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Configuration

CTFd provides a number of configuration options which are used to configure server behavior. CTFd makes a distinction between configuration values which can be configured only with server-level access and values which can be configured by those with administrative privileges on CTFd.

Server Level Configuration

Server level configuration can be modified from the `config.ini` file in CTFd.

SECRET_KEY

The secret value used to create sessions and sign strings. This should be set to a random string. In the interest of ease, CTFd will automatically create a secret key file for you. If you wish to add this secret key to your instance you should hard code this value to a random static value.

You can also remove `.ctfd_secret_key` from the `.gitignore` file and commit this file into whatever repository you are using.

<http://flask.pocoo.org/docs/latest/quickstart/#sessions>

DATABASE_URL

The URI that specifies the username, password, hostname, port, and database of the server used to hold the CTFd database.

e.g. `mysql+pymysql://root:<YOUR_PASSWORD_HERE>@localhost/ctfd`

REDIS_URL

The URI to connect to a Redis server.

Server Level Configuration

SECRET_KEY

DATABASE_URL

REDIS_URL

MAILFROM_ADDR

MAIL_SERVER

MAIL_PORT

MAIL_USEAUTH

MAIL_USERNAME

MAIL_PASSWORD

MAIL_TLS

MAIL_SSL

MAILGUN_API_KEY

MAILGUN_BASE_URL

LOG_FOLDER

UPLOAD_PROVIDER

UPLOAD_FOLDER

AWS_ACCESS_KEY_ID

AWS_SECRET_ACCESS_KEY

AWS_S3_BUCKET

AWS S3 ENDPOINT URL

e.g. `redis://user:password@localhost:6379`

<http://pythonhosted.org/Flask-Caching/#configuring-flask-caching>

MAILFROM_ADDR

The email address that emails are sent from if not overridden in the configuration panel.

MAIL_SERVER

The mail server that emails are sent from if not overridden in the configuration panel.

MAIL_PORT

The mail port that emails are sent from if not overridden in the configuration panel.

MAIL_USEAUTH

Whether or not to use username and password to authenticate to the SMTP server

MAIL_USERNAME

The username used to authenticate to the SMTP server if MAIL_USEAUTH is defined

MAIL_PASSWORD

The password used to authenticate to the SMTP server if MAIL_USEAUTH is defined

MAIL_TLS

Whether to connect to the SMTP server over TLS

MAIL_SSL

Whether to connect to the SMTP server over SSL

MAILGUN_API_KEY

Mailgun API key to send email over Mailgun. As of CTFd v3, Mailgun integration is deprecated. Installations using the Mailgun API should migrate over to SMTP settings.

MAILGUN_BASE_URL

Mailgun base url to send email over Mailgun. As of CTFd v3, Mailgun integration is deprecated. Installations using the Mailgun API should migrate over to SMTP settings.

LOG_FOLDER

The location where logs are written. These are the logs for CTFd key submissions, registrations, and logins. The default location is the CTFd/logs folder.

UPLOAD_PROVIDER

Specifies the service that CTFd should use to store files.

UPLOAD_FOLDER

The location where files are uploaded. The default destination is the CTFd/uploads folder.

AWS_ACCESS_KEY_ID

AWS access token used to authenticate to the S3 bucket.

AWS_SECRET_ACCESS_KEY

AWS secret token used to authenticate to the S3 bucket.

AWS_S3_BUCKET

The unique identifier for your S3 bucket.

AWS_S3_ENDPOINT_URI

A URL pointing to a custom S3 implementation.

REVERSE_PROXY

Specifies whether CTFd is behind a reverse proxy or not. Set to `True` if using a reverse proxy like nginx.

See [Flask documentation](#) for full details.



TIP

You can also specify a comma separated set of numbers specifying the reverse proxy configuration settings. For example to configure `x_for=1`, `x_proto=1`, `x_host=1`, `x_port=1`, `x_prefix=1` specify `1,1,1,1,1`. By setting the value to `True`, CTFd will default to the above behavior with all proxy settings set to 1.

TEMPLATES_AUTO_RELOAD

Specifies whether Flask should check for modifications to templates and reload them automatically.

SQLALCHEMY_TRACK_MODIFICATIONS

Automatically disabled to suppress warnings and save memory. You should only enable this if you need it.

SWAGGER_UI

Enable the Swagger UI endpoint at `/api/v1/`

UPDATE_CHECK

Specifies whether or not CTFd will check whether or not there is a new version of CTFd

APPLICATION_ROOT

Specifies what path CTFd is mounted under. It can be used to run CTFd in a subdirectory. Example: `/ctfd`

SERVER_SENT_EVENTS

Specifies whether or not to enable to server-sent events based Notifications system.

OAUTH_CLIENT_ID

OAUTH_CLIENT_SECRET

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