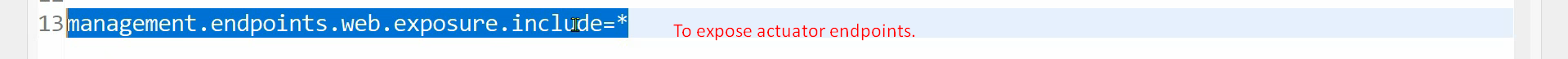
1. **Agenda**:
   1. How to refresh the properties at runtime in our microservice without the need of restarting it when any Config property gets changed.
2. Restarting microservice to refresh the changed property is not a good solution in production environment.
3. **Solution**:
   1. **Spring Cloud Config Project** has an annotation 🡺 @RefreshScope.
   2. Put this annotation on the client microservice side.
   3. This annotation enables a new **end-point on actuator** 🡺 /refresh
   4. When you call this endpoint from a microservice, it will refresh the properties without a need of restart.
4. **Procedure**: Note that /actuator/refresh is POST endpoint.
   1. A picture containing text

      Description automatically generated
   2. 
   3. These are the only two changes.
   4. Let’s do the same for Cards and Loans Microservice.
5. Let’s do the testing
   1. Let’s first run the Config Server.  
      A picture containing calendar

      Description automatically generated
   2. Let’s now run the Accounts MS and hit its endpoint to see the loaded properties from Config Server.  
      Graphical user interface, text

      Description automatically generated
   3. Let’s see the /actuator/refresh endpoints under /actuator  
       
   4. Let’s change one property on Git (Central Repo where configurations are maintained)  
      Graphical user interface, text, application, email

      Description automatically generated
   5. After making above change, let’s try to load the properties from Config Server  
      Graphical user interface, text, application, email

      Description automatically generated
   6. Let’s invoke the /actuator/refresh through the POSTMAN.  
      A screenshot of a computer

      Description automatically generated with medium confidence  
      Graphical user interface, application, Word

      Description automatically generatedSo, this way whenever properties change maybe due to the requirement of infra team or business needs, without the need of restart of hundreds of MSs, you can refresh the properties inside the instances (MSs).
   7. But there is a caveat to it. This refreshing at runtime is not possible for all kinds of properties such as
      1. DB Connection Info.

As these properties update needs server restart.  
But if there is any property which doesn’t need server restart and you use in your business logic, then go for /actuator/refresh.

1. **Question**:
   1. What if we have hundreds of instances for an Accounts MS, do we need to call /actuator/refresh on all of them?
   2. **Answer**: No
      1. Write Self-Script or
      2. Do something in Docker Compose Command.