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Very Detailed Answer: A Good HTTP/S Server for Handling REST Calls in Groovy using

Maven to Build With

Question Summary

The user is seeking a recommendation for a good HTTP/S server to handle REST calls in Groovy. They specifically mention using Maven to build their project. The user also requests usage examples.

Answer

When it comes to handling REST calls in Groovy and building with Maven, there are several options available. In this detailed answer, I will introduce you to two popular choices: Grails and Ratpack.

Grails

Grails is a powerful web application framework built on top of Groovy. It provides a comprehensive ecosystem for developing RESTful applications. Grails uses the Apache Tomcat server by default, which supports both HTTP and HTTPS protocols. To use Grails with Maven, you can create a new Grails project and configure the necessary dependencies in your `pom.xml` file.

Here's an example of how to create a Grails project using Maven:

```
language-groovy
```

[Copy code](#)

```
mvn archetype:generate -DarchetypeGroupId=org.grails -DarchetypeArtifactId=
```

Once you have created your project, you can define your REST endpoints in the `grails-app/controllers` directory. Here's an example of a simple REST controller in Grails:

```
language-groovy
```

[Copy code](#)

```
import grails.rest.*
import grails.transaction.*
```

```
@Transactional(readOnly = true)
@CompileStatic
@RestController
@RequestMapping('/api/books')
class BookController extends RestfulController<Book> {
    BookController() {
        super(Book)
    }
}
```

Grails provides a convenient way to define RESTful routes using annotations like `@RequestMapping`. You can customize the routes and implement the necessary logic for handling REST calls in your controller.

Ratpack

Ratpack is a lightweight, asynchronous web framework for Groovy. It is designed to handle high-performance applications and provides excellent support for building RESTful APIs. Ratpack uses the Netty server, which is known for its scalability and performance.

To use Ratpack with Maven, you can add the necessary dependencies to your `pom.xml` file. Here's an example:

```
language-xml
```

[Copy code](#)

```
<dependencies>
  <dependency>
    <groupId>io.ratpack</groupId>
    <artifactId>ratpack-core</artifactId>
    <version>1.9.0</version>
  </dependency>
  <!-- Add other dependencies as needed -->
</dependencies>
```

Once you have added the dependencies, you can define your REST

endpoints in the `ratpack.groovy` file. Here's an example of a simple Ratpack application:

```
language-groovy
```

[Copy code](#)

```
import ratpack.groovy.GroovyRatpackMain

GroovyRatpackMain.start {
    handlers {
        get {
            render "Hello, World!"
        }
        // Add other routes and handlers as needed
    }
}
```

Ratpack uses a DSL (Domain-Specific Language) to define routes and handlers. You can easily customize the routes and implement the necessary logic for handling REST calls in your application.

Conclusion

Both Grails and Ratpack are excellent choices for handling REST calls in Groovy. Grails provides a more comprehensive framework with built-in support for many features, while Ratpack offers a lightweight and high-performance solution. Choose the one that best fits your project requirements and preferences.

Remember to configure the necessary dependencies in your `pom.xml` file when using Maven. With these frameworks, you can easily build robust and scalable RESTful applications in Groovy.

I hope this detailed answer helps you in selecting the right HTTP/S server for handling REST calls in Groovy using Maven to build with. Happy coding!

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