

Create/List key pairs

dotenvx init	Create .env and .env.keys in current directory
dotenvx -p test init	Create .env.test and .env.keys for test profile
dotenvx init -g	Create \$HOME/.env.keys for global profiles
dotenvx keypair	Validate and print key pair for .env
dotenvx -p test keypair	Validate and print key pair for .env.test
dotenvx keypair --all	List all global key pairs
dotenvx keypair --import	Import private key

Please use 'cargo binstall dotenvx-rs' to install dotenvx or download it from <https://github.com/linux-china/dotenvx-rs/releases>

encrypt and decrypt for .env files

dotenvx encrypt	Encrypt .env file
dotenvx -p test encrypt	Encrypt .env.test file
dotenvx encrypt --sign	Encrypt and sign .env file
dotenvx verify	Verify the .env file with public key and sign header in the file
dotenvx decrypt	Decrypt .env file
dotenvx -p test decrypt	Decrypt .env.test file
dotenvx decrypt --stdout	Read .env file and print the decrypted items to stdout
dotenvx decrypt --dump	Decrypt .env file and output entries to stdout with JSON format

You can sign an .env file. If somebody modify the .env file, and verification will be failed.

SDKs & CLIs with Dotenvx

dotenvx link .venv/bin/python	Generate python interpreter with Dotenvx support
dotenvx link bin/mysql	Generate mysql cli with .env setup
dotenvx link bin/psql	Generate psql cli with .env setup
dotenvx link bin/mongo	Generate mongo cli with .env setup
dotenvx link bin/redis-cli	Generate redis-cli with .env setup

Environment variables from .env:

- MYSQL_URL, POSTGRES_URL, DATABASE_URL
- MONGODB_URL
- REDIS_URL

.env file example

```
# ---
# uuid: f7580a c5- 0b2 4-4 385 -b3 ff- 819 225 -
# b687f3
# name: input your name here
# group: demo
# ---
DOTENV _PU BLI C_K EY= " 02b 497...."
# Enviro nment variables. MAKE SURE to ENCRYPT
them before committing to source control
HELLO= enc ryp ted :ba se6 4_text
```

.env.key file example

```
# ---
# uuid: 8499c5 c3- cee 3-4 c94 -99 a4- 9c8 6b2 -
# ed5dd9
# name: input your name here
# group: demo
# ---
# Private decryption keys. DO NOT commit to source
control
DOTENV _PR IVA TE_ KEY =9e 701 8-h ex-text
DOTENV _PR IVA TE_ KEY _EX AMP LE= a3d 15- hex -
text
```

GitHub Actions setup

```
jobs:
  dot env x-demo:
    run s-on: ubuntu -latest
    steps:
      - uses: action s/c hec kout@v4
      - uses: linux- chi na/ set up- dot env -
x@main
  - run: npm install
  - run: $HOME/.ca rgo /bi n/d otenvx run
-- node index.js
  env:
    DOT ENV _PR IVA TE_KEY: ${{{
secret s.D OTE NV_ PRI VAT E_KEY }}
```

Please add `DOTENV _PR IVA TE_KEY` secret to the Repository secrets first.

If you use act for local GitHub Actions test, please use `act -j dot env x-demo --secr et-file .env.keys`.

Get/Set item from .env file

<code>dotenvx get admin</code>	Get <code>ADMIN</code> value from .env file
<code>dotenvx get</code>	GET all key/value pairs from .env file
<code>dotenvx set admin Jackie</code>	SET <code>ADMIN</code> to <code>Jackie</code> in .env file
<code>dotenvx set admin -</code>	SET <code>ADMIN</code> from input
<code>dotenvx set key - < ./private.pem</code>	Set <code>key</code> from text of private.pem file
<code>dotenvx set <key> --clipboard</code>	Set key from clipboard

Please press Ctrl+D on Linux/macOS or Ctrl+Z on Windows to finish input.

Switch profile

<code>dotenvx -p test</code>	Change profile to test
<code>dotenvx encrypt -f .env.test</code>	Change profile to test by .env file name
<code>NODE_ENV=test dotenvx encrypt</code>	Change profile to test by enviro-nment

profile's environment variable names: `NODE_ENV`, `RUN_ENV`, `APP_ENV`, `SPRING_PROFILES_ACTIVE`.

Run command with .env support

<code>dotenvx run -- ./demo.sh</code>	Inject env variables from .env and run ./demo.sh
<code>dotenvx -f prod run -- ./demo.sh</code>	Inject env variables from .env.prod and run ./demo.sh
<code>dotenvx run -- echo 'HELLO'</code>	Inject env variables from .env to run command line
<code>dotenvx -c 'echo \$HELLO'</code>	Inject env variables from .env and run command line

Please use single quote to wrap variables from .env file.

Rotate key pair for project

<code>dotenvx rotate</code>	Rotate key pair for .env file
<code>dotenvx -p prod rotate</code>	Rotate key pair for .env.prod file
<code>dotenvx rotate -f .env.prod</code>	Rotate key pair for .env.prod file

Global private key management

<code>dotenvx init --global</code>	Generate global private keys in <code>\$HOME/.env.keys</code>
<code>dotenvx -- seal</code>	Encrypt <code>\$HOME/.env.keys</code> , <code>\$HOME/.dotenvx/.env.k-ey.json</code> with your password
<code>dotenvx -- unseal</code>	Decrypt <code>\$HOME/.env.keys.aes</code> , <code>\$HOME/.dotenvx/.env-v.keys.json.aes</code> with password

Misc

<code>eval \$(dotenvx decrypt -- export)</code>	Export .env items to environment variables
<code>eval \$(dotenvx get hello -- format shell)</code>	Export <code>HELLO</code> from .env items as environment variable
<code>dotenvx ls</code>	List all .env file from current directory recursively
<code>dotenvx -f test ls</code>	List all .env.test file from current directory recursively
<code>dotenvx diff key1,key2</code>	Disply keys' values between all .env files

Misc (cont)

dotenvx diff key1,key2 -- Disply keys' values between all .env
format csv files by csv

Tips: if you use direnv, and you can add "eval \$(dotenvx decrypt --export)" to the .envrc file to automatically load .env as the environment variables when you enter the directory.

Node.js(Volat), Bun, Deno with Dotenvx

```
#!/bin/bash
# load .env by dotenvx
eval $( dotenvx decrypt --stdout --format shell )
# Execute bun command with arguments
$HOME/.bun/bin/bun " $@"
#$HOME/.deno/bin/deno " $@"
```

Volta Dotenvx edition: <https://github.com/linux-china/volta/releases/tag/v2.0.2-dotenvx20250830>

Node.js, Bun/Deno script wrapper with Dotenvx: nodew, bunw, denow.

You can create wrapper script for Lua, PHP, Perl with same way.



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