, for example  <code>globalSettings__yubico__validationUrls__1=,globalSettings__yubico__validationUrls__2=</code>

**Variable**

globalSettings\_\_enableCloudCommunication=

**Description**

Set to **true** to allow communication between your server and our cloud system. Doing so [enables billing and license sync](#).

adminSettings\_\_deleteTrashDaysAgo=

Specify the number of days after which to permanently delete items from the trash. By default, **adminSettings\_\_deleteTrashDaysAgo=30**.

globalSettings\_\_sso\_\_enforceSsoPolicyForAllUsers=

Specify **true** to enforce the [Require SSO authentication](#) policy for owner and admin roles.

globalSettings\_\_baseServiceUri\_\_cloudRegion=

Specify **US** or **EU** to designate [which cloud server](#) your self-hosted server should hyperlink to.

If you're using EU, you'll also need to setup a few other variables as documented [here](#).

globalSettings\_\_sqlServer\_\_DisableDatabaseMaintenanceJobs=

Specify **true** to skip application-side maintenance of the statistics and index rebuild tasks in the database.

These tasks require elevated MSSQL privileges and should be reconfigured to run as a database user if this value is set to **true**.

[Learn more.](#)

globalSettings\_\_sqlServer\_\_SkipDatabasePreparation=

Specify **true** to skip application-side database preparation. If not specified, database preparation checks on installation whether a database with the name specified in **globalSettings\_\_sqlServer\_\_connectionString=** exists and, if not, creates one.

This task requires elevated MSSQL privileges and, if this value is set to **true**, the named database must exist before initiating installation.

[Learn more.](#)