

Webinar

J2EE Security with Apache SHIRO

16th April, 2013



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IT is about you



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Agenda



- Authentication, Authorization, Session Management and Cryptography
- Introduction on market trending security framework
- Discussion on market trending security framework
- Grails inbuilt security
- Live Demo on integrating shiro security with grails web application
- Conclusion
- Q&A

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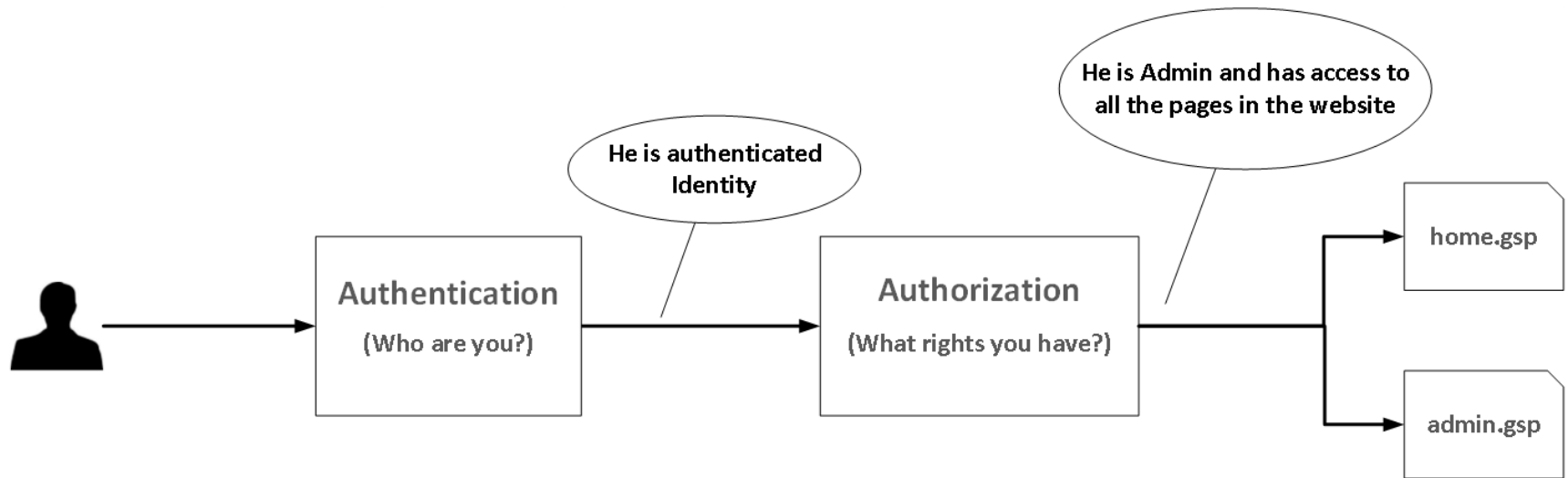
What is Authentication, Authorization & Session Mgmt.?

- Key cornerstones in the security of a system.
- Authentication and authorization are two very related, and yet separate, concepts.
- Where Authentication deals with identifying a user, the Authorization determines what a user is allowed to do.



- **Authentication:** prove genuineness
- **Authorization:** process of granting approval or permission on resources.
- **Session Management:** Session management means authenticate once and confirms on every action that the user is the one who provided the original credentials.

What is Authentication, Authorization & Session Mgmt.?



Designers and developers should leverage **authorization, authentication and session management capabilities** as much as possible.

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Introduction on market trending security framework



Java Authentication and Authorization Service or JAAS



Spring Security



Apache Shiro Security

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Discussion on market trending security framework

JAAS Security Configuration Steps:

- 1 Javax.security to be imported.
- 2 Implement LoginModule Interface
- 3 Override methods like initialize, login, commit, abort, logout.
- 4 Implement call back handlers
- 5 Implement privilege action
- 6 Configure jaas policy files
- 7 Implement Filters

Discussion on market trending security framework

Spring Security Configuration Steps:

- 1 Install spring core libraries
- 2 Install spring security libraries
- 3 Create & Configure spring-security.xml file in class path.
- 4 Provide @secured annotation above methods based on the privileges

Discussion on market trending security framework

Shiro Security Configuration Steps:

- 1 Install shiro libraries and required libraries to project
- 2 Create and configure shiro.ini file in class path
- 3 Provide roles and privileges in shiro.ini

Discussion on market trending security framework

Shiro	Spring Security	JAAS
Simplicity	Bit Complicated (Not easily fathomable)	More complicated.
Enterprise session management is supported	Not Supported	Not supported
Better cryptography	simplified cryptography	
Grails plugin available	Grails plugin available	Grails plugin is not available
Work and Gel with every environment Spring is not mandatory	Dependent on Spring core libraries	Part of Java and can work and get with every environment

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Grails inbuilt security



- GORM - SQL escaped to prevent SQL injection attacks
- The default scaffolding templates HTML escape all data fields when displayed
- Link creating tags use appropriate escaping mechanisms to prevent code injection
- Codecs to prevent injection attacks.

Grails inbuilt security

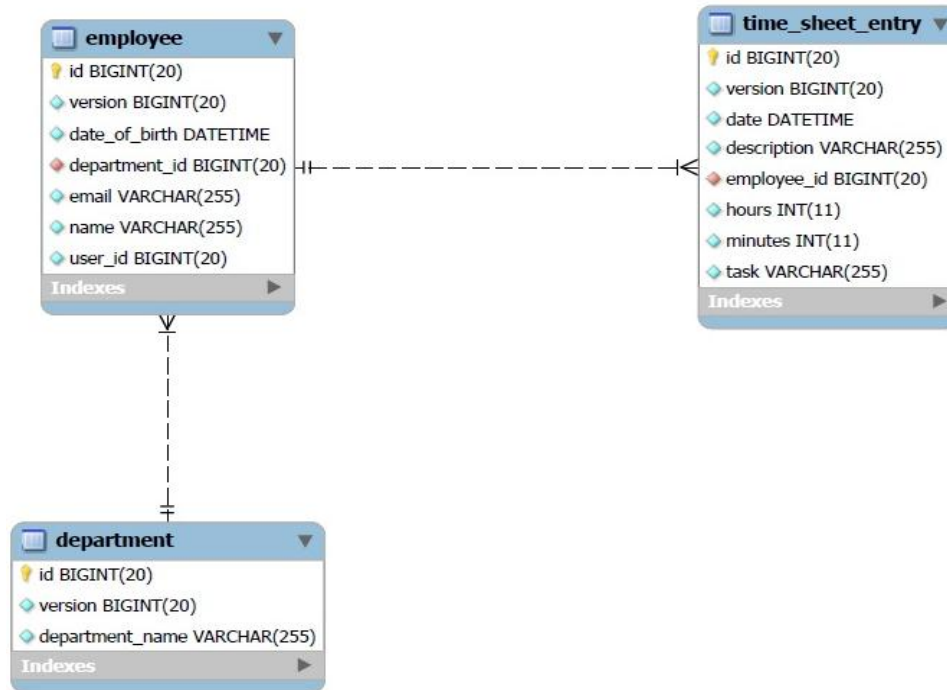
```
class SecurityFilters {  
    def filters = {  
        loginCheck(controller: '*', action: '*') {  
            before = {  
                if (!session.user && actionName != "login") {  
                    redirect(controller: "user", action: "login")  
                    return false  
                }  
            }  
        }  
    }  
}
```

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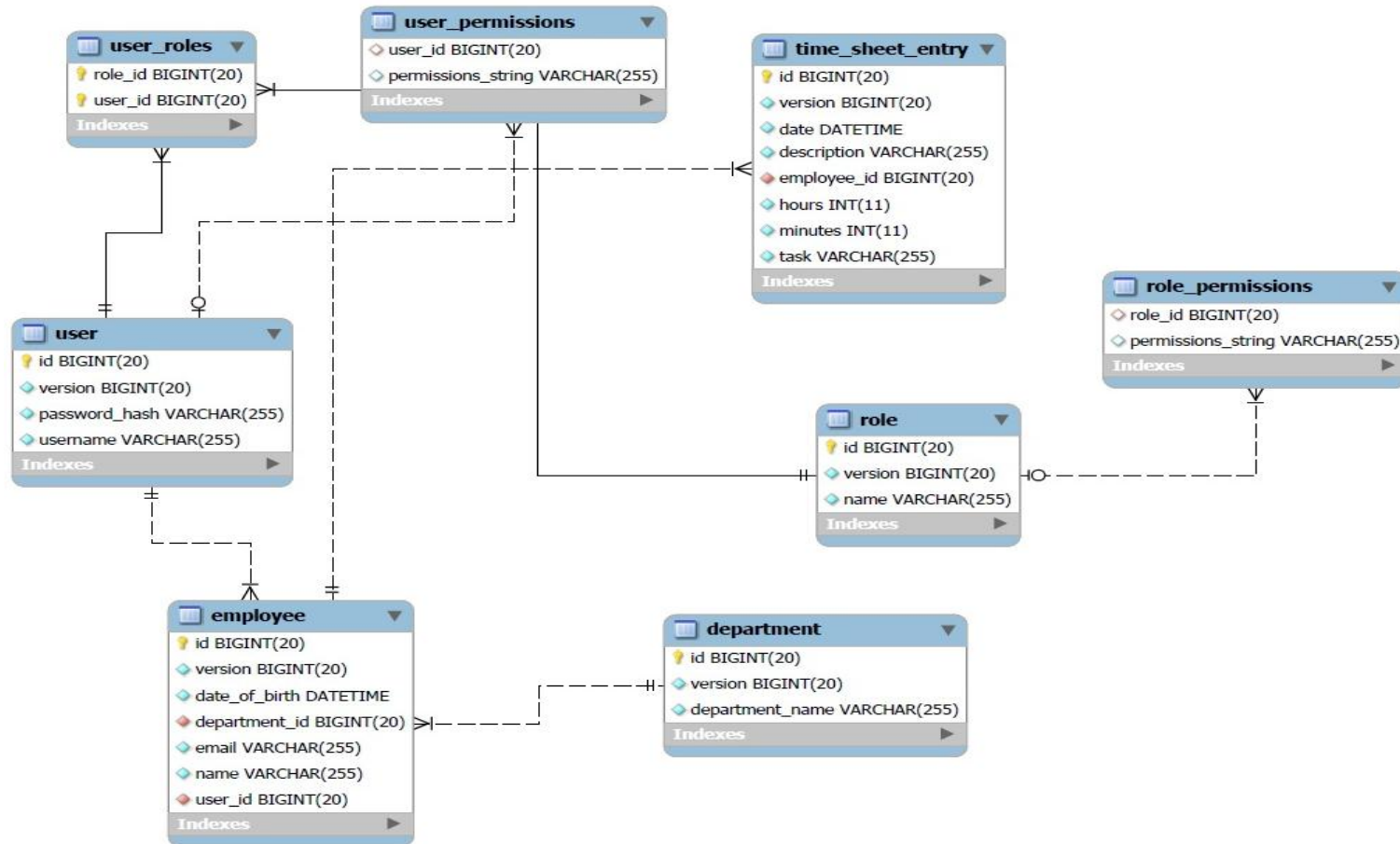
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Integrating shiro security with existing application



Application Diagram without SHIRO

Integrating shiro security with existing application



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Conclusion



With shiro it is quite easy to configure security, shiro takes care of most of the issues through its default settings, existing Java security mechanisms like JAAS, Spring security are too confusing, complex etc.



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Questions and Answers

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