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The following apps provide additional help with Spring Boot development with the support of Apache Geode or Pivotal GemFire. Most often ask the question: What spring data for the Apache Geode/Pivotal GemFire annotation I can or should use in the development of Apache Geode or Pivotal GemFire applications with Spring Boot? To answer this question, we should start by reviewing the full collection of available spring data for Apache Geode/Pivotal GemFire (SDG). These annotations are presented in the package org.springframework.data.gemfire.config.annotation. Most of the relevant annotations start at @Enable... with the exception of basic annotations: @ClientCacheApplication, @PeerCacheApplication and @CacheServerApplication. What's more, the Spring Download for Apache Geode/Pivotal GemFire (SBDG) is based on a SDG-based configuration model to implement automatic configuration and use basic Spring Boot concepts such as the configuration convention to create GemFire/Geode applications with Boot Spring securely, quickly and easily. SDG provides this annotation-based configuration model to give app developers a choice when building Spring applications using Apache Geode or Pivotal GemFire. SDG makes no assumptions about what app developers are trying to do, and not quickly at any time the configuration is ambiguous, giving users immediate feedback. Second, SDG annotations were designed to launch app developers quickly and reliably. SDG achieves this by applying reasonable defaults, so app developers don't need to know or even explore all the complex configuration details and tools GemFire/Geode provides to perform simple tasks, such as prototyping. So SDG is all about choice, and SBDG is all about convention. Together, this framework provides app developers with convenience and reliability to move quickly and easily. To learn more about the motivation behind the SDG-based configuration model, check out the background. SBDG currently provides an automatic configuration for the following functions: ClientCache Cash-abstraction Continuous execution of the request function - Implementation of the PDX GemFireTemplate Spring Security Data Repository (customer/server Auth SSL) Spring session Technically, this means that the following SDG annotations are not required to use the above features: @ClientCacheApplication @EnableGemfireCaching (or using Spring Framework's @EnableContinuousQueries @EnableGemfireFunctionExecutions @EnableGemfireFunctions @EnableLogging @EnablePdx @EnableGemfireRepositories @EnableSecurity @EnableSsl @EnableGemfireHttpSession @EnableCaching) SBDG automatically adjusts these features for you, then higher annotations are not strictly required. Typically, you only announce one of your myk annotations when you want to override the Spring Boot conventions expressed in automatic configuration and adjust function behavior. In this section, we cover a few examples to make the behavior of override more obvious. By default, SBDG provides you with a copy of ClientCache. Technically, SBDG achieves this by annotating the auto configuration class with @ClientCacheApplication, internally. Under the convention, we assume that most app developers will develop Spring Boot applications using Apache Geode or Pivotal GemFire as client applications in the topology of the GemFire/Geode client. This is especially true as users migrate their applications to a manageable environment such as Pivotal CloudFoundry (PCF) using Pivotal Cloud Cache (PCC). However, users can override their default settings and declare their Spring applications as actual peer-to-peer cluster members. @SpringBootApplication @CacheServerApplication MySpringBootPeerPeerCache ServerPrime ... By announcing the @CacheServerApplication annotation, you're actually canceling SBDG by default. Therefore, SBDG will not provide a copy of ClientCache because you have informed SBDG exactly about what you want, i.e. a peer-to-peer instance of Cache hosting a built-in CacheServer that allows customer connections. However, you might ask: Well, how do you set up a copy of ClientCache when developing client applications without direct announcement @ClientCacheApplication annotations then? First, you can fully configure a ClientCache instance by explicitly announcing the @ClientCacheApplication in the Spring Boot configuration and install certain attributes if necessary. However, you should be aware that by explicitly announcing this annotation, or any of the other auto-configured default annotations, then you take on all the responsibility that comes with it, since you are actually re-warming the automatic configuration. One example of this is the security we touch on more below. The most ideal way to configure any feature is to use known and documented properties listed in the Spring Boot.properties app (convention), or with a configurator. For more information, see the Background Guide. Like @ClientCacheApplication, annotation @EnableSecurity is not strictly required unless you want to override and customize by default. Outside of a controlled environment, the only security configuration required is to provide the username and password. You do this using the famous and SDG document username/password properties in the Spring Boot application.properties as well: safety properties in the restlessness of Environment Envionment spring.data.gemfire.security.password=Secret You don't need to explicitly declare an annotation @EnableSecurity just to specify a security configuration (such as a username/password). Inside a managed environment such as pivotal CloudFoundry (PCF) using Pivotal Cloud Cache (PCC), SBDG can introspect the environment and set up Security (Auth) completely without having to specify any configuration, usernames/passwords or otherwise. This is partly because PCF provides security information in the VCAP environment when the application is deployed on PCF and tied to services (such as PCC). So, in short, you don't need to explicitly announce @EnableSecurity annotations (or @ClientCacheApplication for that matter). However, if you directly announce either @ClientCacheApplication and/or @EnableSecurity annotations, guess what, now you are responsible for this configuration and the automatic SBDG configuration no longer applies. While direct ad @EnableSecurity makes more sense when it redefines the automatic configuration of SBDG Security, direct announcement of the @ClientCacheApplication annotation is likely to make less sense about its impact on the security configuration. This is entirely due to the internal GemFire/Geode, which in some cases, as security, is not even able to completely shield users from the nuances of the GemFire/Geode configuration. Both Auth and SSL must be configured before creating a cache instance (whether it's ClientCache or peer cache, it doesn't matter). Technically, this is due to the fact that security is enabled/configured during the construction of the cache. And the cache pulls the configuration out of the JVM properties that need to be installed before the cache is built. Structuring the exact order of the automatic configuration classes provided by SBDG when classes are triggered is no small feat. So it's no surprise that security's automatic configuration classes in SBDG should be run before the ClientCache auto-configuration class, so a copy of ClientCache can't auto-authenticate properly in the PCC when @ClientCacheApplication is explicitly announced without any help (i.e. you should also explicitly announce the annotation @EnableSecurity in this case, since you overrode the automatic cache configuration, and, well, not the security. Again, this is due to how security (Auth) and SSL meta data should be provided by GemFire/Geode. For more information, see the Background Guide. Most of the time, many of the other auto-configured annotations for C, Features, PDX, Repository, and so on, don't need to ever be announced explicitly. Many of these features are automatically activated by having SBDG or other libraries (such as the Spring Session) on the classpath, included based on other annotations applied to spring spring beans Let's take a look at a few examples. When using SBDG, it is rare, if all, to declare directly either @EnableCaching the spring framework @EnableGemfireCaching or @EnableGemfireCaching of a specific SDG annotation. SBDG automatically caching and customizes SDG GemfireCacheManager for you. You just need to focus on which components of the application service are suitable for caching: CustomerService @Service Service - @Autowired private customerRepository customerRepository; @Cacheable (CustomersByName) findBy (String name) - customerRepository.findBy (name); Of course, you need to create GemFire/Geode Regions that support caches claimed in application service components (e.g. CustomersByName) using Spring Caching annotations (such as @Cacheable), or as an alternative, JSR-107, JCache (e.g., @CacheResult). You can do this by defining each region explicitly, or more conveniently, you can simply use: Setting caches (regions) @SpringBootApplication @EnableCachingDefinedRegions class Of Apps @EnableCachingDefinedRegions... For more information, see the Background Guide. Rarely, if all, you need to explicitly declare SDG @EnableContinuousQueries annotations. Instead, you should focus on identifying application requests and worry less about plumbing. Determining requests for public class @Component TemperatureMonitor expands AbstractTemperatureEventPublisher - @ContinuousQuery (name - BoilingTemperatureMonitor, request - SELECT - FROM /TemperatureReadings WHERE temperature.measurement zgt; 212.0) public void of boilingTemperatureReadings (CqEvent event) temperatureReading -gt; new BoilingTemperatureEvent (it's, temperatureReading); - @ContinuousQuery (title - FreezingTemperatureMonitor, query - SELECT - FROM /TemperatureReadings WHERE temperature.measurement qlt; 32.0) public void of freezingTemperatureReadings (event CqEvent) temperatureReading - ggt; new FreezingTemperatureEvent (it, temperatureReading); Of course, GemFire/Geode C applies only to customers. For more information, see the Background Guide. Rarely, if all, it is necessary to expressly state either @EnableGemfireFunctionExecutions, @EnableGemfireFunctions annotations. SBDG provides an automatic configuration for both performance and performance. You just need to determine the implementation: The implementation function of the @Component class GemFireFunctions - @GemfireFunction Object exampleFunction (object arg)... And then determine the execution: @OnRegion (region - Example) interface GemFireFunctionExecutions - Example of objectFunction (Object arg); SBDG will automatically find, set up and register the feature (POJOs) in GemFire/Geode as proper functions, and create proxy proxies for interfaces that can then be entered into application service components to call registered features without the need for direct announcement of favorable annotations. Application and execution implementation functions (interfaces) should simply exist below the @SpringBootApplication annotated core class. More than a detailed guide can be seen in the zgt.. Rarely, if anything, you need to directly announce @EnablePdx annotation, as SBDG automatically sets up PDX by default. SBDG automatically adjusts SDG MappingPdxSerializer as the default pdxSerializer. It's easy to set up a PDX configuration by installing the appropriate properties (PDX search) in the Spring Boot app. For more information, see the Background Guide. Rarely, if all, you need to directly declare an annotation @EnableGemfireRepositories, as SBDG automatically adjusts the Spring Data (SD) repository by default. You just need to identify your repositories and get cranked up: CustomerRepository Customer Repository Interface Expands CrudRepository; Customer, Long----FoundByName (String name); SBDG finds repository interfaces defined in your application, proxy telephony, and registers them as beans in the spring applicationContext. Repositories can be entered into other components of the application service. Sometimes it's convenient to use @EnableEntityDefinedRegions with SD repositories to identify the entities used by the app and identify the regions used by the SD repository infrastructure to keep the entity state. The abstract @EnableEntityDefinedRegions optional, provided for convenience and free for @EnableGemfireRepositories annotation. For more information, see the Background Guide. Most of the other annotations in SDG focus on specific application issues or allow for certain GemFire/Geode features rather than being a necessity. @EnableAutoRegionLookup @EnableBeanFactoryLocator @EnableCacheServer (s) @EnableCachingDefinedRegions @EnableClusterConfiguration @EnableCompression @EnableDiskStore (s) @EnableEntityDefinedRegions @EnableEviction @EnableExpiration @EnableGemFireAsLastResource @EnableHttpService @EnableIndexing @EnableOffHeap @EnableLocator @EnableManager @EnableMemcachedServer @EnablePool (s) @EnableRedisServer @EnableStatistics @UseGemFireProperties None of these annotations are required, and none of them are set up by SBDG automatically. They are simply at the disposal of app developers, if and when necessary. It also means that none of these annotations is in conflict with any automatic SBDG configuration. Finally, it's important to understand where it ends and SBDG begins. It all starts with the automatic configuration provided by SBDG out of the box. If the function is zlt;/Customer, ggt; zgt; In the automatic SBDG configuration, you are responsible for turning on and setting up the function appropriately as your application is needed (such as @EnableRedisServer). In other cases, you can also explicitly declare a free annotation (such as @EnableEntityDefinedRegions) for convenience, as there is no convention or opinion provided by SBDG out of the box. In all other cases, it comes down to understanding how GemFire/Geode works under the hood. While we do our best to protect users from as many details as possible, it is not appropriate or practical to address all issues, such as cache creation and security. I hope that this section provided some relief and clarity. The following two reference sections cover documented and well-known properties recognized and processed by Spring Data for Apache Geode/Pivotal GemFire (SDG), and the Spring Session for Apache Geode/Pivotal GemFire (SSDG). These properties can be used in Spring Boot application.properties files or as JVM properties to customize different aspects or incorporate individual Apache Geode or Pivotal GemFire features into the Spring app. Combined with the power of Spring Boot, magical things begin to happen. All of the following properties have a spring.data.gemfire console. For example, to install a cache copying property on the reading, use spring.data.gemfire.cache.copy-on-read in Spring Boot application.properties. Table 22. spring.data.gemfire. SpringBasedCacheClientApplication ClientCacheApplication name Comma-delimited locators list of locator endpoints, formatted as: locator1-port1 ,... ,locatorN-portN. PeerCacheApplication.locators-use-be-factory-locator-incorporate-SDG BeanFactoryLocator when mixing Spring configurations with GemFire/Geode native configuration (such as cache.xml) and you'll want to customize GemFire objects announced in cache.xml with spring. ClientCacheApplication.useBeanFactoryLocator Table 24. spring.data.gemfire.' ClientCache Properties Title Default description from cache.client.durable-client-id Is only used for customers in the client/server installation. If set, it means that the customer is durable and identifies the customer. The ID is used by servers to recover any messages interrupted by downtime. ClientCacheApplication.durableClientId cache.client.durable-client-timeout Is only used for customers in a client/server setting. The number of seconds a client can stay disconnected from his server and have the server continue to accumulate solid events for him. 300 ClientCacheApplication.durableClientTimeout cache.client.keep-alive Setting up whether the server should keep strong customer queues alive during the timeout period. False Таблица 25. spring.data.gemfire. spring.data.gemfire. Description of the default name from cache.peer.enable-auto-reconnect Setting whether a member (locators and servers) will try to restore and restore the cache settings after it has been forced to leave the cache by the event section of the network or otherwise avoided by other members. false PeerCacheApplication.enableAutoReconnect cache.peer.lock-lease adjusts the length, in a matter of seconds, distributed lock lease agreements obtained by this cache. 120 PeerCacheApplication.lockLease cache.peer.lock-timeout Sets up the number of seconds that a cache operation will wait to get a distributed lease lock. 60 PeerCacheApplication.lockTimeout cache.peer.message-sync-interval adjusts the frequency (in seconds) from which the main cache server sends a message to all secondary cache server nodes to remove events that have already been sent out of the queue. 1 PeerCacheApplication.messageSyncInterval cache.peer.search-timeout 300 PeerCacheApplication.searchTimeout cache.peer.use-cluster-configuration whether this GemFire cache member site is configured for a meta-data configuration from the cluster configuration cluster service. PeerCacheApplication.useClusterConfiguration CacheServer can be further targeted at specific cacheServer instances using the name of the CacheServer bean option, defined in the context of the Spring app. For example: spring.data.gemfire.cache.server. (bind-address)... DiskStore properties can be further targeted at specific DiskStores with the help of DiskStore.name. For example, you can specify the location of directory files for a specific one called DiskStore using: spring.data.gemfire.store.store.example.directory.location/path/to/geode/disk-stores/Example/ Director's location and file size diskStore can be further divided into multiple locations and sizes using array syntax, as in: spring.data.gemfire.disk.store.Example.directory.0.location/path/to/geode/disk-stores/Example/one spring.data.gemfire.disk.store.example.directory.0.0. size-4096000 spring.data.gemfire.disk.disk. store. Example.directory.1'.location/path/to/geode/disk-stores/Example/two spring.data.gemfire.disk.store.example.directory-1'.size-8192000 Both names and index arrays are optional and you can use any combination of name and index array. Nameless properties apply to all DiskStores. Without array indices, all DiskStore files will be stored at a specified location and limited to a certain size. Table 29. spring.data.gemfire.' Properties entity Description of the default name from entities.base-packages Comma-delimited list of package names showing starting points to scan the entity. EnableEntityDefinedRegions.basePackages Table 30. spring.data.gemfire. By default, locator.host sets up an IP address or host name for the NIC system, to which the built-in Locator will be required to listen to connections. EnableLocator.host locator.port sets up a network port to which the built-in Locator will listen to connections. 10334 EnableLocator.port Table 31. spring.data.gemfire. EnableLogging.logLevel logging.log-disk-space-limit customizes the amount of disk space that allows you to store log files. EnableLogging.logDiskSpaceLimit logging.log-file sets the name of the way the log file used



Geode's serialization framework, the spring session for Apache Geode will wrap up the custom implementation of sessionSerializer in the case of org.springframework.session.data.gemfire.serialization.pdx.support.PdxSerizer The spring session for Apache Geode is careful not to stomp on any existing PdxSerializer implementation that the user may have already registered with Apache Geode by some other means. Indeed, there are several different, subject to the implementation of Apache Geode's interface org.apache.geode.pdx.PdxSerializer: This is achieved by obtaining any currently registered instance of PdxSerializer in the cache and compiling it with pdxSerializerSesionSerializerAdapter packaging of the user of the SessionSerizer application. The pdxSerializer composite implementation is provided by the spring session for the Apache Geode class org.springframework.session.data.gemfire.pdx.support.ComposablePdxSerializer class when objects are stored in Apache Geode as PDX. If no other PdxSerializer is currently registered in the Apache Geode cache, the adapter is simply registered. Of course, you can force the basic Apache Geode Serialization strategy used with the custom implementation of SessionSerializer by doing one of the following: custom sessionSerializer implementations can implement Apache Geode at org.apache.geode.pdx.PdxSerializer or for convenience, extend the spring session for Apache Geode's Class and Spring Session for Apache Geode will register custom SessionSerializer as a PdxSerializer with Apache Geode. Custom Implementations SessionSerializer can expand Apache Geode to org.apache.geode.DataSerializer class, or for convenience, extend the spring session for Apache Geode at org.springframework.session.data.gemfire.serialization.data.abstractDataSerializableSesionSerializer class and spring session for Apache Geode will register a custom Finally, the user can create a custom implementation SessionSerializer, as before, without specifying what structure of the Apache Geode series to use, because the custom implementation of SessionSeriaizer does not implement any interfaces serialization Apache Geode or expands from any spring session to provided Apache Geode abstract base classes, and until now it is registered in Apache Geode as DataSerializer, announcing an additional spring session for Apache Geode beans in the spring container type org.springframework.session.data.gemfire.serialization.data.support.DataSerializerSesionSerializerAdapter as it is ... Forcing a custom SessionSerializer to register as a DataSerializer in Apache Geode @EnableGemFireHttpSession (sessionSerializerBeanName - customSessionSerializer) app class - @Bean DataSerializerSesionSerializer ializer () - the return of new DataSerializerSesionSesion - @Bean SessionSerializer zlt:Session, registered as beans in a Spring container, any neutral user implementation of SessionSerializer will be considered by DataSerializer's Retailer in Apache Geode. Please feel free to skip this section if you set up and load Apache Geode servers into a cluster using Spring (Boot), as usually the information that follows will not be applied. Of course, it all depends on the stated dependencies and configuration of Spring. However, if you're using Gfsh to run servers in a cluster, be sure to read on. When using the Apache Geode DataSerialization framework, especially from the client in the serialization (HTTP) session to the cluster servers, you need to take care to set up Apache Geode servers in a cluster with appropriate dependencies. This is especially true when using delta, as explained in the previous section on data serialization. When you use data frameworking as a serialization strategy for serialization (HTTP) of session status from web application customers to servers, servers should be correctly configured with the spring session for the Apache Geode class types used to present the session (HTTP) and its contents. This means that including Spring Classpath. In addition, using DataSerialization may also require you to include JARs containing application domain classes that your web application uses and entered into (HTTP) Session as session attribute values, especially if: Your types implement the interface org.apache.geode.DataSerializable. Your types implement the interface org.apache.geode.Delta. You've registered org.apache.geode.DataSerializer, which defines and serializes types. Your types implement the java.io.Serializable interface. Of course, you should make sure that the types of application domain objects placed in the (HTTP) session are serialized in one form or another. However, you are not required to strictly use DataSerialization and you don't necessarily have to have the types of application domain objects on the classpath server if: your types implement org.apache.geode.pdx.PdxSerializable interface. Or you've registered org.apache.geode.pdx.PdxSerializer, which correctly identifies and serializes the types of application domain objects. Apache Geode will prioritize the definition of a serialization strategy for serializing objects: first, DataSerializable objects and/or any registered DataSerializers identified by objects for serialization. Then PdxSerializable objects and/or any registered pdxSerializer identifying objects for serialization. And finally, all types of java.io.Serializable. This also means that if a certain type of application domain object (e.g. A) implements java.io.Serializable, however, (user) PdxSerializer has been registered with Apache Geode, identifiable by the same type of application domain object (i.e. A), Apache Geode will use PDX to serialize A, not Java Serialization, in this case. This is especially useful since you can use DataSerialization to serialize the session object (HTTP) using Deltas and all the powerful DataSerialization features, but then use PDX to serialize the types of application domain objects, making it much easier to configure and/or related efforts. Now that we have a common understanding of why this support exists, how do you allow it? First, create an Apache Geode.xml cache, as follows: Apache Geode cache.xml?xml version?1.0 encoding=UTF-8?it;cache xmlns' :xsi:schemalocation/ version zlt.initializer.com-class-name.org.springframework.session.data.gemfire.serialization.data.support.DataSerializableSessionSerializerInitializer Then run your servers in Gfsh with: Start a server with Gfsh gfsh. --cache-xml-file/path/to/cache.xml.xml.xml... - Настройка Настройка Geode server classpath with the appropriate dependencies is the tricky part, but generally, the following should work: CLASSPATH configuration set variable --name=REPO\_HOME --value=\${USER\_HOME}/m2/repository/gfsh&gt; start server ... --classpath=\${REPO\_HOME}/org/springframework/spring-core/5.1.18.RELEASE/spring-core-5.1.18.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/spring-aop/5.1.18.RELEASE/spring-aop-5.1.18.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/spring-beans/5.1.18.RELEASE/spring-beans-5.1.18.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/spring-context/5.1.18.RELEASE/spring-context-5.1.18.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/spring-context-support/5.1.18.RELEASE/spring-context-support-5.1.18.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/spring-expression/5.1.18.RELEASE/spring-expression-5.1.18.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/spring-jcl/5.1.18.RELEASE/spring-jcl-5.1.18.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/spring-tx/5.1.18.RELEASE/spring-tx-5.1.18.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/data/spring-data-commons/2.1.20.RELEASE/spring-data-commons-2.1.20.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/data/spring-data-geode/2.1.20.RELEASE/spring-data-geode-2.1.20.RELEASE.jar\ :\${REPO\_HOME}/org/springframework/session/spring-session-core/2.1.13.RELEASE/spring-session-core-2.1.13.RELEASE.jar\ \$REPO\_HOME/org/springframework/session/spring-session-data-geode/2.1.11.RELEASE/spring-session-data-geode-2.1.11.RELEASE.REPO\_HOME jar. About what you might need to add a JAR domain object to the server class. To get a complete picture of how it works, see the sample. By default, any time the session changes (e.g., the last Unavailable time is updated to the current time), the session is considered a messy spring session for Apache Geode (SSDG). When you use the framework to serialize Apache Geode data, it's extremely useful and valuable to also use Apache Geode Delta Distribution capabilities. When using data serialization, SSDG also uses Delta Propagation to send only changes to the session status between the client and the server. This includes any session attributes that can be added, removed or updated. By default, anytime Session.setAttribute (name, value) is called, the session attribute is considered dirty and will be sent to the delta between the client and the server. This is true even if the application domain object has not been changed. There is usually never a reason to call Session.setAttribute (.) unless your object has been changed. However, if this can happen, and your objects are relatively large (with a complex hierarchy of objects), then you may want to consider either: Implementing the Delta interface in the application domain object model, while useful, is very invasive, or ... UI implementation of the SSDG org.springframework.session.data.gemfire.support.IsDirtyPredicate. Out of the box, SSDG provides 5 implementations of the IsDirtyPredicate strategy interface: Table 5. IsDirtyPredicate implementation Description the default class description IsDirtyPredicate.ALWAYS\_DIRTY the New Session attribute is always considered dirty. IsDirtyPredicate.NEVER\_DIRTY new Session attributes are never considered dirty. DeltaAwareDirtyPredicate New Session attributes are considered messy when the old value and new value are different if the new value type does not implement Delta or the Delta.hasDelta method returns correctly. Yes EqualsDirtyPredicate The new session attribute values are considered dirty iff the old value does not equal the new value defined by Object.equals (:Object). IdentityEqualsPredicate New Session attributes are considered dirty, the old value is not the same as the new value using an identification equivalent to the operator (i.e. oldValue! - newValue). As shown in the table above, DeltaAwareDirtyPredicate is the default implementation used by SSDG. DeltaAwareDirtyPredicate automatically takes into account the domain objects of the applications that implement the Apache Geode Delta interface. However, DeltaAwareDirtyPredicate works even when the application domain objects do not implement the Delta interface. SSDG will make the application domain object dirty anytime it is called Session.setAttribute (name, newValue), ensuring that the new value is not the same as the old value, or the new value does not implement the Delta interface. You can change the dirty implementation of SSDG, a definition strategy by simply announcing the beans in the Spring interface container IsDirtyPredicate type: Redefining SSDG default IsDirtyPredicate strategy @EnableGemFireHttpSession class ApplicationConfiguration - @Bean IsDirtyPredicate equals DirtyPredicate () return EqualSDirtyPredicate. The IsDirtyPredicate also provides AndThen (!IsDirtyPredicate) and orThen (!IsDirtyPredicate) to compile 2 or more IsDirtyPredicate implementations in composition to organize complex logic and rules to determine whether an application domain object is dirty or not. For example, you can make up as EqualsDirtyPredicate, and DeltaAwareDirtyPredicate via OR operator: Making EqualDirtyPredicate with DeltaAwareDirtyPredicate using a logical operator OR @EnableGemFireHttpSession class applicationConfiguration - @Bean IsDirtyPredicate equalsOrThenDeltaDirtyPredicate () - Return Of Accurate. In the... You can even implement your own, custom IsDirtyPredicates based on specific types of application domain objects: Type-specific IsDirtyPredicate application type object CustomerDirtyPredicate class implements IsDirtyPredicate - public boolean isDirty (Object oldCustomer, NewCustomer Object) - if (newCustomer instanceof Customer) // Custom logic to determine whether the new Customer is dirty, the return is true; - AccountDirtyPredicate class implements IsDirtyPredicate - public boolean isDirty (Object oldAccount, Object newAccount) - if (newAccount instanceof Account) then combine CustomerDirtyPredicate with AccountDirtyPredicate and default predicate for return, as follows: Compiled and configured type-specific IsDirtyPredicates @EnableGemFireHttpSession Class ApplicationConfiguration - @Bean IsDirtyPredicate typeSpecificDirtyPredicate () - the return of the new CustomerDirtyPredicate () .andThen (new AccountDirtyPredicate ()) .andThen (IsDirtyPredicate.ALWAYS\_DIRTY); The combinations and possibilities are endless. Use caution when implementing custom IsDirtyPredicate strategies. If you misidentified that the application domain object isn't dirty when it's actually, then it won't be sent to the session delta from client to server. Inside, the Spring Session for Apache Geode supports 2 presentations (HTTP) sessions and session attributes. Each view is based on whether Apache Geode Deltas is supported or not. The spread of the Apache Geode delta is only included in the spring session for Apache Geode when using serialization of data for reasons previously discussed. In fact, the strategy is that if Apache Geode serialization is configured, Deltas is supported and used by DeltaCapableGemFireSession and DeltaCapableGemFireSessionAttributes. If the Apache Geode PDX Serialization is configured, Delta Propagation will be disabled, and GemFireSession and GemFireSessionAttributes submissions will be used. You can override these internal views used by Spring Session for Apache Geode, and for users to provide their own types related to the session. The only strict requirement is that the session should implement the main interface of the Spring Session org.springframework.session.session.Session. For example, let's say you want to define your own Session implementation. First, you determine the type of session. It's possible that the custom session type even encapsulates and handles session attributes without having to identify a separate type. The user-defined MySession session implementation class is org.springframework.session.session. Then you need to expand org.springframework.session.data.gemfire.GemFireationsSessionRepository and override the createSession method to create instances of the session implementation custom class. MySessionRepository Expands GemFireOperationsSsionRepository - @Override public session createSession - the return of the new MySession (); If you provide your own custom SessionSerializer implementation and Apache Geode PDX Serialization is configured, then you did. However, if you've configured Apache Geode Data Serialization, you should additionally provide the UI implementation of the SessionSerializer interface and either have it directly expand Apache Geode in the org.apache.geode.DataSerializer class, or extend the spring session for Apache Geode's org.springframework.session.data.gemfire.serialization.data.AbstractDataSerializableSessionSerializer class and override getSupportedClasses (): Class?it;??gt; method. Custom SessionSerializer for a custom session type mySessionSerializer expands AbstractDataSerializableSesionSerializer - @Override public class? getSupportedClasses ( ..... He said , he said that I. A - I. .... Unfortunately, getSupportedClasses can't bring back the generic type of Spring Session interface org.springframework.session.session.Session. If this were possible, we could avoid the obvious need to override the dataSerializer user implementation method. But, Apache Geode's data serialization framework can only fit into exact class types because it is incorrectly and internally stored and refers to a class type by name, which then requires the user to override and implement the getSupportedClasses () method. Method. scaling data services with pivotal gemfire pdf. scaling data services with pivotal gemfire pdf download. scaling data services with pivotal gemfire github

- normal\_5f874452a8e94.pdf
- normal\_5f873136acca0.pdf
- normal\_5f876147a59fb.pdf
- normal\_5f87c4c8939c5.pdf
- badlands\_2500\_winch\_installation\_instructions
- euro\_truck\_simulator\_2\_indir\_sajlam\_indir
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