Vault kv (list vs get)

The difference between **vault kv list** and **vault kv get** lies in their purpose and what they retrieve from the Vault key-value secrets engine:

1. vault kv list

- **Purpose:** Used to list the keys (sub-paths) stored at a specific path in the key-value (KV) secrets engine.
- Output: Displays a list of keys available under the specified path.
- Use Case: When you want to see what secrets or subpaths are available under a specific directory.

Example:

SHELL

vault kv list secret/

Output:

```
Keys
----
aws
db
api
```

Here, aws, db, and api are the available sub-paths (keys) under secret/.

2. vault kv get

- Purpose: Retrieves the actual data (key-value pairs) stored at a specific key.
- **Output:** Displays the key-value pairs (secrets) stored at the provided path.
- **Use Case:** When you want to view the secrets (e.g., access keys, passwords) stored at a specific path.

Example:

SHELL

vault kv get secret/aws/credentials

Output:

Results ### Results

Here, the command retrieves the actual secret stored at the path secret/aws/credentials.

Key Differences

Feature	vault kv list	vault kv get
Purpose	Lists all keys (sub- paths) at a path.	Retrieves the data stored at a specific key.
Output	A list of keys (sub- paths).	Key-value pairs (secrets) and metadata.
Input Path	Directory or path.	Specific key or path to retrieve data from.

Feature	vault kv list	vault kv get
Use Case	Discover what is stored in Vault.	Retrieve the actual stored secrets.

Example Scenario:

1. Listing Available Keys:

```
vault kv list secret/
```

Output:

```
Keys
----
aws
db
```

You now know there are keys **aws** and **db** under **secret/**.

2. Retrieving Data for a Specific Key:

```
vault kv get secret/aws
```

Output:

```
### Secret_key
### Secret_key
### Secret_key
### Secret_key
### Secret_key
### Secret_key
### Value
#### Value
#### Value
#### Common Secret Sec
```

This retrieves the actual secrets stored under the aws key.

Summary

- vault kv list: Lists available keys or sub-paths under a path.
- vault kv get: Retrieves the actual data (secrets) stored at a specific key.

Use **list** to discover the structure of your secrets and **get** to retrieve the actual values.