Vault PHP Client Documentation

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Contents:

This is a PHP client for Vault - a tool for managing secrets.

CHAPTER 1

Quick start

```php
<?php

use Vault\AuthenticationStrategies\AppRoleAuthenticationStrategy;
use Vault\AuthenticationStrategies\UserPassAuthenticationStrategy;
use Vault\AuthenticationStrategies\TokenAuthenticationStrategy;
use Vault\Client;
use Laminas\Diactoros\RequestFactory;
use Laminas\Diactoros\StreamFactory;
use Laminas\Diactoros\Uri;

// Creating the client
$client = new Client(
    new Uri('http://127.0.0.1:8200'),
    new \AlexTartan\GuzzlePsr18Adapter\Client(),
    new RequestFactory(),
    new StreamFactory()
); // Using alextartan/guzzle-psr18-adapter and laminas/laminas-diactoros

// Define Vault Namespace (optional)

$client->setNamespace('my-namespace');

// Authenticating using userpass auth backend.

$authenticated = $client
    ->setAuthenticationStrategy(new UserPassAuthenticationStrategy('test', 'test'))
    ->authenticate();

// Authenticating using approle auth backend.

$authenticated = $client
    ->setAuthenticationStrategy(new AppRoleAuthenticationStrategy(
        'd4131206-384f-75fa-11d6-55d1d63c07c0',
        'cac86a12-c566-3932-09f3-5823ccdfa606'
```

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```
    ))
    ->authenticate();

// Authenticating using token auth backend.
$authenticated = $client
    ->setAuthenticationStrategy(new TokenAuthenticationStrategy('463763ae-0c3b-ff77-
↪e137-af668941465c'))
    ->authenticate();
```

CHAPTER 2

List secret keys

To retrieve a set of keys in a secret, after authentication, use the `keys()` method, passing in the database's path, with the suffix `/metadata`, as you can see in the highlighted section below.

```php
<?php

use Vault\AuthenticationStrategies\TokenAuthenticationStrategy;
use Vault\Client;
use Zend\Diactoros\RequestFactory;
use Zend\Diactoros\StreamFactory;
use Zend\Diactoros\Uri;

// Creating the client
$client = new Client(
    new Uri('http://127.0.0.1:8200'),
    new \AlexTartan\GuzzlePsr18Adapter\Client(),
    new RequestFactory(),
    new StreamFactory()
); // Using alextartan/guzzle-psr18-adapter and zendframework/zend-diactoros

// Authenticating using token auth backend.
// Request exception could appear here.
$authenticated = $client
    ->setAuthenticationStrategy(new TokenAuthenticationStrategy('463763ae-0c3b-ff77-
↪e137-af668941465c'))
    ->authenticate();

if (!$authenticated) {
    // Throw an exception or handle authentication failure.
}

// Request exception could appear here.
/** @var \Vault\ResponseModels\Response $response */
$response = $client->keys('/secret/metadata');

```

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```
$data = $response->getData(); // Raw array with a list of secret keys.

// ...
```

On success, an associative array is returned, similar in structure to the example below. This array contains an element named `keys`, whose value is an array of the secret's keys.

```
[
    "keys": [
        "hello"
    ]
]
```

CHAPTER 3

Fetching a secret

```php
<?php

use Vault\AuthenticationStrategies\TokenAuthenticationStrategy;
use Vault\Client;
use Laminas\Diactoros\RequestFactory;
use Laminas\Diactoros\StreamFactory;
use Laminas\Diactoros\Uri;

// Creating the client
$client = new Client(
    new Uri('http://127.0.0.1:8200'),
    new \AlexTartan\GuzzlePsr18Adapter\Client(),
    new RequestFactory(),
    new StreamFactory()
); // Using alextartan/guzzle-psr18-adapter and laminas/laminas-diactoros

// Authenticating using token auth backend.
// Request exception could appear here.
$authenticated = $client
    ->setAuthenticationStrategy(new TokenAuthenticationStrategy('463763ae-0c3b-ff77-
↪e137-af668941465c'))
    ->authenticate();

if (!$authenticated) {
    // Throw an exception or handle authentication failure.
}

// Request exception could appear here.
/** @var \Vault\ResponseModels\Response $response */
$response = $client->read('/secret/database');

$data = $response->getData(); // Raw array with secret's content.

// ...
```

CHAPTER 4

Indices and tables

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