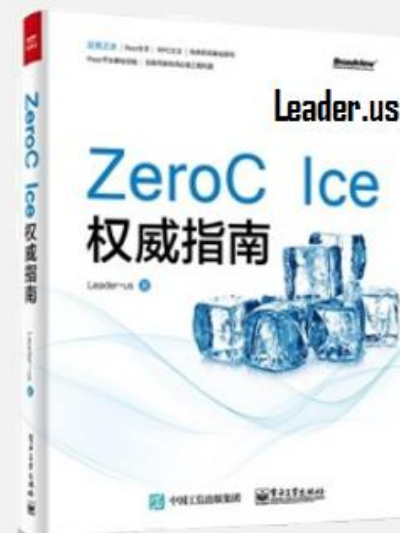


ZeroC Ice微服务架构企业应用实践指南

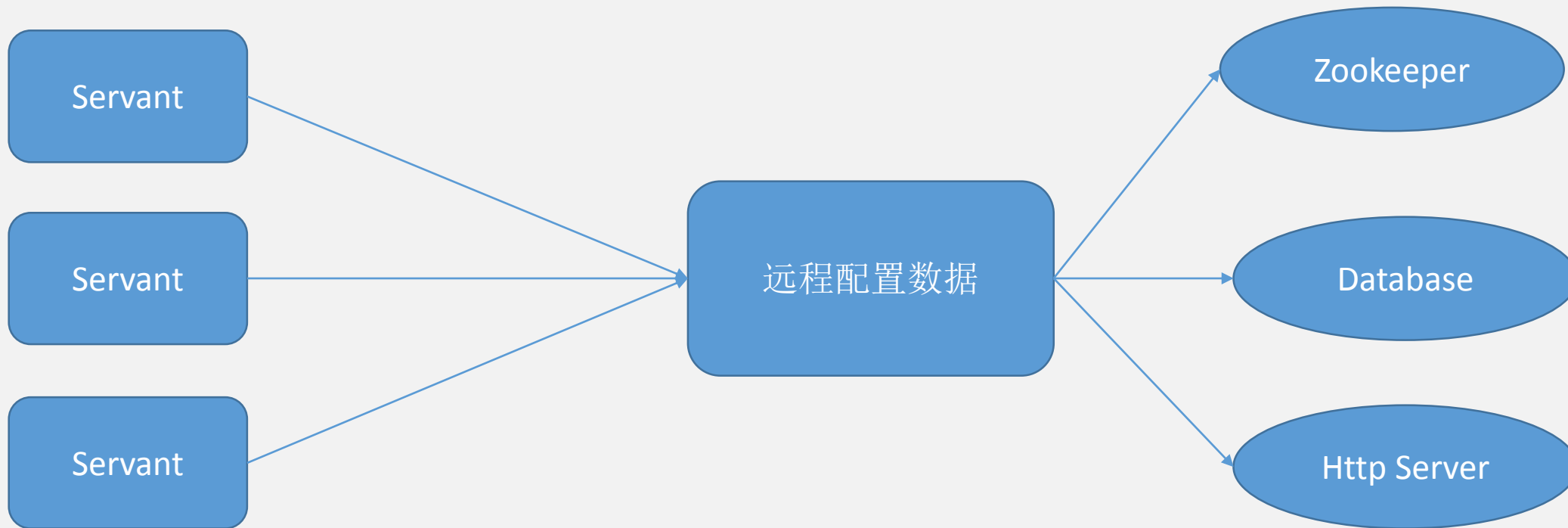
八：Mycat Ice企业框架（下）



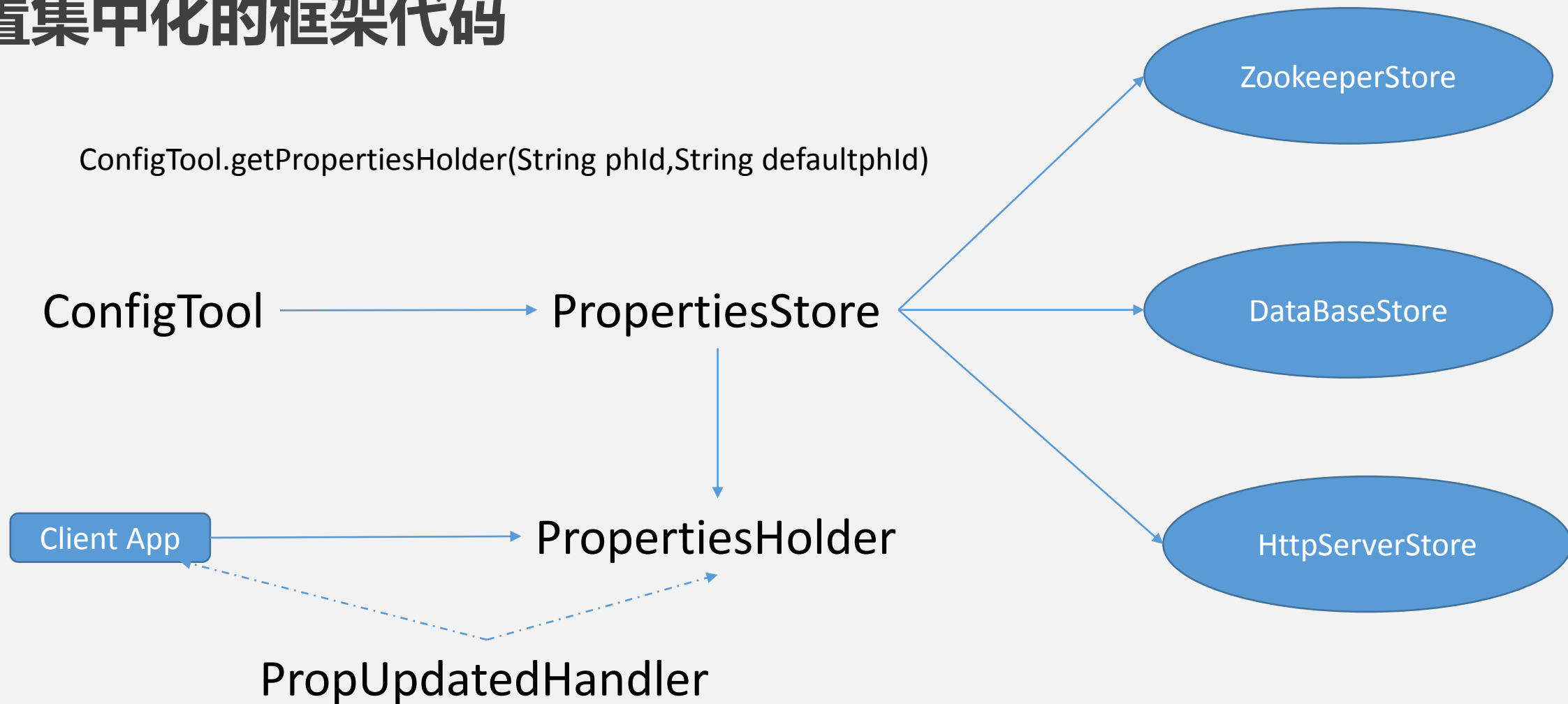
本集视频主要内容

- 配置集中化的框架代码
- 远程动态加载服务代码
- Servant生命周期接口

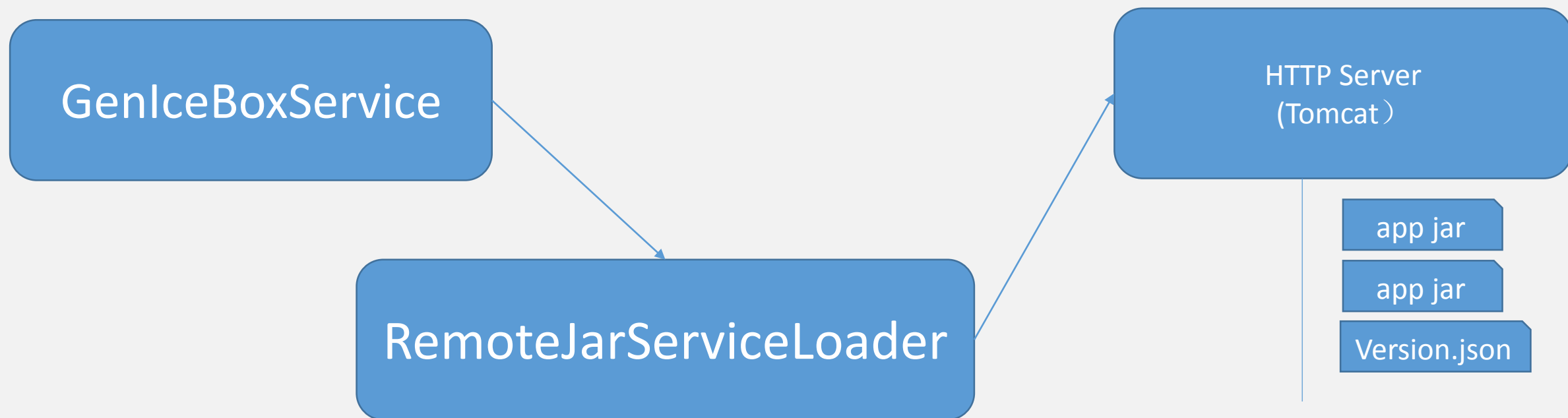
配置集中化的思路



配置集中化的框架代码



远程动态加载服务代码



程序中用的Jar包分为公共部分以及每个Servant私有的两种，存放在一个Web Server里，各个节点都可以访问

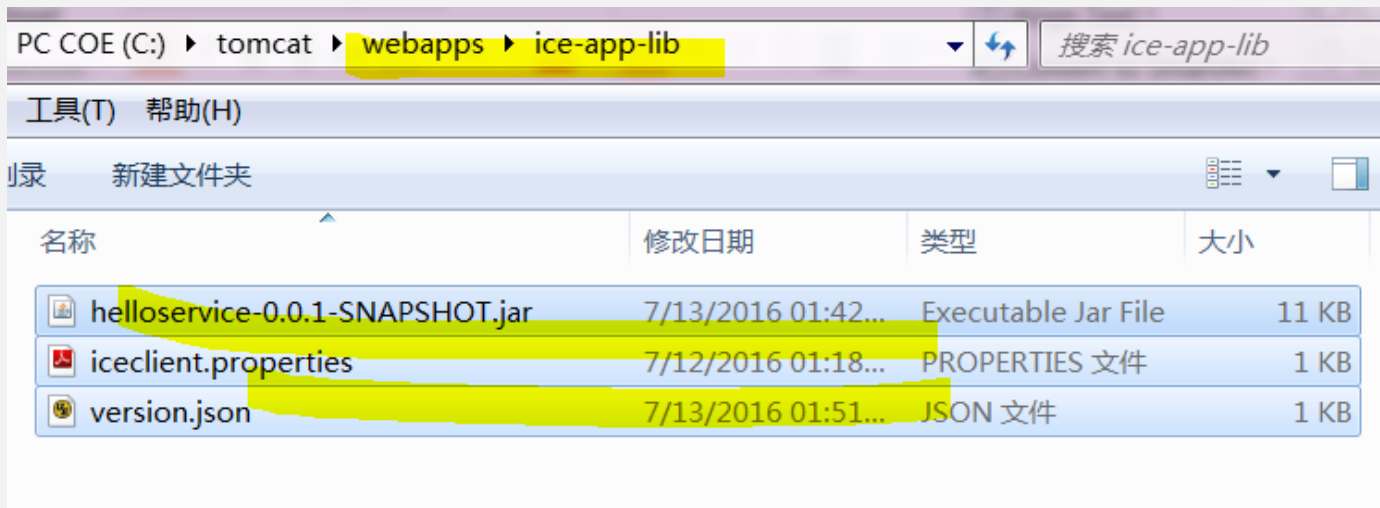
Grid.xml配置

```
<properties id="LoadJarProps">
  <property name="LoadJarsFromRemote.Enabled" value="true"/>
  <property name="LoadJarsFromRemote.Site" value="http://localhost:8080/ice-app-lib"></property>
  <property name="LoadJarsFromRemote.SharedJars" value="iceclient.properties"></property>
  <property name="LoadJarsFromRemote.AutoUpdate" value="true"></property>
</properties>
<server-template id="MyHelloServerTemplate">
  <parameter name="id" />
  <icebox id="MyHelloServer${id}" exe="java" activation="on-demand">
    <properties>
      <properties refid="props" />
    </properties>
    <option>io.mycat.ice.server.Sl4jIceBoxServer</option>
    <env>CLASSPATH=C:\ZeroC\Ice-3.6.1\lib\*;C:\project\Ice_8\bin;C:\project\Ice_8\starter-lib\*</env>
    <service name="MyService" entry="io.mycat.ice.server.GenIceBoxService">
      <properties>
        <properties refid="LoadJarProps" />
        <property name="servantClassName" value="com.my.demo.MyServiceImpl" />
        <property name="myjars" value="helloservice" />
        <property name="jdbc_url" value="jdbc://mysql:localhost" />
      </properties>
      <adapter name="MyService" id="MyService${id}" endpoints="default"
        replica-group="MyServiceRep">
      </adapter>
    </service>
  </icebox>
</server-template>
```

使用指导

程序中的Jar包整理出来，放入一个Tomcat
编写version.json文件，记录Ice Servant的Jar文件的版本信息
修改grid.xml，启用远程动态加载能力

重新发布程序



名称	修改日期	类型	大小
helloservice-0.0.1-SNAPSHOT.jar	7/13/2016 01:42...	Executable Jar File	11 KB
iceclient.properties	7/12/2016 01:18...	PROPERTIES 文件	1 KB
version.json	7/13/2016 01:51...	JSON 文件	1 KB

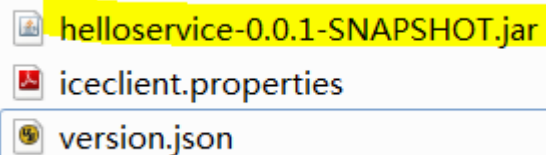
```
>>> application list
>>> application create c:\project\ice-8\grid.xml
>>> server list
MyHelloServer1
>>> server start MyHelloServer1
```

使用指导（二）

version.json

```
{"helloservice":"0.0.1-SNAPSHOT"}
```

```
<properties>
  <properties refid="LoadJarProps" />
  <property name="servantClassName" value="com.my.demo.MyServiceImpl" />
  <property name="myjars" value="helloservice" />
  <property name="jdbc_url" value="jdbc://mysql:localhost" />
</properties>
<adapter name="MyService" id="MyService${id}" endpoints="default"
  replica-group="MyServiceRep">
  </adapter>
</service>
```



helloservice-0.0.1-SNAPSHOT.jar
iceclient.properties
version.json

使用指导（三）

19:04:38.436 [main] INFO io.mycat.ice.server.GenIceBoxService - load jars from remote for service MyService

19:04:38.687 [main] INFO i.m.i.server.RemoteJarServiceLoader - load remote jars for MyService,from http://localhost:8080/ice-app-lib ,jars:helloserviceiceclient.properties

19:04:38.702 [main] INFO com.my.demo.MyServiceImpl - create jdbc pool for jdbc://mysql:localhost

19:05:41.802 [main] INFO io.mycat.ice.server.GenIceBoxService - MyService service started successful,class name:com.my.demo.MyServiceImpl

Servant生命周期接口

```
package io.mycat.ice.server;
import Ice.ObjectAdapter;
public interface ServantLifecycle {
    /**
     * Servant提供服务之前会被触发此接口调用，可
    以用于初始化资源，比如建立连接池等
     */
    public void init(ObjectAdapter adapter);
    /**
     * Servant被销毁的时候触发此调用，用于释放资
    源
     */
    public void destroy();
}
```

Servant生命周期接口Demo

```
public class MyServiceImpl extends _MyServiceDisp implements ServantLifecycle {  
    private static final long serialVersionUID = 1L;  
    private static org.slf4j.Logger logger = LoggerFactory.getLogger(MyServiceImpl.class);  
    @Override  
    public String hellow(Current __current) {  
        return "Hello world";  
    }  
    @Override  
    public void init(ObjectAdapter adapter) {  
        String jdbcURL = adapter.getCommunicator().getProperties().getProperty("jdbc_url");  
        logger.info("create jdbc pool for " + jdbcURL);  
    }  
    @Override  
    public void destroy() {  
        logger.info("close jdbc pool ");  
    }  
}
```

下一集：Docker方式部署IceGrid

谢谢

THANK YOU

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