

Property Sources

Property Sources

Registering VaultPropertySource

@VaultPropertySource

Vault can be used in many different ways. One specific use-case is using Vault to store encrypted properties. Spring Vault supports Vault as property source to obtain configuration properties using Spring's [PropertySource abstraction](#).

NOTE

You can reference properties stored inside Vault in other property sources or use value injection with `@Value(...)`. Special attention is required when bootstrapping beans that require data stored inside of Vault. A [VaultPropertySource](#) must be initialized at that time to retrieve properties from Vault.

NOTE

Spring Boot/Spring Cloud users can benefit from [Spring Cloud Vault](#)'s configuration integration that initializes various property sources during application startup.

NOTE

Vault determines the mount path through Vault's `sys/internal/ui/mounts/...` endpoint. Make sure that your policy allows accessing that path, otherwise you won't be able to use Vault Property sources.

Registering VaultPropertySource



Cookies

[Cookies Settings](#)

Broadcom and our partners use technology, including cookies to, among other things, operate the site, analyze site usage, view and retain your site interactions, improve your experience and help us advertise. Click "Cookie Settings" to manage your privacy choices. By continuing to use our site, you agree to these data practices as described in our **Cookie Notice**

In the code above, `VaultPropertySource` has been added with highest precedence in the search. If it contains a `foo` property, it will be detected and returned ahead of any `foo` property in any other `PropertySource`. `MutablePropertySources` exposes a number of methods that allow for precise manipulation of the set of property sources.

@VaultPropertySource

The `@VaultPropertySource` annotation provides a convenient and declarative mechanism for adding a `PropertySource` to Spring's `Environment` to be used in conjunction with `@Configuration` classes.

`@VaultPropertySource` takes a Vault path such as `secret/my-application` and exposes the data stored at the node in a `PropertySource`. `@VaultPropertySource` supports lease renewal for secrets associated with a lease (i. e. credentials from the `mysql` secrets engine) and credential rotation upon terminal lease expiration. Lease renewal is disabled by default.

Example 1. Properties stored in Vault

```
{
  // ...

  "data": {
    "database": {
      "password": ...
    },
    "user.name": ...,
  }

  // ...
}
```

JSON

Example 2. Declaring a @VaultPropertySource

Cookies

Broadcom and our partners use technology, including cookies to, among other things, operate the site, analyze site usage, view and retain your site interactions, improve your experience and help us advertise. Click "Cookie Settings" to manage your privacy choices. By continuing to use our site, you agree to these data practices as described in our **Cookie Notice**

```

        testBean.setPassword(env.getProperty("database.password"));
        return testBean;
    }
}

```

Example 3. Declaring a `@VaultPropertySource` with credential rotation and prefix

```

@Configuration
@VaultPropertySource(value = "aws/creds/s3-access",
                    propertyNamePrefix = "aws.",
                    renewal = Renewal.ROTATE)
public class AppConfig {
    // provides aws.access_key and aws.secret_key properties
}

```

JAVA

NOTE

Secrets obtained from generic secrets engines are associated with a TTL (`refresh_interval`) but not a lease Id. Spring Vault's `PropertySource` rotates generic secrets when reaching its TTL.

NOTE

You can use `@VaultPropertySource` to obtain the newest secret version from the versioned Key-Value secrets backend. Make sure to not include the `data/` segment in the path.

Any `${...}` placeholders present in a `@VaultPropertySource` path are resolved against the set of property sources already registered against the environment, as the following example shows:

Example 4. Declaring a `@VaultPropertySource` path using placeholders

```

@Configuration
@VaultPropertySource(value = "aws/creds/${my.placeholder:fallback/value}",
                    propertyNamePrefix = "aws.",
                    renewal = Renewal.ROTATE)

```

JAVA

Cookies

Broadcom and our partners use technology, including cookies to, among other things, operate the site, analyze site usage, view and retain your site interactions, improve your experience and help us advertise. Click “Cookie Settings” to manage your privacy choices. By continuing to use our site, you agree to these data practices as described in our **Cookie Notice**

In certain situations, it may not be possible or practical to tightly control property source ordering when using `@VaultPropertySource` annotations. For example, if the `@Configuration` classes above were registered via component-scanning, the ordering is difficult to predict. In such cases - and if overriding is important - it is recommended that the user fall back to using the programmatic `PropertySource` API. See [ConfigurableEnvironment](#) and [MutablePropertySources](#) for details.



Copyright © 2005 - 2026 Broadcom. All Rights Reserved. The term "Broadcom" refers to Broadcom Inc. and/or its subsidiaries.

[Terms of Use](#) • [Privacy](#) • [Trademark Guidelines](#) • [Thank you](#) • [Your California Privacy Rights](#) • [Cookies Settings](#)

Apache®, Apache Tomcat®, Apache Kafka®, Apache Cassandra™, and Apache Geode™ are trademarks or registered trademarks of the Apache Software Foundation in the United States and/or other countries. Java™, Java™ SE, Java™ EE, and OpenJDK™ are trademarks of Oracle and/or its affiliates. Kubernetes® is a registered trademark of the Linux Foundation in the United States and other countries. Linux® is the registered trademark of Linus Torvalds in the United States and other countries. Windows® and Microsoft® Azure are registered trademarks of Microsoft Corporation. "AWS" and "Amazon Web Services" are trademarks or registered trademarks of Amazon.com Inc. or its affiliates. All other trademarks and copyrights are property of their respective owners and are only mentioned for informative purposes. Other names may be trademarks of their respective owners.

Cookies

Broadcom and our partners use technology, including cookies to, among other things, operate the site, analyze site usage, view and retain your site interactions, improve your experience and help us advertise. Click "Cookie Settings" to manage your privacy choices. By continuing to use our site, you agree to these data practices as described in our **Cookie Notice**