

Vault Agent and Proxy



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Application Integration Challenges

Contact Vault server

Authenticate

Manage tokens and leases

Access secrets



Vault Agent or Proxy

Feature	Agent	Proxy
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API proxy	No*	Yes



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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



Agent Configuration

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



Agent Configuration

```
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 {}
```



Agent Configuration

```
template_config {  
    static_secret_render_interval = "5m"  
}  
  
template {  
    source          = "/path/to/template.ctmpl"  
    destination    = "/path/to/rendered/template.ini"  
}
```



Template File

template.ctmpl

```
{{ with secret secrets/taco-recipe }}
```

```
Recipe: {{ .Data.data.full_recipe }}
```

```
{{ end }}
```



Agent Configuration

```
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

