

Vývoj Aplikácií s Viacvrstvovou Architektúrou

Bezpečnosť a Java



Čo nás čaká a neminie...

1. časť

Úvod do Javy

Štruktúra platformy

Vývojové technológie

Kolekcie

Logovanie

Lokalizácia

2. časť

NIO.2, IO, XML

Regulárne výrazy

Modularita

JDBC

Bezpečnosť

Prehľad JEE a .NET

Ako na bezpečnosť v Jave?

ISACA COBIT (IT Audítor)



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proof of accreditation

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Certifikačný orgán systémov manažérstva
PQM, s.r.o.
Trieda SNP 75, 974 01 Banská Bystrica



OSVEDČENIE

❖ ❖ Ing. Miroslav Reiter ❖ ❖

narodený 31. 05. 1988

úspešne absolvoval školenie

Zoznámenie sa s normou

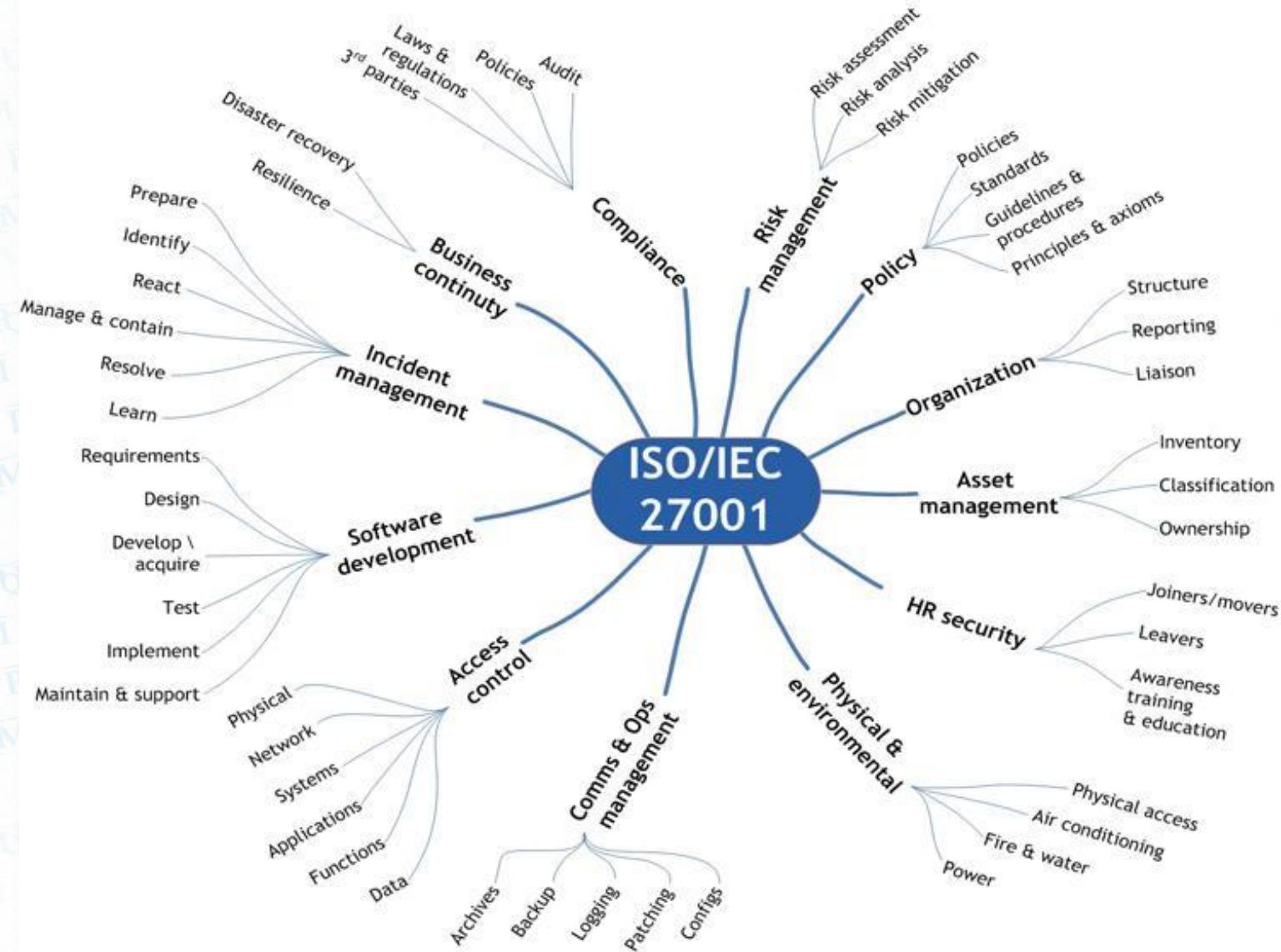
ISO/IEC 27001:2013

Účastníci sú vyškolení na radu noriem 27000,
so zameraním sa na normy 27000 - 27005

- ❖ Termín: 27. 07. 2015
- ❖ Miesto konania: Bratislava
- ❖ Evidenčné číslo: 048/15
- ❖ V rozsahu:
- ❖ Lektor: Ing. Ľuboš Snopek

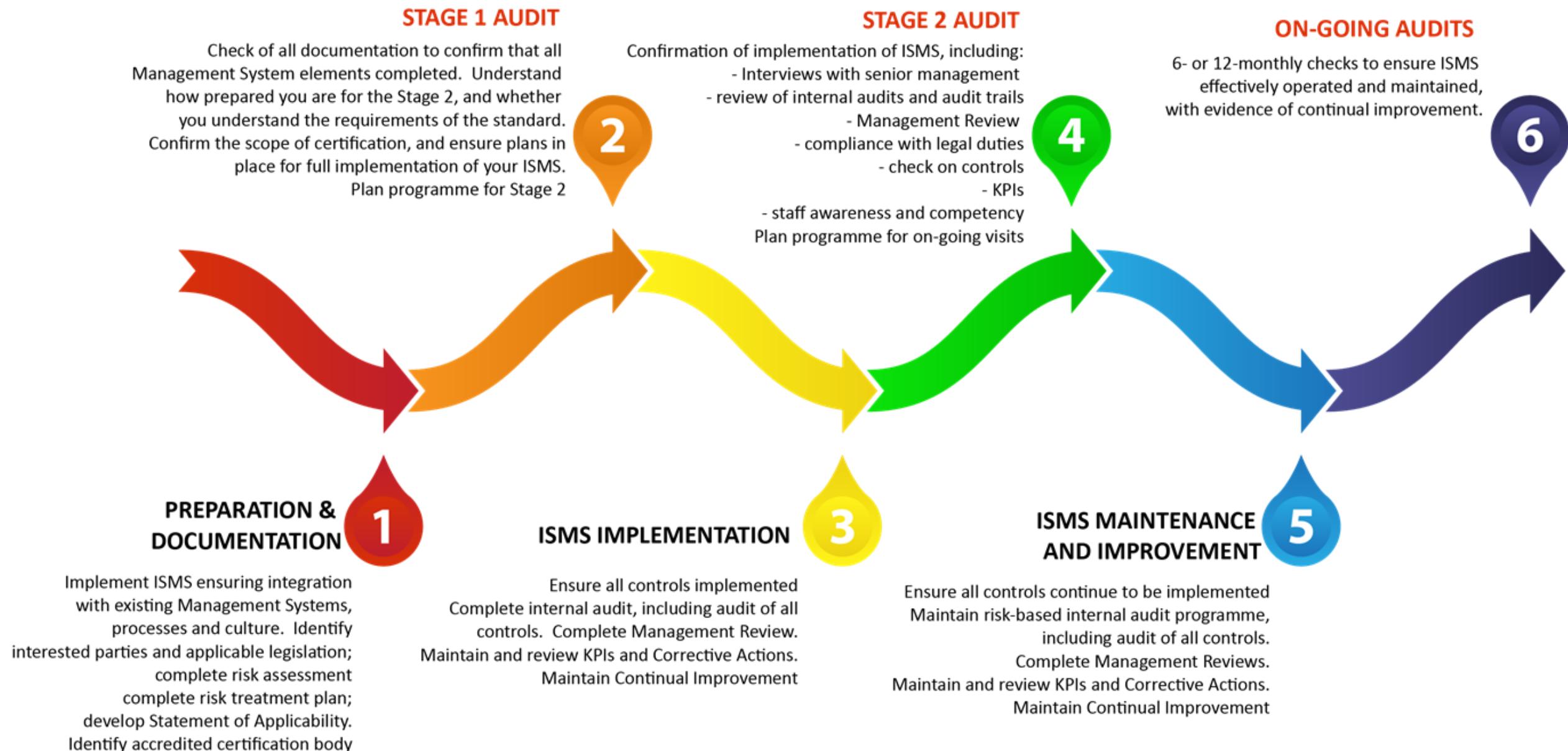
Ing. Ľuboš Snopek
lektor

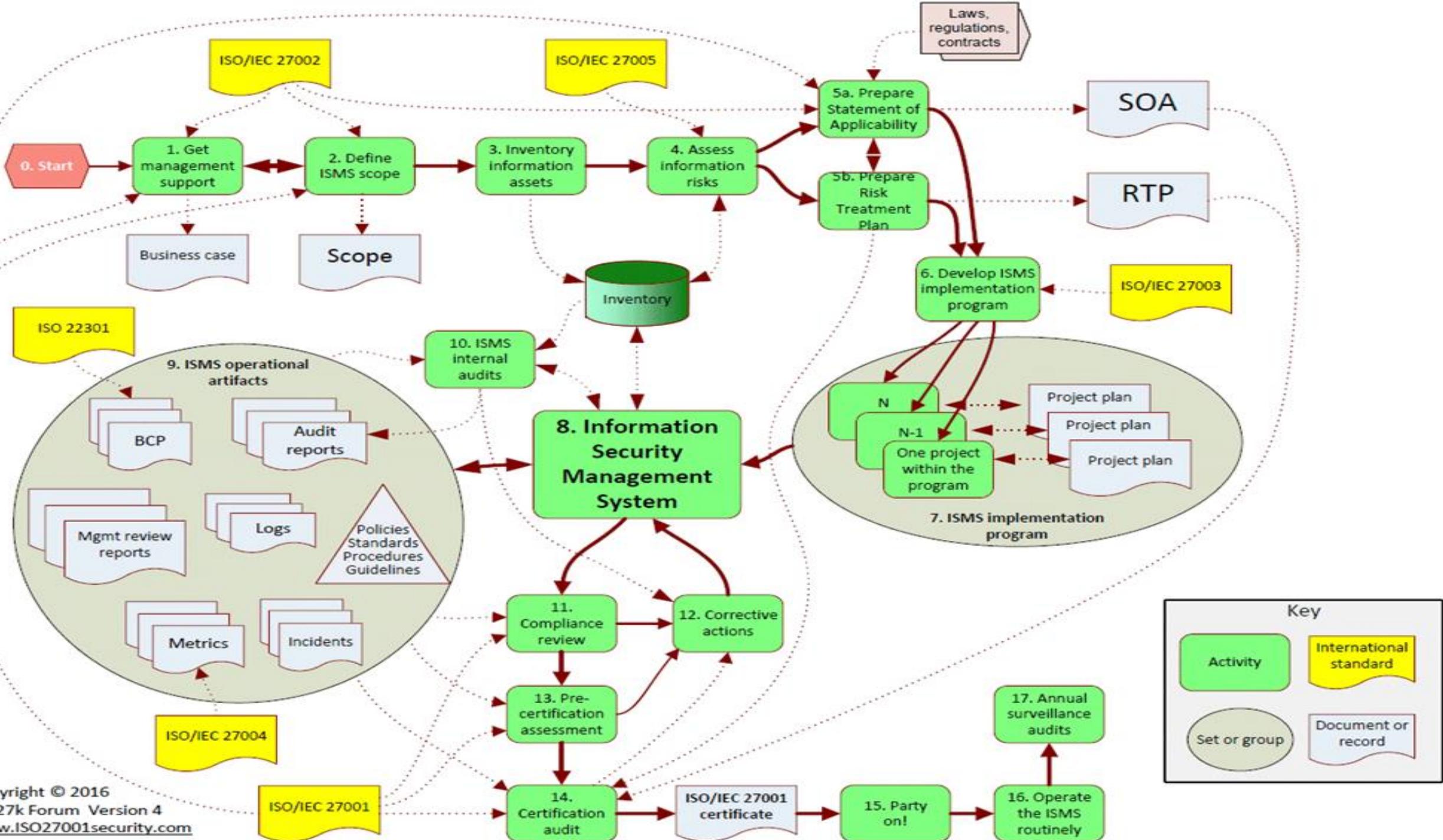
Ing. Ľuboš Snopek
za PQM, s.r.o.



ISO 27001 CERTIFICATION PROCESS

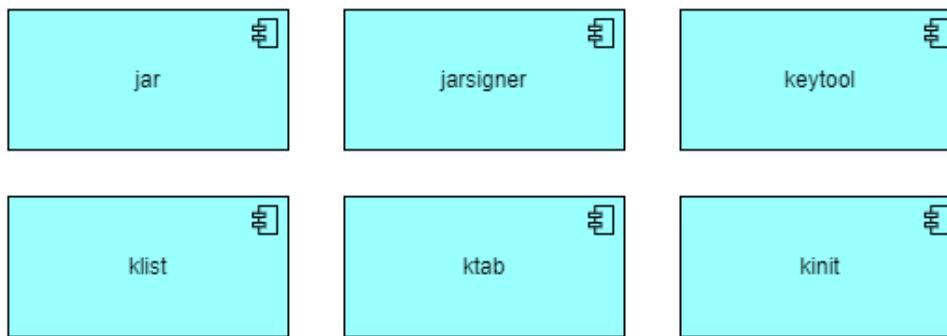
RED = certification body





Java aplikáčné komponenty

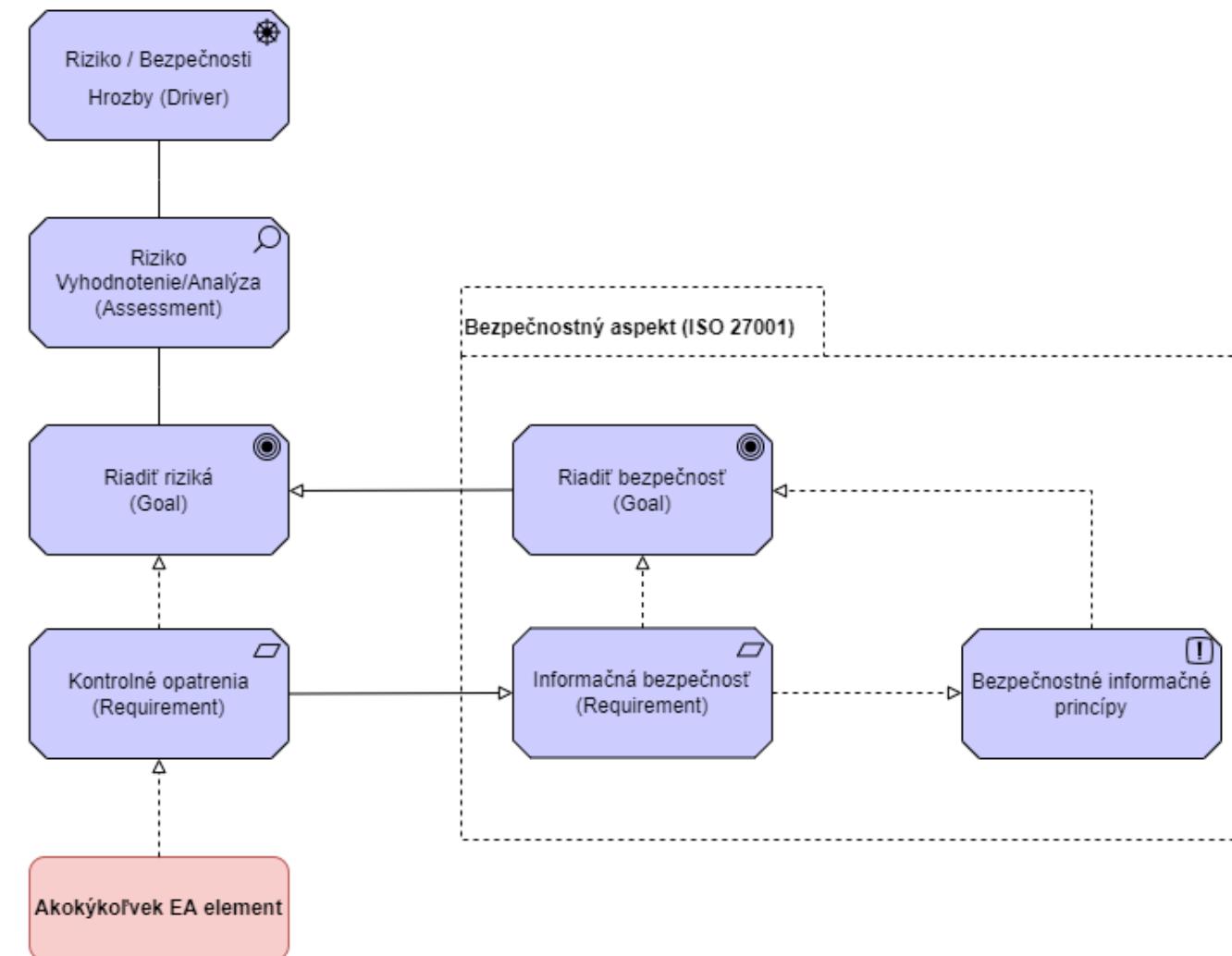
Nástroje



API, Knižnice



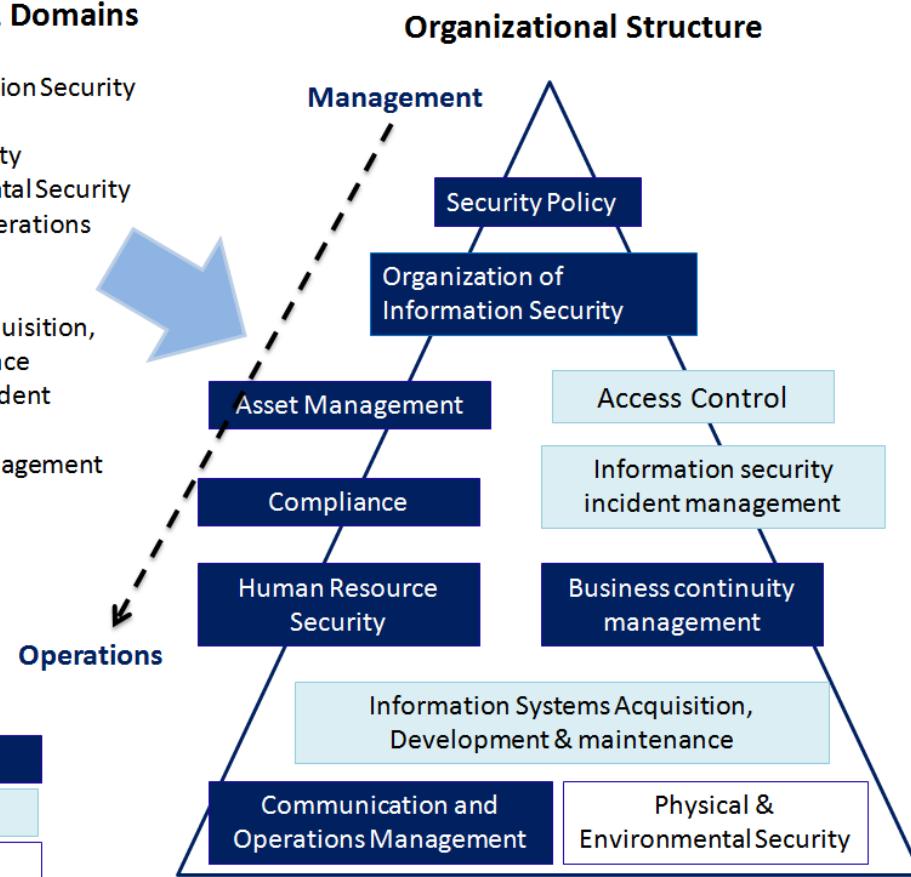
Security and Risk View



Organizačná štruktúra a norma

The 11 ISO/IEC 27001 Domains

- Security Policy
- Organization of Information Security
- Asset Management
- Human Resources Security
- Physical and Environmental Security
- Communications and operations management
- Access control
- Information Systems Acquisition, Development & maintenance
- Information security incident management
- Business Continuity Management
- Compliance



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Section of ISO/IEC 27002:2013																		
R = Responsible A = Accountable S = Supportive C = Consulted I = Informed																		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23																		
Information Asset Owners Staff Managing Director/CEO ISMS Steering Committee Information Security Manager Operations Security Team Head of HR Head of Legal, Compliance & DP Head of Procurement Facilities Management Head of IT/CIO Head of R&D Head of Finance Head of xx XX Dept																		
5.1.1	5.1.2	5.1.3	5.1.4	5.1.5	5.1.6	5.1.7	5.1.8	5.1.9	5.1.10	5.1.11	5.1.12	5.1.13	5.1.14	5.1.15	5.1.16	5.1.17	5.1.18	5.1.19
C C	I S	C A	S R	A S	R S	S C	S S	C S	S S	C S								
6.1.1	6.1.2	6.1.3	6.1.4	6.1.5	6.1.6	6.1.7	6.1.8	6.1.9	6.1.10	6.1.11	6.1.12	6.1.13	6.1.14	6.1.15	6.1.16	6.1.17	6.1.18	6.1.19
A A	I I	A A	C C	R C	C C	S S	S S	C C	R R	S S	R R	S S	C C	C C	C C	C C	C C	C C
7.1.1	7.1.2	7.1.3	7.1.4	7.1.5	7.1.6	7.1.7	7.1.8	7.1.9	7.1.10	7.1.11	7.1.12	7.1.13	7.1.14	7.1.15	7.1.16	7.1.17	7.1.18	7.1.19
A A	I I	A A	R R	S S	S S	S S	S S	R R	S S	S S	R R	S S	C C	R R	S S	R R	C C	S S
8.1.1	8.1.2	8.1.3	8.1.4	8.1.5	8.1.6	8.1.7	8.1.8	8.1.9	8.1.10	8.1.11	8.1.12	8.1.13	8.1.14	8.1.15	8.1.16	8.1.17	8.1.18	8.1.19
A A	I I	A A	R R	S S	S S	S S	S S	R R	S S	S S	R R	S S	C C	R R	S S	R R	C C	S S



CERTIFICATE OF RECOGNITION



Miroslav Reiter

Oracle Certified Associate, Java SE 7 Programmer

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ORACLE CERTIFIED ASSOCIATE.

December 31, 2015

DATE

A handwritten signature in black ink that appears to read "Damien Carey".

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SENIOR VICE PRESIDENT, ORACLE UNIVERSITY



The Open Group Certified: ArchiMate® 3 Foundation

ISSUED TO

Miroslav Reiter



Issued On: 13 JUN 2019 | Issued By: The Open Group
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TOGAF Enterprise Architektúra



This is to certify that

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Certification Number: 148319

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Expiry date **N/A**

Certificate number **GR639005478MR**

Candidate number **9980019812301667**

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Candidate number **9980019812301667**

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Panorama Theleriti, Certification Qualifier, PeopleCert

ITIL 4 Edition

Printed on 5 August 2019

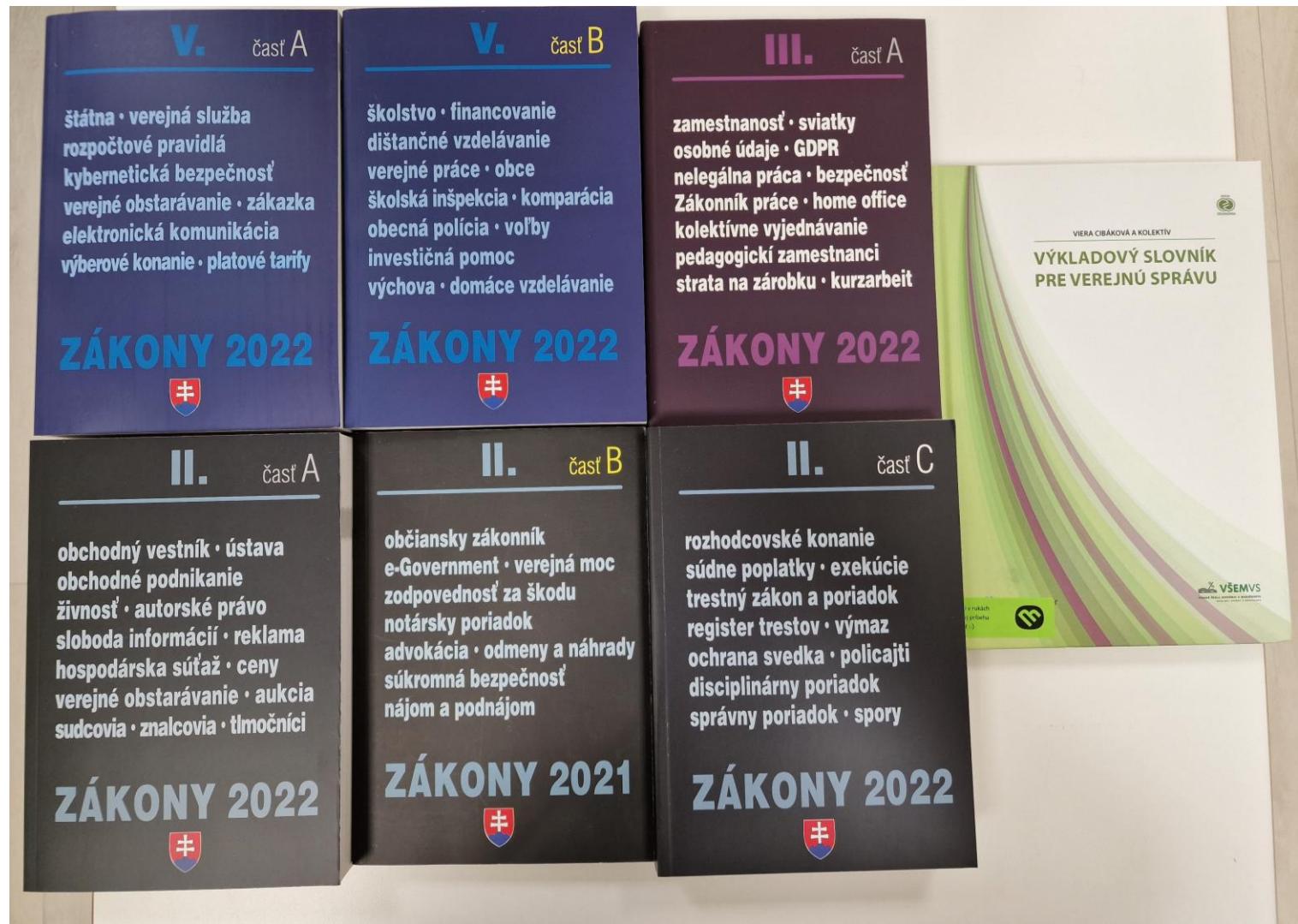
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Áno, aj zákony
treba študovať...

Ako si precvičiť bezpečnosť v Jave?

1. Havij/VEGA
2. OWASP
3. **Codebashing**
4. SQL Injections
5. JavaSnoop
6. ProGuard/JODE

Java

Learn about the OWASP Top 10 covering all aspects including the vulnerability, why it happens, exploits and defenses.

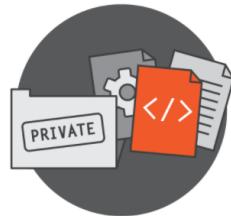
All Completed Not Completed Search...

 Share

SQL Injection
SQL Injection is a type of application security vulnerability whereby a malicious user is able to manipulate the SQL statements that the application sends to the backend database server for execution. A successful SQL injection attack exposes the data of the underlying database directly to the attacker. Play and Learn...
CWE | O10 | SANS


5-8 MIN | CHALLENGE

 Share

XXE Processing
XML External Entity (XXE) Processing is a type of application security vulnerability whereby a malicious user can attack poorly configured/implemented XML parser within an application. Malicious external entity references can be forced by an attacker, which results in unauthorized read-access to sensitive files on the server that the XML parser runs from. Denial of Service is another potential outcome. Play and Learn...
CWE | O10


5-8 MIN | CHALLENGE

 Share

Command Injection
A Command Injection vulnerability, when exploited by a malicious

CWE | O10

A
Ajax
Aspect-Oriented

Open Source Obfuscators in Java

ProGuard

ProGuard is a free Java class file shrinker and obfuscator. It can detect and remove unused classes, fields, methods, and attributes. It can then rename the remaining classes, fields, and methods using short meaningless names. The resulting jars are smaller and harder to reverse-engineer.

[Go To ProGuard](#)

JODE

JODE is a java package containing a decompiler and an optimizer for java. The optimizer transforms class files in various ways which can be controlled by a script file. It supports the following operations:

- * Renaming class, method, field and local names to shorter, obfuscated, or unique names or according to a given translation table
- * Removing debugging information
- * Removing dead code (classes, fields, methods) and constant fields
- * Optimizing local variable allocation

[Go To JODE](#)

JavaGuard

JavaGuard is a general purpose bytecode obfuscator, designed to fit effortlessly into your regular build and testing process, providing peace of mind that your valuable Java code is more secure against decompilation and other forms of reverse engineering.

[Go To JavaGuard](#)

RetroGuard

The RetroGuard bytecode obfuscator modifies the contents of your class files in such a way that their behaviour is unaffected, while minimizing the amount of information from the source code that is exposed. A side effect of obfuscation is that the class size is reduced, leading to faster download times for your Java applets and applications.

[Go To RetroGuard](#)

jarg

The jarg reduces the size of a jar file in which java class files are stored. \"Size curtailment can be carried out simply\" is the 1st target. However, as a result of processing by jarg, since a Java class file is optimized, it becomes quicker, and since it is renamed, it becomes harder to be analyzed. That is, jarg is 'Java Optimizer', and it is 'Java Obfuscator' and is also 'Java Shrinker' or 'Java Reducer'.

[Go To jarg](#)

yGuard

yGuard is an improved version of RetroGuard that comes with an ant task.

[Go To yGuard](#)

D
Databases

E

E
EJB Servers
ERP & CRM
ESB
Expression Languages

[Go To RetroGuard](#)

F
Forum Soft

G

G
General Purpose
Groupware

[Go To jarg](#)

H
HTML Parsers

[Go To yGuard](#)

I
IDEs

Shrink your Java and Android code

Use ProGuard, Guardsquare's open-source shrinker for Java bytecode, to enhance and optimize your code.

[Join The Guardsquare Community](#)[Download ProGuard](#)

A

- Ajax
- Aspect-Oriented

Open Source Code Analyzers in Java

B

- Bloggers
- Build Systems
- ByteCode

FindBugs

FindBugs looks for bugs in Java programs. It can detect a variety of common coding mistakes, including thread synchronization problems, misuse of API methods, etc.

[Go To FindBugs](#)

C

- CMS
- Cache Solutions
- Charting & Reporting
- Chat Servers
- Code Analyzers
- Code Beautifiers
- Code Coverage
- Collections
- Connection Pools
- Crawlers

QJ-Pro

QJ-Pro is a comprehensive software inspection tool targeted towards the software developer. Developers can automatically inspect their Java source code and improve their Java programming skills as they write their programs. QJ-Pro provides descriptive Java patterns explaining error prone code constructs and providing solutions for it.

[Go To QJ-Pro](#)

D

- Databases

PMD

PMD scans Java source code and looks for potential problems like:

- * Unused local variables
- * Empty catch blocks
- * Unused parameters
- * Empty 'if' statements
- * Duplicate import statements
- * Unused private methods
- * Classes which could be Singletons
- * Short/long variable and method names

[Go To PMD](#)

E

- EJB Servers
- ERP & CRM
- ESB
- Expression Languages

JLint

Jlint will check your Java code and find bugs, inconsistencies and synchronization problems by doing data flow analysis and building the lock graph.

[Go To JLint](#)

F

- Forum Soft

Hammurapi

Hammurapi is an open source code inspection tool. Its release comes with more than 100 inspectors which inspect different aspects of code: Compliance with EJB specification, threading issues, coding standards, and much more.

[Go To Hammurapi](#)

G

- General Purpose
- Groupware

DoctorJ

DoctorJ analyzes Java code, in the following functional areas:

- * documentation verification
- * statistics generation
- * syntax analysis

[Go To DoctorJ](#)

H

- HTML Parsers

Condenser

Condenser is a tool for finding and removing duplicated Java code. Unlike tools that only locate duplicated code, the aim of Condenser is to also automatically remove duplicated code where it is safe to do so.

I

- IDEs

SQL jazyk - DCL

- **GRANT** – pridelenie práv
- **REVOKE** – odňatie práv

```
40  
41 -- GRANT  
42 GRANT SELECT, INSERT, UPDATE, DELETE ON Employees TO almir  
43  
44 -- REVOKE  
45 REVOKE INSERT ON Employees TO almir  
46  
47 -- DENY  
48 DENY UPDATE ON Employees TO almir  
49
```

Použite NOT NULL ak môžete

From MySQL docs:

"NULL columns require additional space in the row to record whether their values are NULL. For MyISAM tables, each NULL column takes one bit extra, rounded up to the nearest byte."

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Entity Framework

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PL/SQL

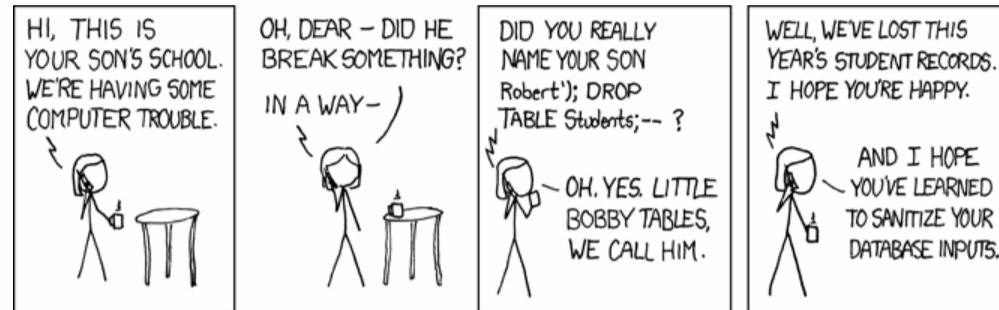
PostgreSQL

Python

R

Who is Bobby Tables?

From the webcomic [xkcd](#)



School: Hi, this is your son's school. We're having some computer trouble.

Mom: Oh, dear -- Did he break something?

School: In a way. Did you really name your son `Robert');` `DROP TABLE Students;`-- ?

Mom: Oh. Yes. Little Bobby Tables we call him.

School: Well, we've lost this year's student records. I hope you're happy.

Mom: And I hope you've learned to sanitize your database inputs.

Examples

See the sidebar to the left for your specific language.

Other languages

This site's is available under a [Creative Commons license](#) and may be freely translated on other sites. Other sites:

- [Czech: bobby-tables.cz](#)

Bobby Tables: A guide to preventing SQL injection

> Java

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Java

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JDBC

The [JDBC API](#) has a class called `PreparedStatement` which allows the programmer to safely insert user-supplied data into a SQL query. The location of each input value in the query string is marked with a question mark. The various `set*` methods are then used to safely perform the insertion.

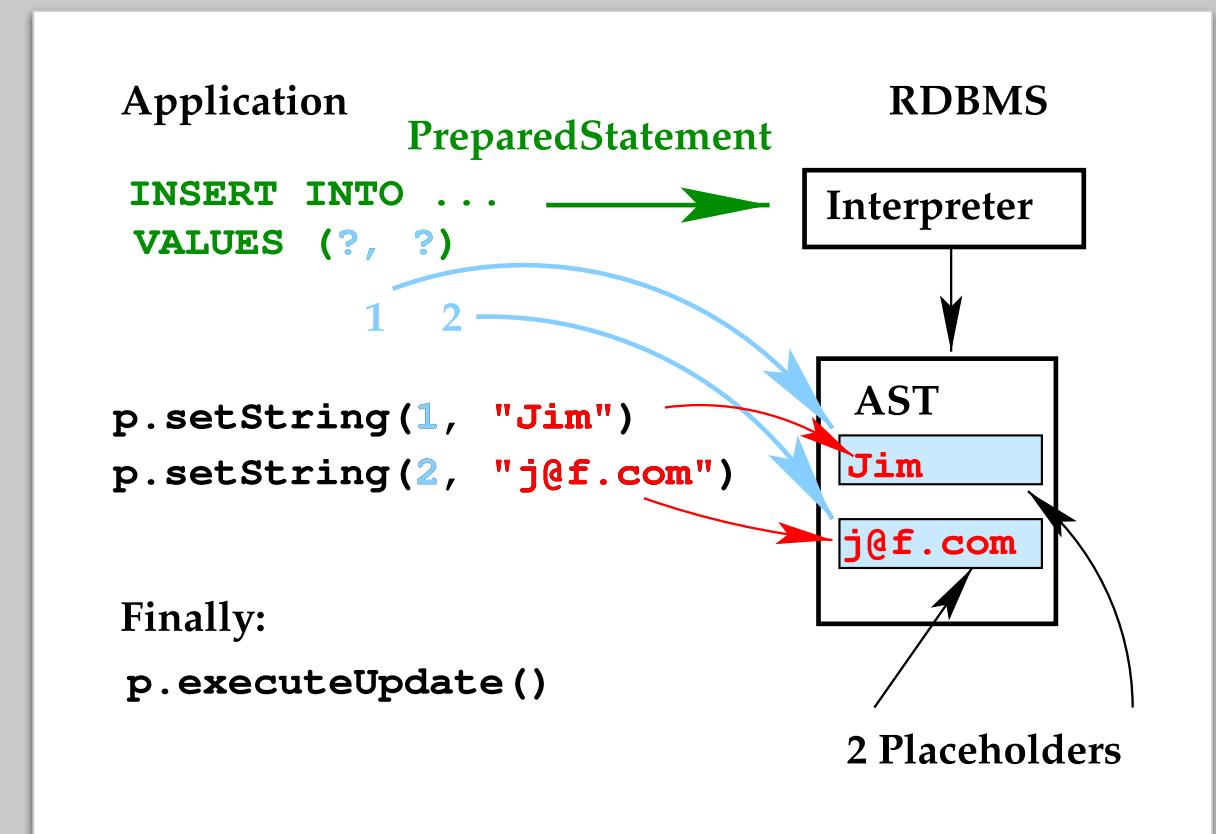
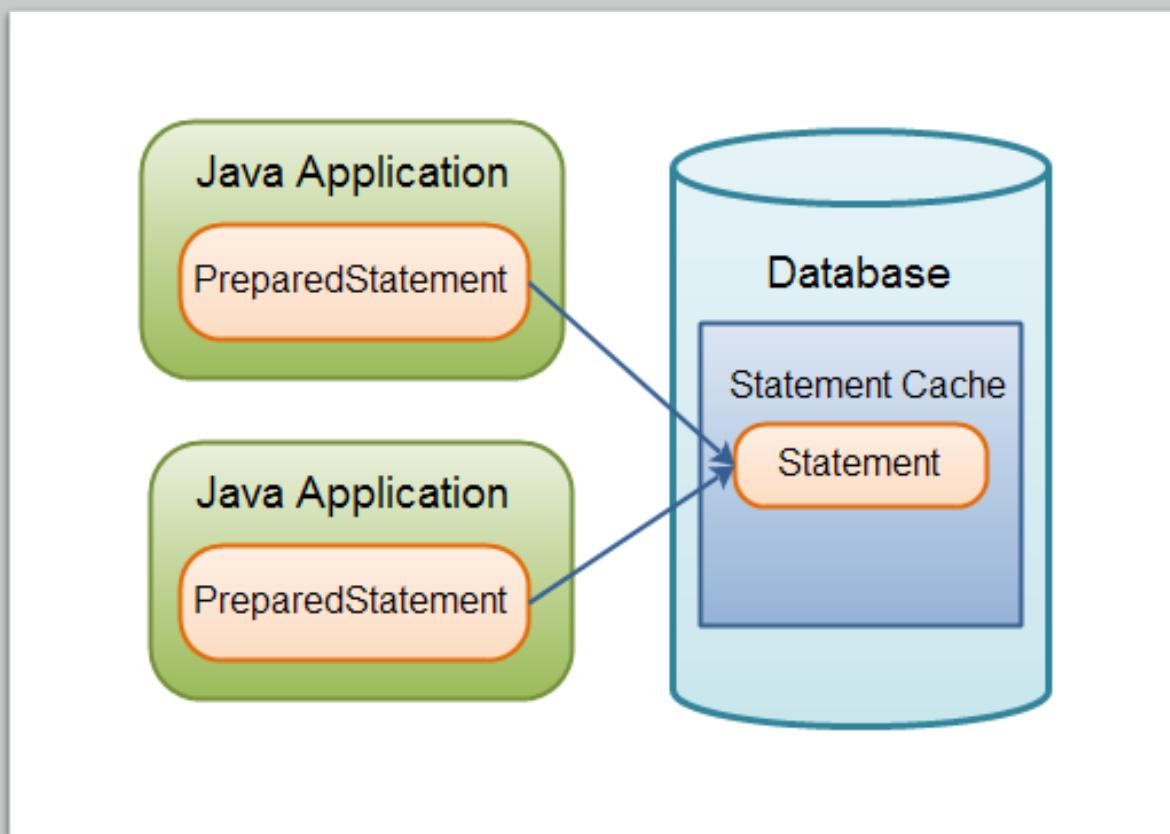
```
String name = //user input
int age = //user input
Connection connection = DriverManager.getConnection(...);
PreparedStatement statement = connection.prepareStatement(
    "SELECT * FROM people WHERE lastName = ? AND age > ?" );
statement.setString(1, name); //lastName is a VARCHAR
statement.setInt(2, age); //age is an INT
ResultSet rs = statement.executeQuery();
while (rs.next()){
    /**
}
```

Once a `PreparedStatement` object has been created, it can be reused multiple times for multiple queries (for example, when using the same query to update multiple rows in a table). However, they are **not thread-safe** because of the many method calls involved in setting the parameters and executing the query. Therefore, you should only define `PreparedStatement` objects as method-level variables (as opposed to class-level variables) to avoid concurrency issues.

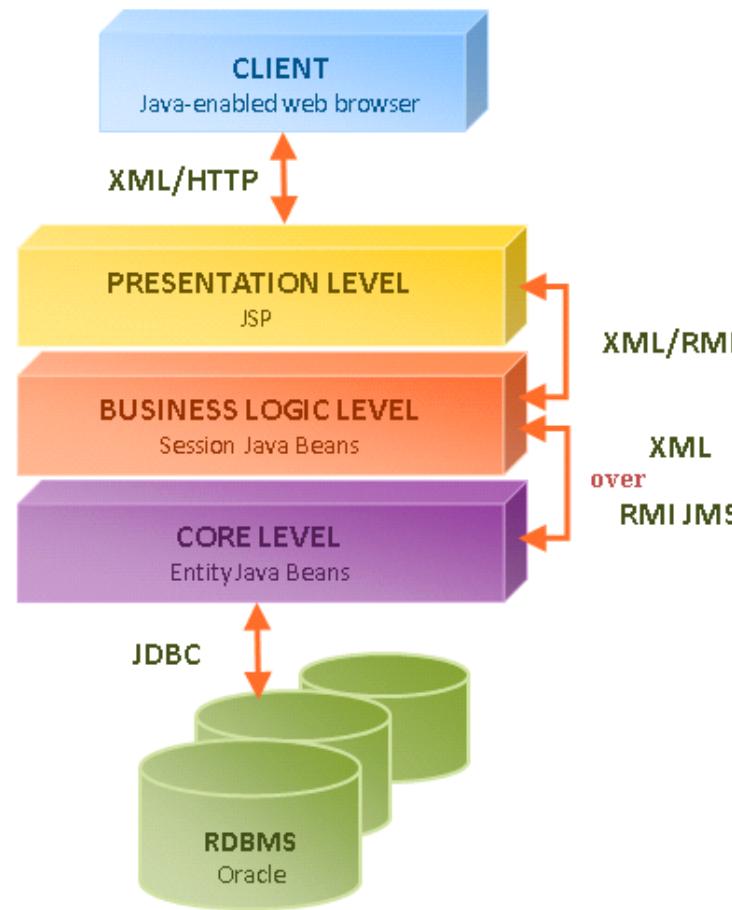
```
List<Person> people = //user input
Connection connection = DriverManager.getConnection(...);
connection.setAutoCommit(false);
try {
    PreparedStatement statement = connection.prepareStatement(
        "UPDATE people SET lastName = ?, age = ? WHERE id = ?");
    for (Person person : people){
        statement.setString(1, person.getLastName());
        statement.setInt(2, person.getAge());
        statement.setInt(3, person.getId());
        statement.execute();
    }
    connection.commit();
} catch (SQLException e) {
    connection.rollback();
}
```

More information on `PreparedStatement` can be found in the [Oracle JDBC tutorial](#).

Prepared Statements



Prepared Statements



- Create the prepared statement

```
PreparedStatement myStmt =  
    myConn.prepareStatement("select * from employees" +  
        " where salary > ? and department=?");
```

- Set parameter values for type and position

– Parameter positions are 1 based, left-to-right

```
myStmt.setDouble(1, 80000);  
myStmt.setString(2, "Legal");  
  
// now execute the query  
ResultSet myRs = myStmt.executeQuery();
```

Statement	PreparedStatement	CallableStatement
It is used to execute normal SQL queries.	It is used to execute parameterized or dynamic SQL queries.	It is used to call the stored procedures.
It is preferred when a particular SQL query is to be executed only once.	It is preferred when a particular query is to be executed multiple times.	It is preferred when the stored procedures are to be executed.
You cannot pass the parameters to SQL query using this interface.	You can pass the parameters to SQL query at run time using this interface.	You can pass 3 types of parameters using this interface. They are – IN, OUT and IN OUT.
This interface is mainly used for DDL statements like CREATE, ALTER, DROP etc.	It is used for any kind of SQL queries which are to be executed multiple times.	It is used to execute stored procedures and functions.
The performance of this interface is very low.	The performance of this interface is better than the Statement interface (when used for multiple execution of same query).	The performance of this interface is high.

executeQuery()	executeUpdate()	execute()
This method is used to execute the SQL statements which retrieve some data from the database.	This method is used to execute the SQL statements which update or modify the database.	This method can be used for any kind of SQL statements.
This method returns a ResultSet object which contains the results returned by the query.	This method returns an int value which represents the number of rows affected by the query. This value will be the 0 for the statements which return nothing.	This method returns a boolean value. TRUE indicates that query returned a ResultSet object and FALSE indicates that query returned an int value or returned nothing.
This method is used to execute only select queries.	This method is used to execute only non-select queries.	This method can be used for both select and non-select queries.
Ex : SELECT	Ex : DML → INSERT, UPDATE and DELETE DDL → CREATE, ALTER	This method can be used for any type of SQL statements.

```
// Removes SQL injected queries
// @param      [string $query] SQL query to clean
// @return     [string] sanitized query
function sanitize_query ($query) {
    $query = trim($query);
    return $query; // remove trailing spaces
}
```

Tréning SQL Injections

Welcome to Codebashing!

Want to sharpen your secured coding skills and fix vulnerabilities quickly?

Select your programming language for interactive tutorials. Have Fun!



Java

Learn how to secure Java web applications.

Start

20 Exercises



.NET

Learn how to secure .NET web applications.

Start

20 Exercises



PHP

Learn how to secure PHP web applications.

Start

20 Exercises



Node.JS

Learn how to secure Node.JS web applications.



Ruby on Rails

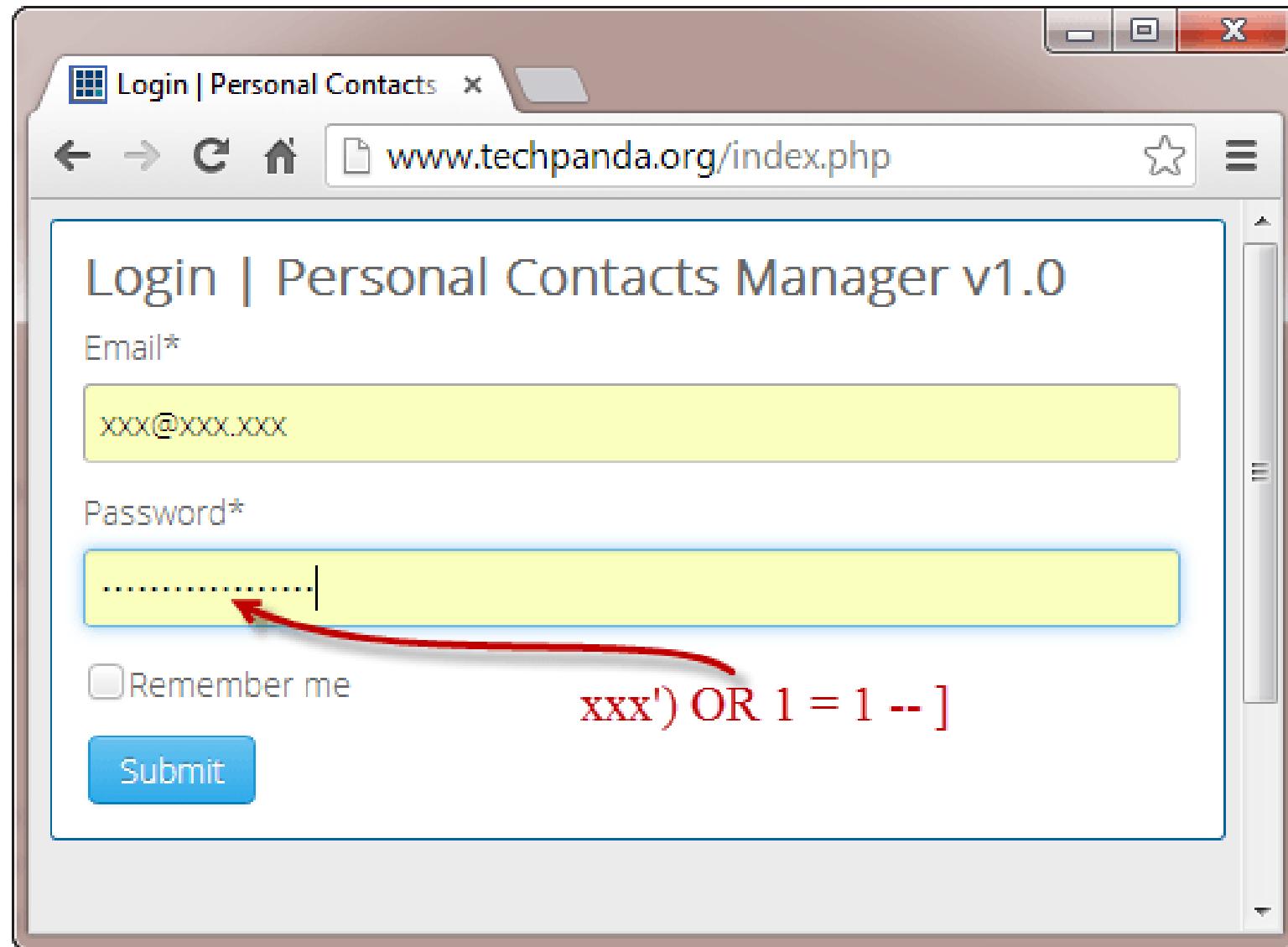
Learn how to secure Ruby on Rails web applications.



Python Django

Learn how to secure Python Django web applications.

Tréning SQL Injections



SQL Injections

The screenshot shows a Google search results page. The search bar contains 'php?id=' and the 'Všetko' tab is selected. Below the search bar, it says 'Približný počet výsledkov: 742 000 000 (0,52 sekúnd)'. The first result is 'Ancient Israel: Resources - Bible History Online' with a link to 'www.bible-history.com/subcat.php?id=2'. The second result is 'SURFNATURE' with a link to 'surfnature.ctfc.cat/det_project.php?id=36'. The third result is 'Slovenská komora audítorov - Skau' with a link to 'https://www.skau.sk/page.php?id=1'. The fourth result is 'Príručka medzinárodných usmernení na kontrolu kvality, audit ... - Skau' with a link to 'https://www.skau.sk/page.php?id=44'.

Ancient Israel: Resources - Bible History Online

www.bible-history.com/subcat.php?id=2 ▾ Preložiť túto stránku

Bible History Online. Sub Categories Ancient Israel 1. Previous List · Archaeo. & Images · Archaeology & Sites · Archaeology Images · Art & Images · Cities

SURFNATURE

surfnature.ctfc.cat/det_project.php?id=36 ▾ Preložiť túto stránku

Project details. Only admin profile: User: Pwd: 2011© SURF nature. Co-Financed by European Regional Development Fund.

Slovenská komora audítorov - Skau

<https://www.skau.sk/page.php?id=1> ▾

ID : Heslo : Uložiť : Prihlásit. Aktuality. [18.08.2017]. MPK-LP-2017-620 Novela zákona o verejnom obstaravaní. [29.06.2017]. Vstupný test 2017 pre AŠA.

Príručka medzinárodných usmernení na kontrolu kvality, audit ... - Skau

<https://www.skau.sk/page.php?id=44> ▾

23. 3. 2017 - ID : Heslo : Uložiť : Prihlásit. Aktuality. [18.08.2017]. MPK-LP-2017-620 Novela zákona o verejnom obstaravaní. [29.06.2017]. Vstupný test 2017 ...



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3efd0fe 1 hour ago 11 commits

[MySQL-SQL-Injection-CheatSheet.sql](#)

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README.md



Penetration Testing SQL

Materiály, zdrojové kódy, testovacie sady a prípady, zdroje a návody ku kurzu Penetračné Testovanie, Testovanie softvéru a SQL kurzy



GUI nástroje

```
-- GUI nástroje
Havij
TyrantsQL -- Treba Python 2.*.* + knižnice
SQL Power Injector
Vega
```



CMD nástroje

About

Penetration Testing SQL - Materiály, zdrojové kódy, testovacie sady a prípady, zdroje a návody ku kurzu Penetračné Testovanie, Testovanie softvéru a SQL kurzy

www.vita.sk/online-kurz-penetracne-test...

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← Útok SQL Injection

SQL Injection v běžném životě

- Dones z venku

Vložený příkaz →



Cross-Site Scripting

XSS

David Ross, Microsoft, 1999

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Slovensko a Česko

- Albatrosmedia
- Kopp
- Grada
- Wolters Kluwer
- BEN
- Veda

Zahraničie

- O'Reilly
- Manning
- Packt
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- Wiley
- No Starch Press

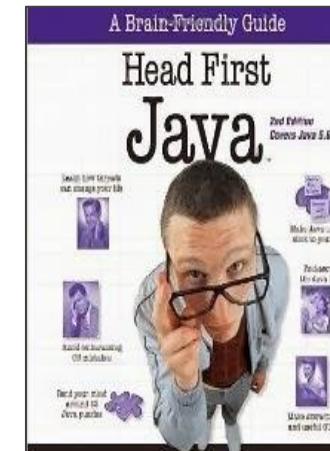
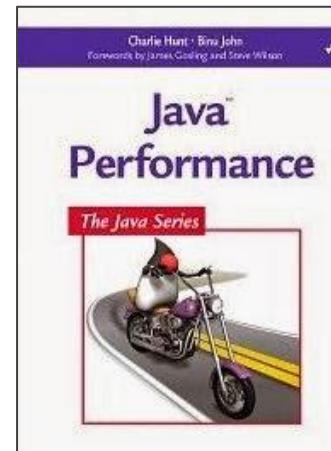
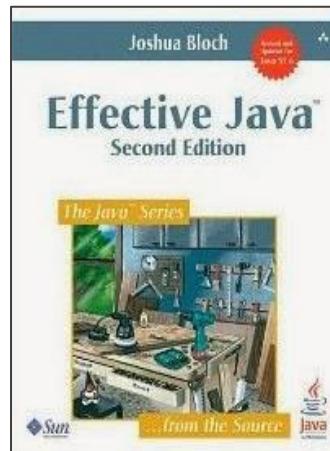
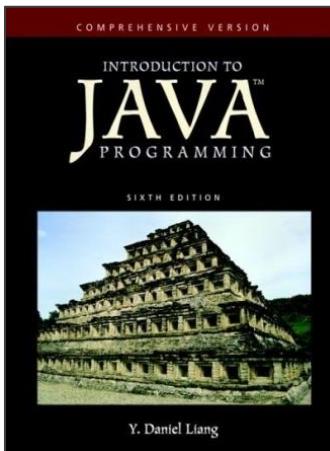
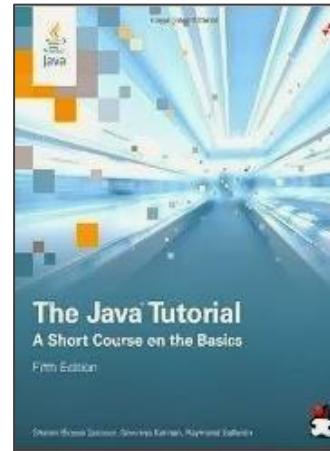
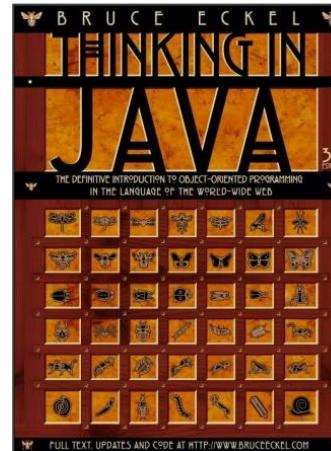
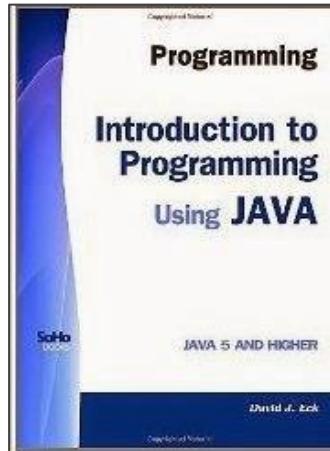
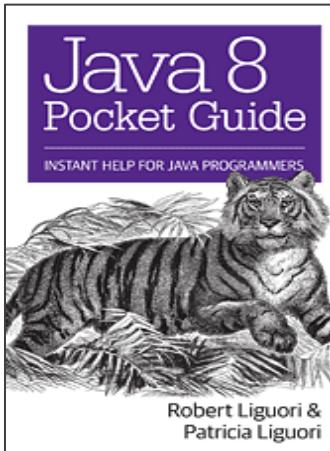
YouTube tutoriály

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Mistrovství a Kuchárka

Čo sa oplatí/neoplatí prečítať EN



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Skupina softvérových vývojárov. Táto skupina by mala byť miestom... Zobraziť viac

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for questions about Apache Tomcat (or simply Tomcat, formerly also Jakarta Tomcat) which is an open source Servlet Container developed by the...

40936 questions 11 asked today, 47 this week

tomcat7

Version 7.x (June 2010) of the Apache Tomcat servlet container. Use only if your question is specifically related to features of this version.

5541 questions 10 asked this month, 143 this year

tomcat8

Version 8.x (August 2013 onwards) of the Apache Tomcat servlet container. Use only if your question is specifically related to features of this version.

2576 questions 6 asked this week, 20 this month

tomcat6

Version 6.x (December 2006) of the Apache Tomcat servlet container. Use only if your question is specifically related to features of this version.

1877 questions 11 asked this year

tomcat9

Version 9.x (August 2017 onwards) of the Apache Tomcat servlet container. Use only if your question is specifically related to features of this version.

784 questions 8 asked this week, 32 this month

tomcat5.5

Version 5.5.x (August 2004) of the Apache Tomcat servlet container. Use only if your question is specifically related to features of this version.

252 questions 4 asked this year

embedded-tomcat-8

Embedded Apache Tomcat 8

209 questions 21 asked this year

maven-tomcat-plugin

The Tomcat Maven Plugin provides goals to manipulate WAR projects within the Tomcat servlet container.

202 questions 2 asked this year

embedded-tomcat-7

Questions about running Apache Tomcat 7 as an embedded server in...

tomcat8.5

Version 8.5.x (June 2018 onwards) of the Apache Tomcat servlet container

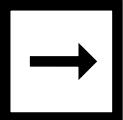
tomcat-valve

a type of component that can be inserted into Tomcat's...

tomcat-jdbc

about tomcat and jdbc working together

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