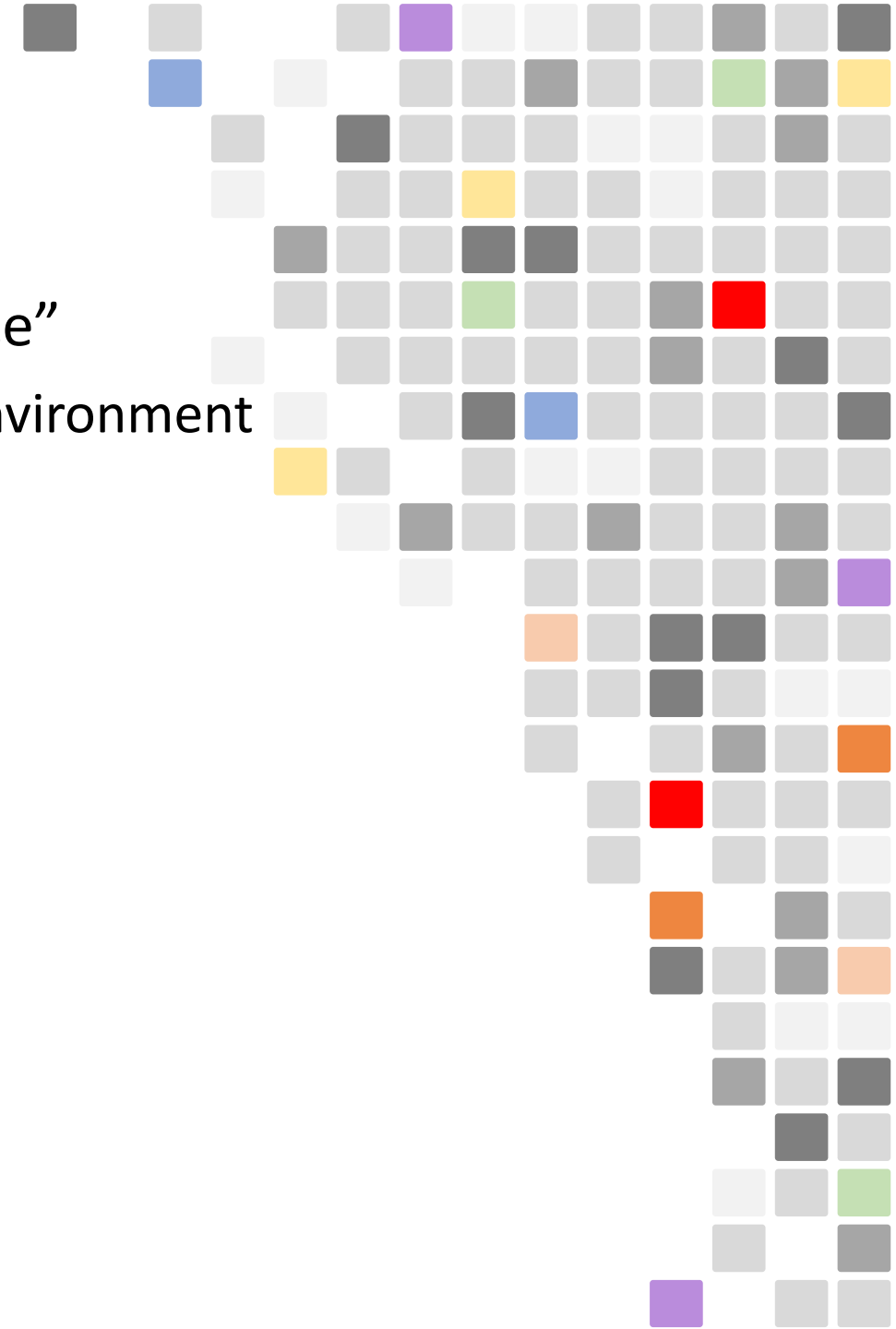
Section 6

HashiCorp Vault Namespaces

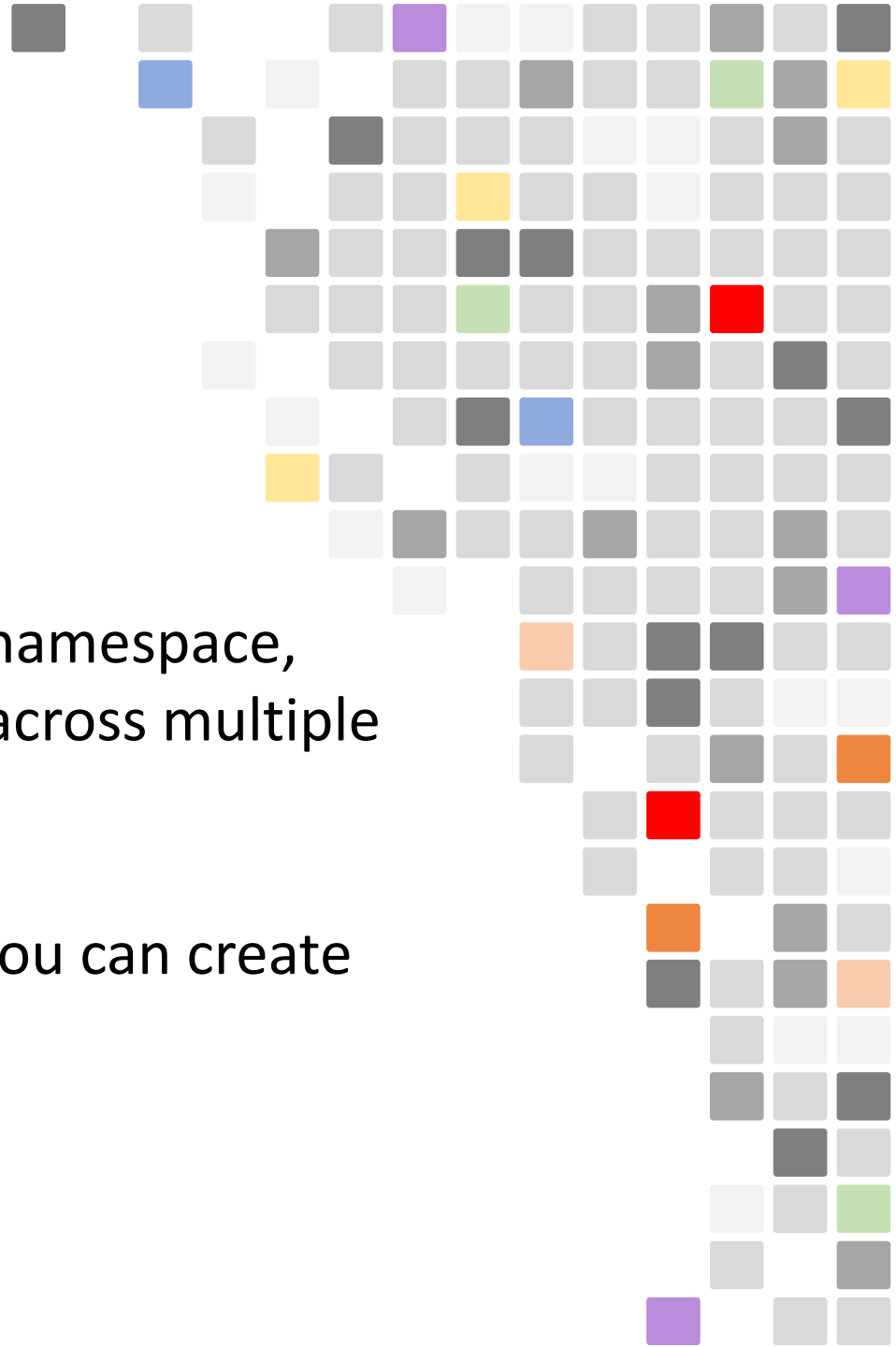
What are Namespaces?

- Allows organizations to provide “Vault as a Service”
  - Provides isolated environments on single Vault environment
  - Multi-tenant but centralized management
  - Allows delegation of Vault of responsibilities
- Available in all versions of Vault Enterprise
- Each namespace can have its own:
  - Policies
  - Auth Methods
  - Secrets Engines
  - Tokens
  - Identities

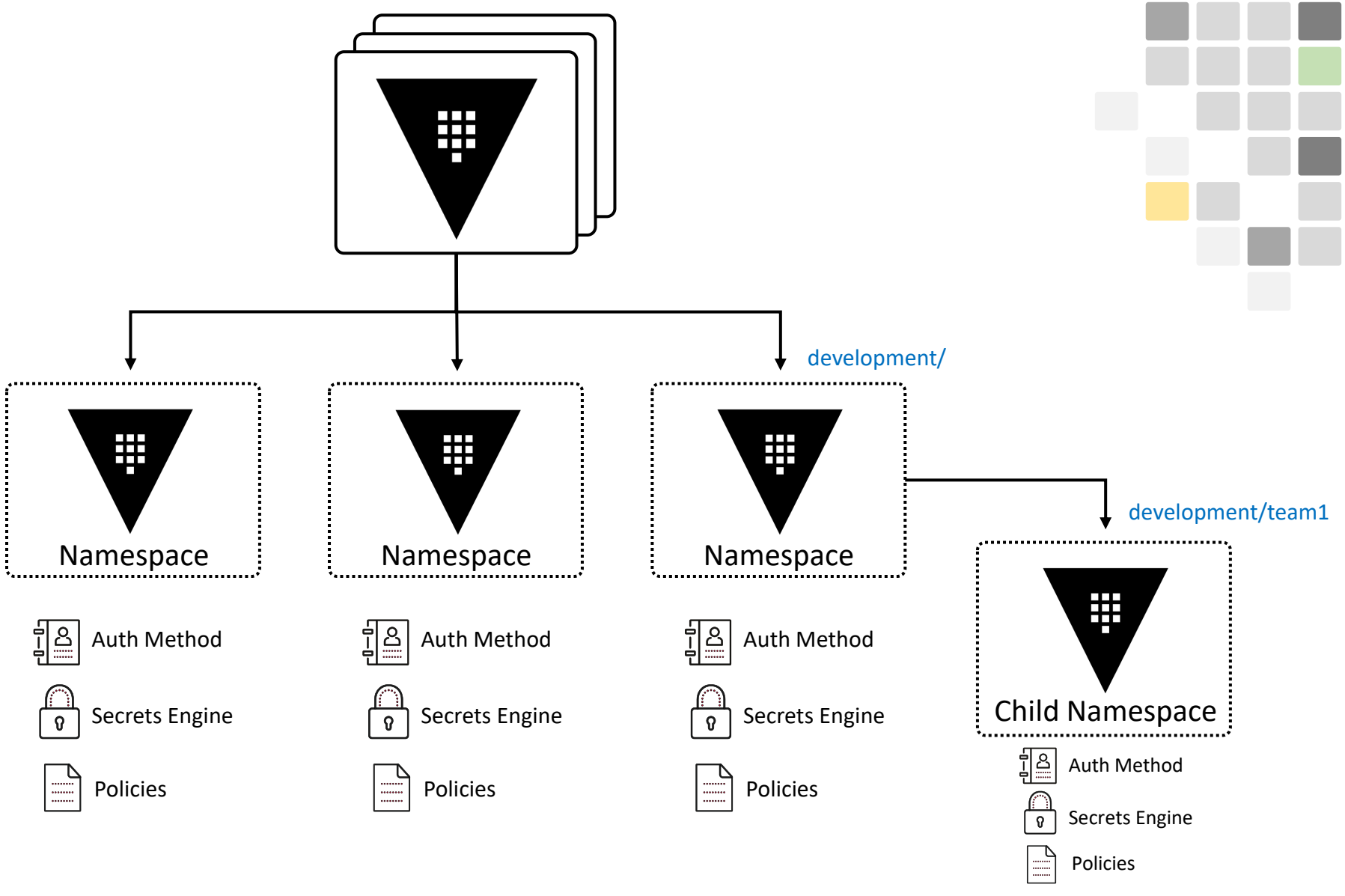


What are Namespaces?

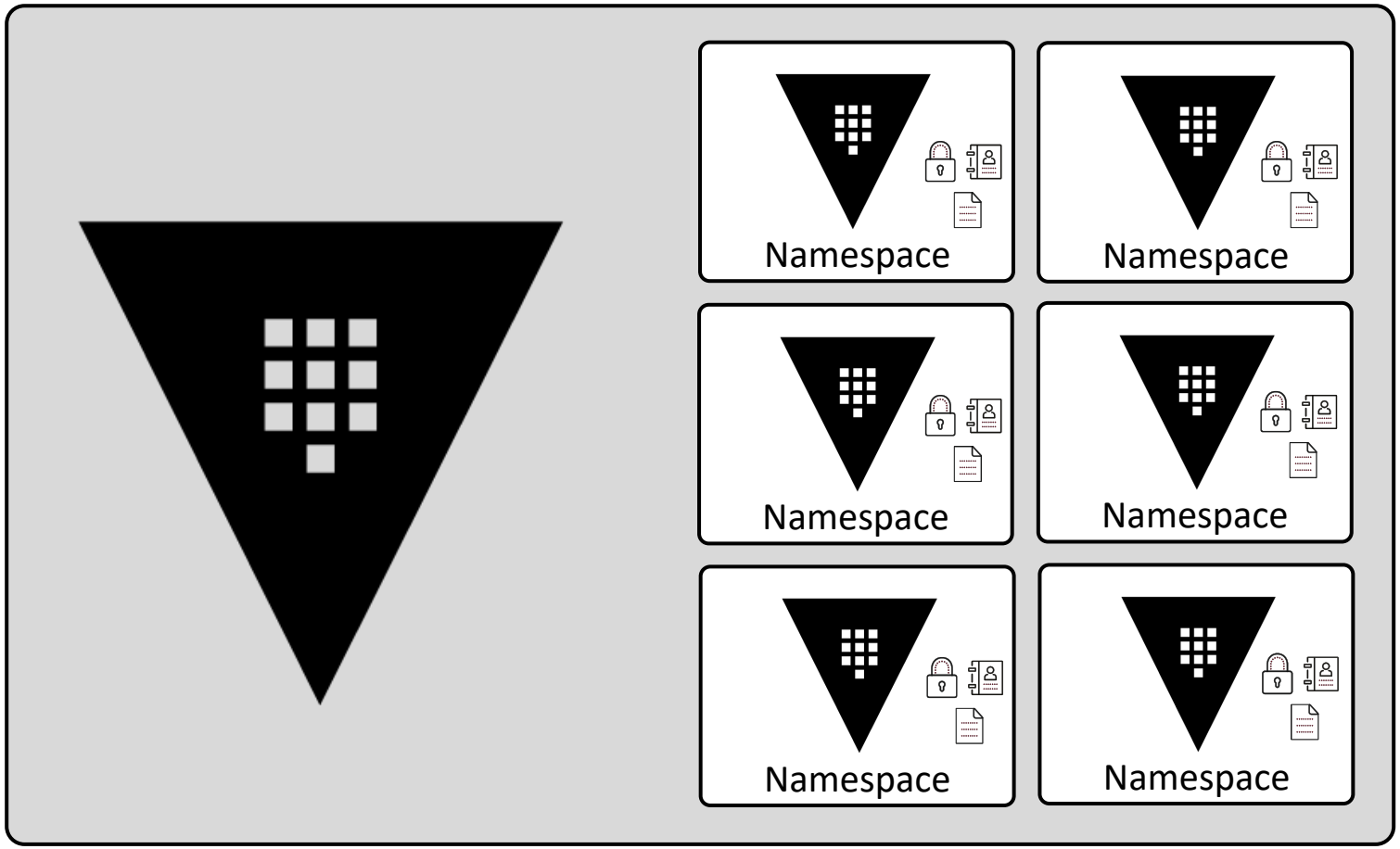
- The default namespace is ‘root’
- Namespaces are created in a hierarchical fashion
- Just like root, paths and ACLs are relative to the namespace, making easier to re-use commands and policies across multiple namespaces
- Tokens are only valid in a single namespace, but you can create an entity who has access to other namespaces



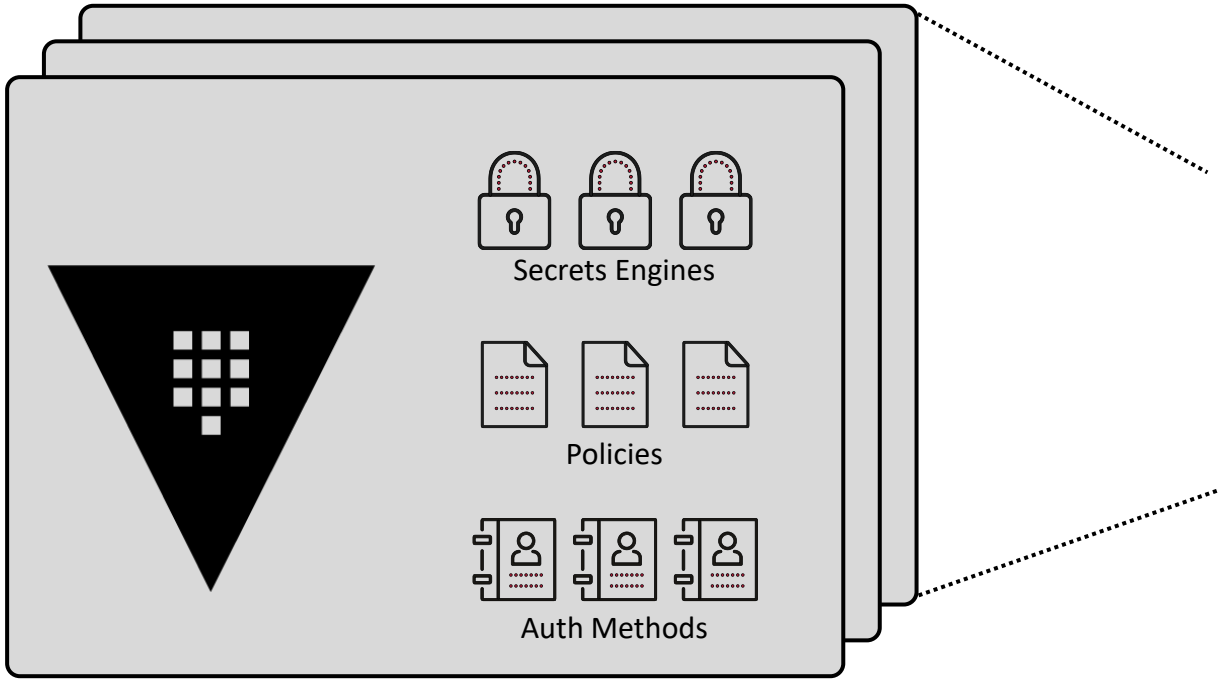
What are Namespaces?

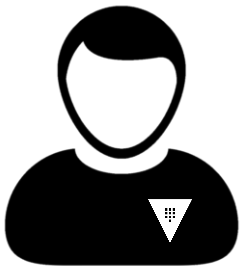


What are Namespaces?



Administrative Delegation





Responsible for:

- Development Team
- Integrations Team
- Data Team
- Cloud Team
- Education Team

Responsible for:

Namespaces Commands

Create Namespace

```
$ vault namespace create <namespace>
```

Create Child Namespace

```
$ vault namespace create –namespace=<namespace> <child namespace>
```

List Namespaces (under root)

```
$ vault namespace list
```

Set Namespace Environment Variable

```
$ export VAULT_NAMESPACE=<namespace>
```

Namespaces Commands

API Header = X-Vault-Namespace

```
curl \
-H "X-Vault-Token: "xxx-xxx-xxx" \
-H "X-Vault-Namespace: "development/team1/" \
-X GET \ http://vault:8200/v1/vault/advanced
```

Demo

Vault Namespaces

- Create Namespaces
- Enable Features on Namespaces
- Create Entity and use in Child Namespace