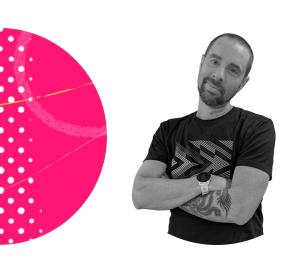
# Vault Agent and Proxy



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#### **Application Integration Challenges**

**Contact Vault server** 

**Authenticate** 

Manage tokens and leases

**Access secrets** 



| Feature | Agent | Proxy |
|---------|-------|-------|
|         |       |       |



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|-----------------------|-------|-------|
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| Process supervisor       | Yes   | No    |

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| Template rendering       | Yes   | No    |
| Process supervisor       | Yes   | No    |
| API proxy                | No*   | Yes   |



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| Cache tokens and leases  | Yes   | Yes   |
| Template rendering       | Yes   | No    |
| Process supervisor       | Yes   | No    |
| API proxy                | No*   | Yes   |
| Static secret caching    | No    | Yes   |

#### **Agent Features**

**Auto-auth** 

Manages tokens

**Limited methods** 

Caching

Stores tokens and leased secrets

**Templates** 

Consul template format

Renders to a file

Process supervisor mode

Controls applications

Renders to environment variables

```
vault {
  address = "https://my.vault.server:8200"
  ca_cert = "/path/to/ca/cert.pem"
}
```



```
auto_auth {
  method "approle" {
    config = {
      role_id_file_path = "/path/to/role_id/file"
      secret_id_file_path = "/path/to/secret_id/file"
  sink {
   type = "file"
    path = "/path/to/file/sink"
cache {}
```

```
template_config {
  static_secret_render_interval = "5m"
}

template {
  source = "/path/to/template.ctmpl"
  destination = "/path/to/rendered/template.ini"
}
```



#### template.ctmpl

#### **Template File**

```
{{ with secret secrets/taco-recipe }}
Recipe: {{ .Data.data.full_recipe }}
{{ end }}
```



```
env_template "SECRET_RECIPE" {
  contents = <<EOT
  {{ with secret "secret/tacos" }}
  {{ .Data.data }}
  {{ end }}
  EOT
exec {
  command = ["python", "taco-app.py"]
  restart_on_secret_changes = "always"
```

# Using the Vault Agent

Deploy a Vault server and run the Vault Agent to access secrets using the AppRole auth method

