

Security in Java

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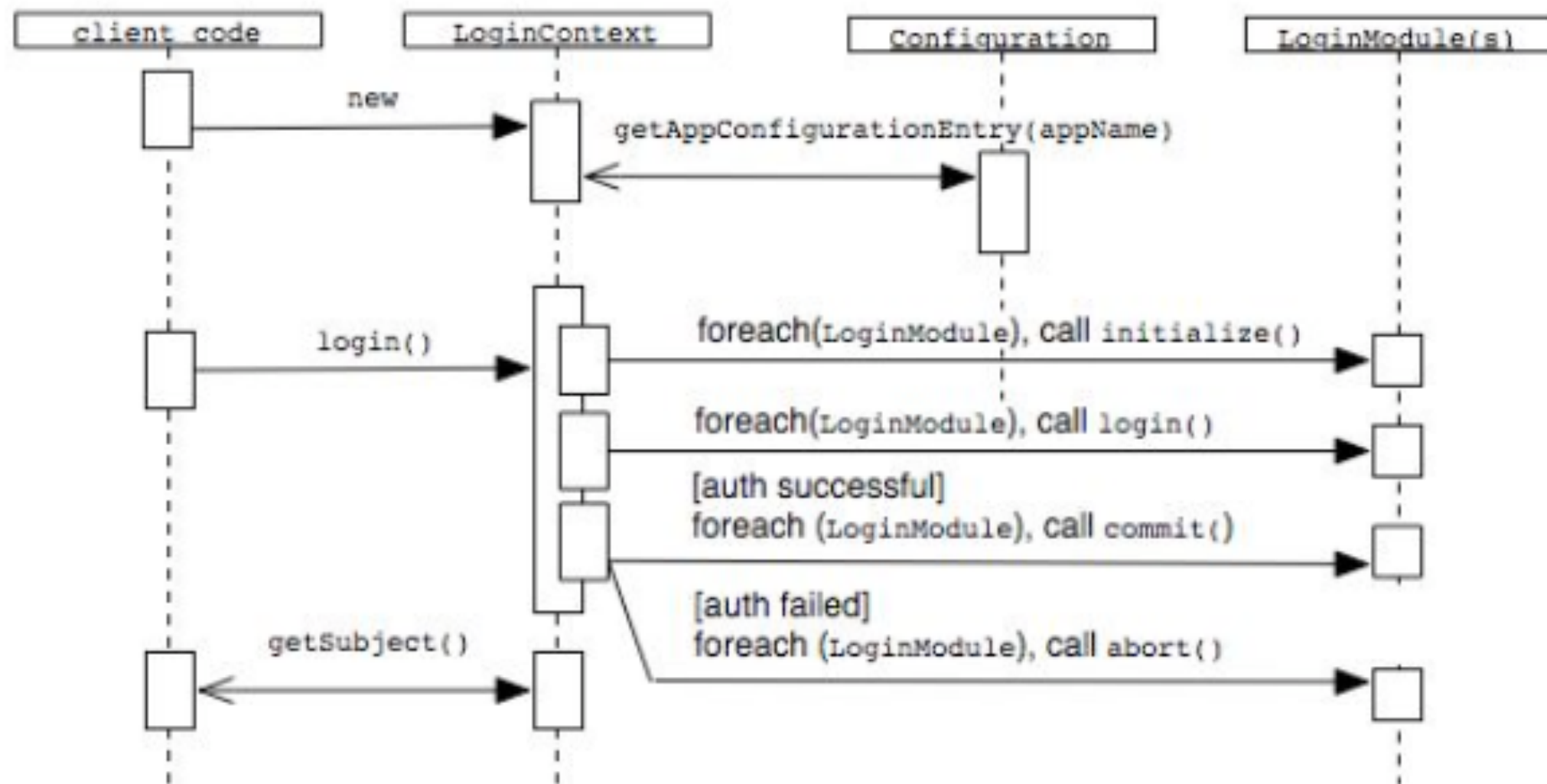


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J A A S

- In J2SE 1.4
- LoginContext
- CallbackHandler
- LoginModule(s)

JAAS: auth-lifecycle



JEE7 - Security

- Config:
 - `web.xml`
 - EJB Deployment descriptor
- Code annotation
 - `@RolesAllowed("SuperAdmin")`

JEE 7 - web.xml

- **<login-config>**
 <realm-name>**my-realm**</realm-name>
 <auth-method>BASIC</auth-method>
</login-config>
- **<security-role>**
 <role-name>**user**</role-name>
</security-role>
- **<security-constraint>**
 <web-resource-collection>
 . . .
 </web-resource-collection>
 <auth-constraint>
 <role-name>**user**</role-name>
 </auth-constraint>
</security-constraint>
- **<session-config><cookie-config>**
 <http-only>true</http-only><secure>true</secure>
</cookie-config></session-config>

Servlets

- `HttpServlet` for Login and Logout
- Authenticate on request login
 - `HttpServletRequest.login()`
- override the cookie on logout, destroy the session

Wildfly

- Define a new security domain

`[wildfly-root]/standalone/configuration/standalone.xml`

or interactive (see `JEE7-Demo: config_wildfly.sh`)

- defines where to find the principals & roles
- Define the security domain in the app

`[WEB-INF]/jboss-web.xml`

```
<jboss-web>  
  <security-domain>my-realm<security-domain>  
</jboss-web>
```

Exercises, Reading, etc.

+ Wildfly + JEE7:

<https://www.examsmyantra.com/article/119/javaee/form-based-login-authentication-in-javaee7-with-wildfly-and-mysql>

+ JEE7-Demo:

[JEE7-Demo]/docker-config/appserver/
config_wildfly.sh