Índex

Desplega un servidor vault en docker al servidor ubuntu.

```
1  docker run --name vault \
2      -p 8200:8200 \
3      -e 'VAULT_LOCAL_CONFIG={"backend": {"file": {"path": "/tmp/config.
          hcl"}}, "default_lease_ttl": "168h", "max_lease_ttl": "720h"}'
          \
4      --cap-add=IPC_LOCK vault
```

```
1  You may need to set the following environment variable:
2
3      $ export VAULT_ADDR='http://0.0.0.0:8200'
4
5  The unseal key and root token are displayed below in case you want to
6  seal/unseal the Vault or re-authenticate.
7
8  Unseal Key: fB4Zxlg3I/c+YwoYNnavxm0di/naI1xLuILDKFoBYr4=
9  Root Token: s.OBf0w0mI2h1MpMYOsMOJzuOp
10
11 Development mode should NOT be used in production installations!
```

Entra dins de la interfície de vault i genera un recurs assignat a un usuari o servei
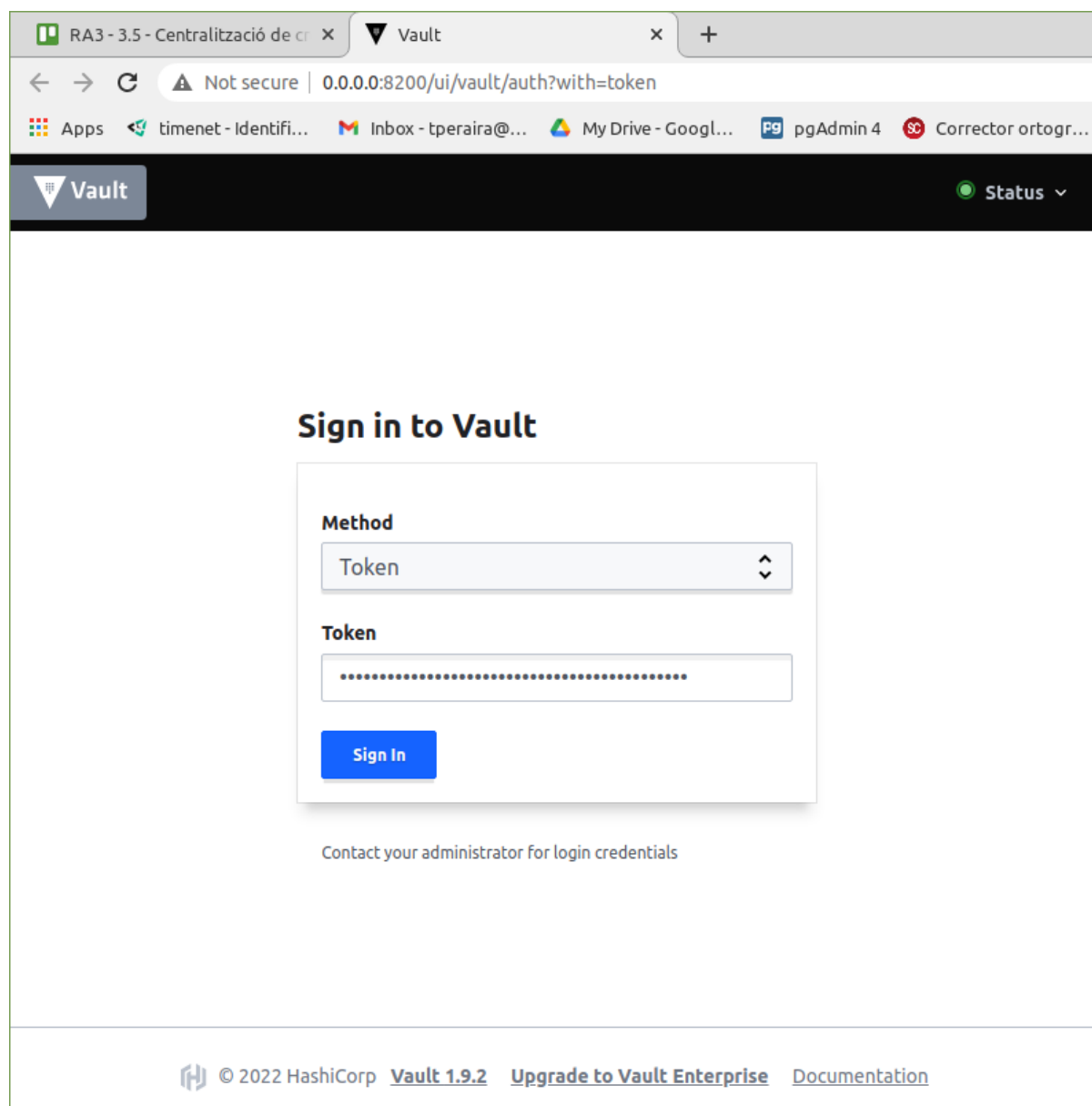
Figure 1: "Vault UI access"

He creat un secret que és una API KEY de l'AEMET (Agència Estatal de Meteorologia) i les dades d'un servei MySQL/MariaDB que tinc en local.

⟨ secret ⟨ aemet

aemet

Secret   Metadata

JSON	Delete	Copy ⌄	Version 1 ⌄	Create new version +

Key	Value	Version created Jan 13, 2022 07:22 PM
api_key	▣ ⦸ ··························	

Figure 2: "API KEY AEMET"

Create Connection

Database plugin

MySQL/MariaDB

Connection name

local_mariadb

☑ **Connection will be verified**

◯ **Use custom password policy**
   Unless a custom policy is specified, Vault will use a default: 20 characters with at least 1 uppercase, 1 lowercase, 1
   number, and 1 dash character. See our documentation for help.

Plugin config

Connection URL
The connection string used to connect to the database. This allows for simple templating of username and password of the root user in
the {{field_name}} format.

{{username}}:{{password}}@tcp(10.10.0.2:3306)/

Username
The name of the user to use as the "root" user when connecting to the database.

root

Password
The password to use when connecting with the above username.

••••

Figure 3: "MariaDB Connection"

Fes servir la API de vault per accedir a aquest recurs com si fossis aquest usuari o servei

Obtenir AEMET API KEY:

```
1  curl \
2  --header "X-Vault-Token: s.5FSc4tfVo0kbysi9bzKn8NxN" \
3  http://0.0.0.0:8200/v1/secret/data/aemet
4
5  > {"request_id":"7b7a3bbc-a16b-dbac-5cc9-1a39c9429b10","lease_id":"","
      renewable":false,"lease_duration":0,"data":{"data":{"aemet_api_key"
      :"ax!%Q@UQWo8*o8$$Moz!TBX38ul*tusy"},"metadata":{"created_time":"
      2022-01-13T17:21:28.865537339Z","custom_metadata":null,"
      deletion_time":"","destroyed":false,"version":1}},"wrap_info":null,
      "warnings":null,"auth":null}
```

Obtenir dades MariaDB:

```
1  curl \
2  --header "X-Vault-Token: s.5FSc4tfVo0kbysi9bzKn8NxN" \
3  http://0.0.0.0:8200/v1/database/config/local_mariadb
4
5  > {"request_id":"7e9c253f-451e-bce0-3c0e-373c9eac39f6","lease_id":"","
      renewable":false,"lease_duration":0,"data":{"allowed_roles":[],"
      connection_details":{"backend":"database","connection_url":"{{
      username}}:{{password}}@tcp(10.10.0.2:3306)/","
      max_connection_lifetime":"0s","max_idle_connections":0,"
      max_open_connections":4,"username":"root"},"password_policy":"","
      plugin_name":"mysql-database-plugin","
      root_credentials_rotate_statements":[]},"wrap_info":null,"warnings"
      :null,"auth":null}
```