



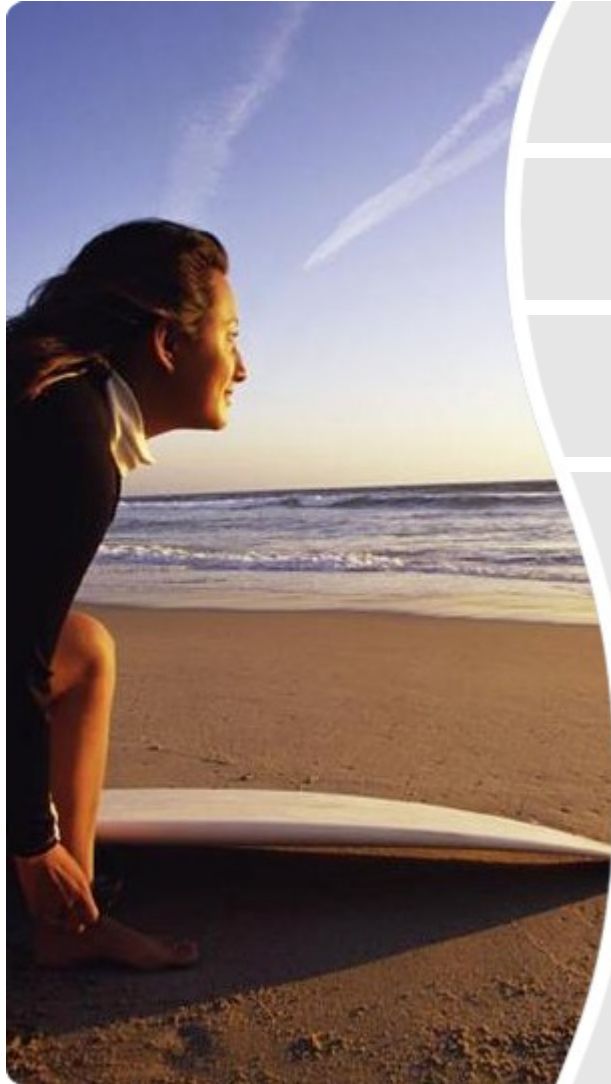
Let's talk about certifications

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Agenda



Who am I

What / Why / How Certs.

Sun Certifications

Java Certification

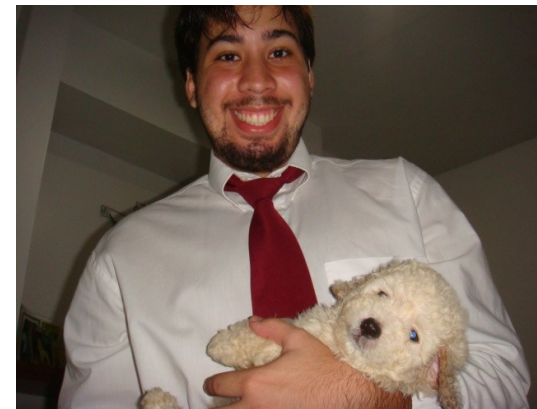
Solaris Certification

Sun Academic Initiative

Sun OSUM

Who am I?

- CS student at UFC
- Member
 - > CEJUG (Ceará Java User Group)
 - > ParGO (Parallelism, Graphs and Optimization)
- Free Software / Open Source
 - > Talks
 - > Code
- Blogger
 - > silveiraneto.net
 - > eupodiatamatando.com
- Sun Microsystems Campus Ambassador
 - > NetBeans, OpenSolaris, JavaFX, etc.
- Amateur music



What is a certification?

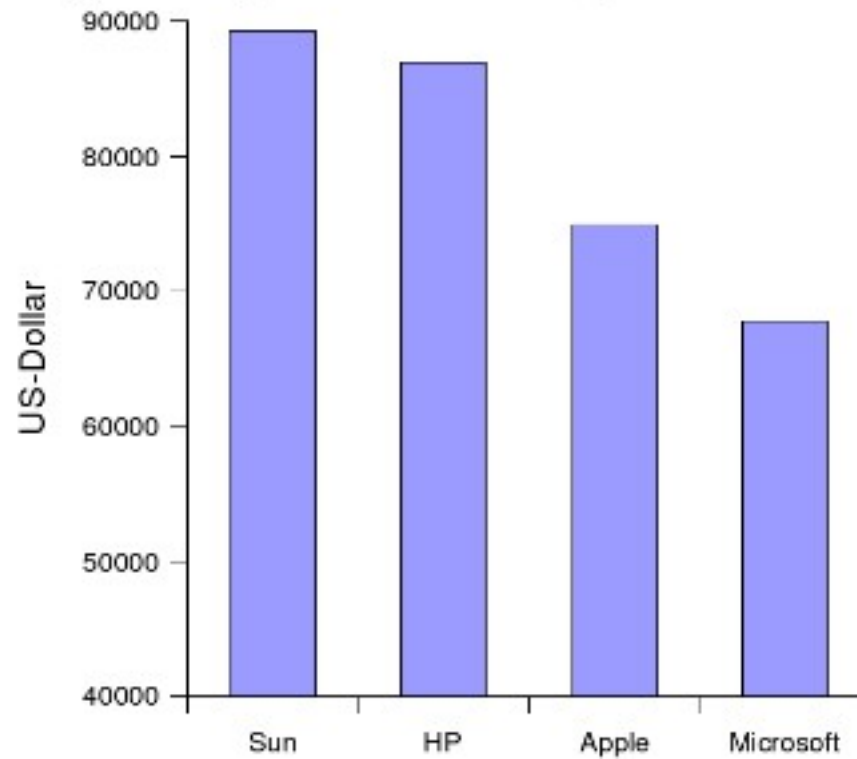
- A designation earned by a person to demonstrates you have the competency, dedication and thrust that is valued in the highly competitive technology field.

Why Get Certified?

- Knowledge
- Differential CV/Resume
- Industry Recognized
- Academic Recognized
- Salary

Salary

Average salary of a certified System Administrator



CertMag's 2006 Salary Survey

more info:

http://www.certmag.com/articles/templates/CM_gen_Article_template.asp?articleid=2479&zoneid=224

Salary (2)

According to a Certification Magazine Salary Survey, Sun Certification increases earning power:

- Sun Certified Programmers earn on average 8.3% more than the average programmer.
- Sun Certified Developers earn on average 14.3% more than the average developer.
- Sun Certified System Administrators earn on average 31% more than system administrators certified on other operating systems

more info:

http://blogs.sun.com/serda/entry/competitive_edge_for_new_college

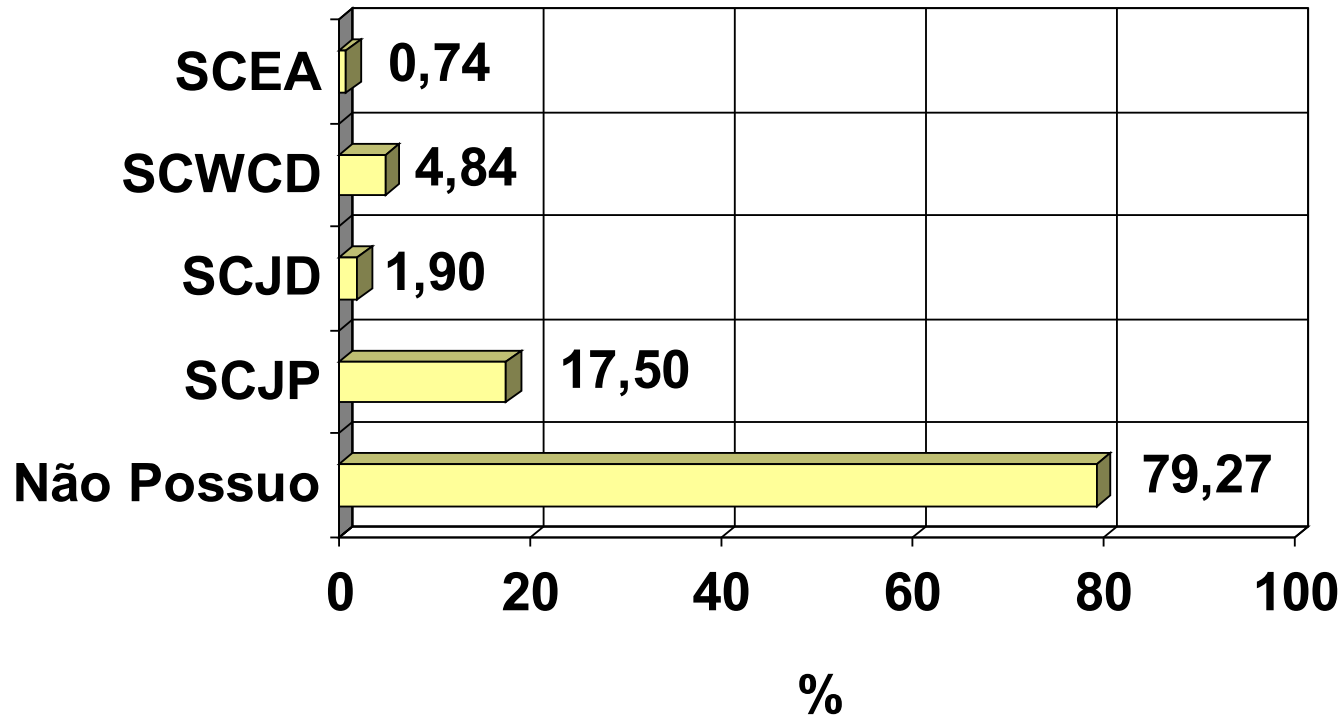
Salary (3)

As more valuable you are, more you will be paid.



In Brazil

Qual certificação você possui?



(2004)

* which certification you have?

How get a certification?

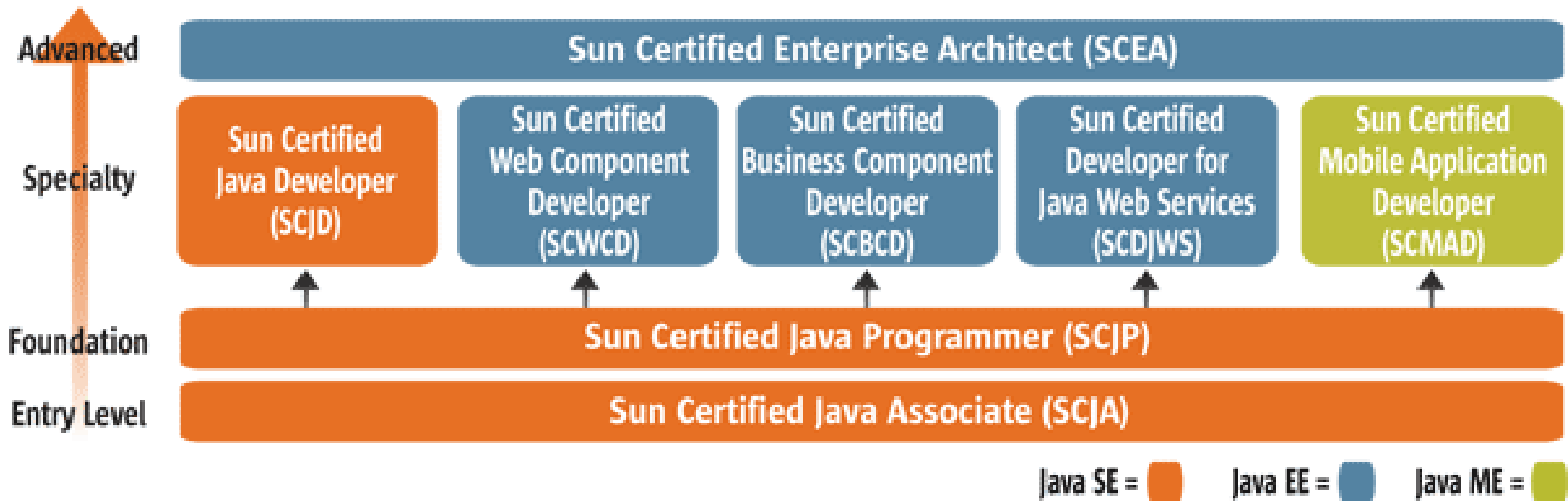
- You need to pass a exam for the certification you want to get certified.
- Depending on the type, the exam can be a project, a multiple choice exam or essay.
- Once exam vouchers are purchased you have up to one year from the date of purchase to use it.
- Authorized Prometric Testing Center

Sun Certifications

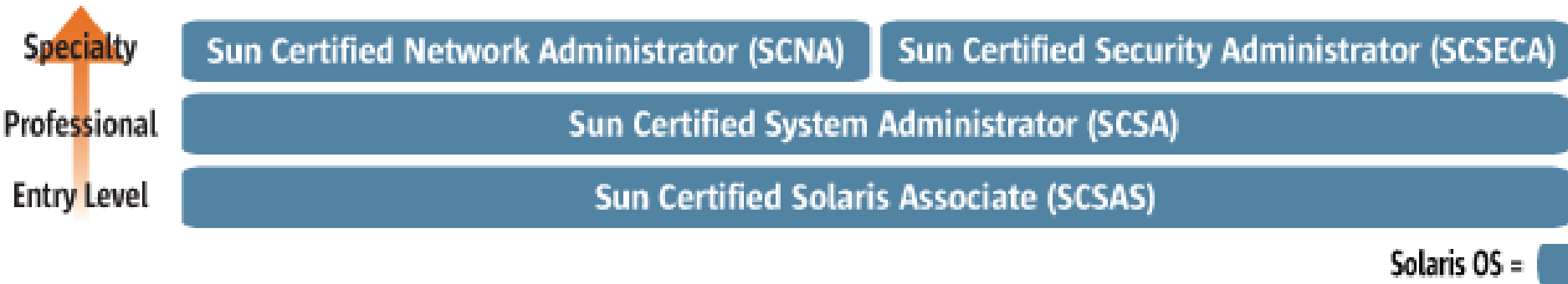
- World-wide recognized
- ~ 500,000 certificates
- Java Technology
- Solaris Operating System
- Sun Cluster
- Java CAPS

more info: <http://www.sun.com/training/certification/500k.xml>
<http://www.sun.com/training/certification/>

Java Certification



Solaris Operating System



Sun Certified Java Associate (SCJA)

- An ideal entry into an application development or a software project management career using Java technologies.
- It validates basic knowledge of OO concepts, the Java programming language and general knowledge of Java platforms and technologies.
- Exam type: Multiple choice and Drag and Drop.
- Number of questions: 51.
- Pass score: 68% (35 of 51 questions).
- Time limit: 115 minutes.
- Languages: English, Japanese, Chinese (Traditional or Simplified), German, Korean, Brazilian Portuguese or Spanish.

SCJA Exam Objectives

- **Section 1:** Fundamental Object-Oriented Concepts
- **Section 2:** UML Representation of Object-Oriented Concepts
- **Section 3:** Java Implementation of Object-Oriented Concepts
- **Section 4:** Algorithm Design and Implementation
- **Section 5:** Java Development Fundamentals
- **Section 6:** Java Platforms and Integration Technologies
- **Section 7:** Client Technologies
- **Section 8:** Server Technologies

Certifications Resources

- Trail: Learning the Java Language
 - > java.sun.com/docs/books/tutorial/java/index.html
- UML for the Java Associate
 - > hfoobook.com/pdf/hfoo-associateuml.pdf
- J2EE Specification, Section 2.6
 - > java.sun.com/j2ee/j2ee-1_4-fr-spec.pdf
- JavaRanch SCJA FAQ
 - > faq.javaranch.com/view?ScjaFaq
- Student Developers, Certification Session
 - > developers.sun.com/students/certification.jsp
- Certification Learning Paths
 - > sun.com//training/certification/resources/paths.html

Sun Certified Java Associate (SCJP)

- Code: CX-310-065
- Price: US\$ 200
- Requirements: Nenhum
- Type: multiple choice and drag'n drop
- Number of questions: 72
- Correct answers: 65% (47 questions)
- Duration: 210 minutes
- Language: English

SCJP Objectives

- Java Basics
- Gargage Collection
- Operators and attributions
- Modifiers
- Casting and converstions
- Statements and exceptions
- Objects and classes
- Threads and files
- Generics
- java.lang and java.util

Resources

- Sun Certifications
 - > sun.com/training/certification/java
- Portals
 - > portaljava.com
 - > javaranch.com
 - > guj.com.br
 - > javafree.org
 - > j2eebrasil.com.br
- CEJUG
 - > cejug.org
 - > discussao@cejug.dev.java.net

Free Mock Exams

- WGS-PREX-J019C, 150 questions.
 - > Free for Sun Academic Initiative (SAI)
 - > Sun Learning Connection
 - > Also free at uk.sun.com/training/catalog/courses/WGS-PREX-10-QUEST.xml
- 25 free questions
 - > scja.de/ebook/order.html
- 10 free questions.
 - > ejavaguru.com/scjafreemockexam.php
- Caelum mock
 - > caelum.com.br/caelummock/


More resources

- Local JUG (CEJUG)
- Java Students Groups
- Books
- Mock Exams

How get discounts?

- Sun Academic Initiative (SAI)
- Local JUG Initiatives

Let's try some typical
SCJA questions now.



are **you**
ready?

Mock Exam

Question 1

Select the correct setter and getter method for the property count according to the JavaBeans convention.

```
public class Question {  
    private int count;  
}
```

Select all correct answers:

- A)** public void setCount(int count) { this.count=count; }
- B)** public int setCount(int count) { return this.count; }
- C)** public void getCount(int count) { this.count=count; }
- D)** public int getCount() { return this.count; }
- E)** public int setCount() { return this.count; }

Question 2

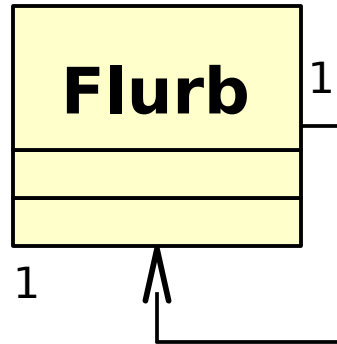
Object created using *new* is placed on

Select the correct answer

- A)** Stack
- B)** Queue
- C)** Heap
- D)** None of the above

Question 3

Which two are true?



Select two correct answers

- A)** Every Flurb contains a reference to itself.
- B)** Every Flurb is associated with exactly one Flurb.
- C)** There can only be one instance of the Flurb class.
- D)** There must always be an even number of Flurb instances.
- E)** A Flurb can be associated with itself, but it also could be associated with a different Flurb.

Question 4

Which two compile without error?

Select two correct answers

- A)** `boolean b = 0;`
- B)** `float f = 3.14;`
- C)** `double d = 1000;`
- D)** `char c = '\u0078';`

Question 5

Which two are true?

Select two correct answers

- A)** J2EE includes the MIDP API.
- B)** J2EE application developers need J2SE.
- C)** J2EE includes servlet APIs and EJB APIs.
- D)** J2EE applications depend on web servers.
- F)** J2EE runs on consumer and embedded devices.

Answers

- **Question 1:** A, D.
- **Question 2:** C.
- **Question 3:** B, E.
- **Question 4:** C, D.
- **Question 5:** B, C.

?

Questions?

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Question 6

Given:

```
interface Pet {  
    void eat();  
}
```

```
class Dog implements Pet { public void eat() { } }
```

```
class Beagle extends Dog { public void eat() { } }
```

Which demonstrates the "program to an interface" principle?

A) class PetFood { public void go(Pet p) { p.eat(); } }

B) class PetFood {public void go(Dog d) {d.eat(); } }

C) class PetFood {public void go(Beagle b) {b.eat(); } }

D) class PetFood extends Pet {public void go(PetFood d) { d.eat(); } }

E) interface PetFood implements Pet {public void go(Pet d) {d.eat(); } }

Question 7

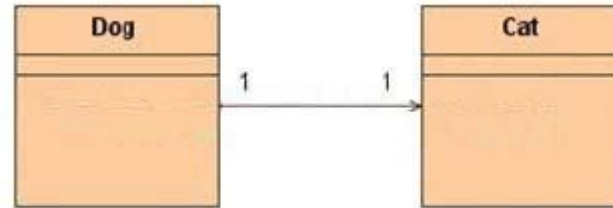
Given:

```
public class Boat{  
    // insert code here  
    public void setGas(int v){  
        gas = v;  
    }  
}
```

Which, inserted at indicated, is valid and demonstrates encapsulation?

- A)** struct int gas;
- B)** public int gas;
- C)** private int gas;
- D)** protected int gas;

Question 8



Which correctly implements the relationship shown in the diagram?

A) `class Cat { Dog d; }`

`class Dog { Cat c; }`

B) `class Cat { }`

`class Dog { cat c; }`

C) `class Cat { Dog d; }`

`class Dog { }`

D) `class Cat { }`

`class Dog { }`

Question 9

Which two are true about the relationship "A keyboard has 101 keys."?

(Choose two.)

- A)** This is a one-to-one relationship.
- B)** This is a composition relationship.
- C)** This is a one-to-many relationship.
- D)** This is a many-to-many relationship.
- E)** This is a not a composition relationship.

Question 10

Given:

```
abstract class A {}  
class B {}  
interface C {}  
interface D {}  
// insert code here
```

Which code inserted where indicated results in a compilation failure?

- A)** class E extends A {}
- B)** class E extends A, B {}
- C)** class E implements C {}
- D)** class E implements C, D {}
- E)** interface E extends C, D {}
- F)** class E extends B implements D {}

Answers

- **Question 6:** A.
- **Question 7:** C.
- **Question 8:** A.
- **Question 9:** B,C.
- **Question 10:** B.

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Questions?

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Sun Academic Initiative (SAI)

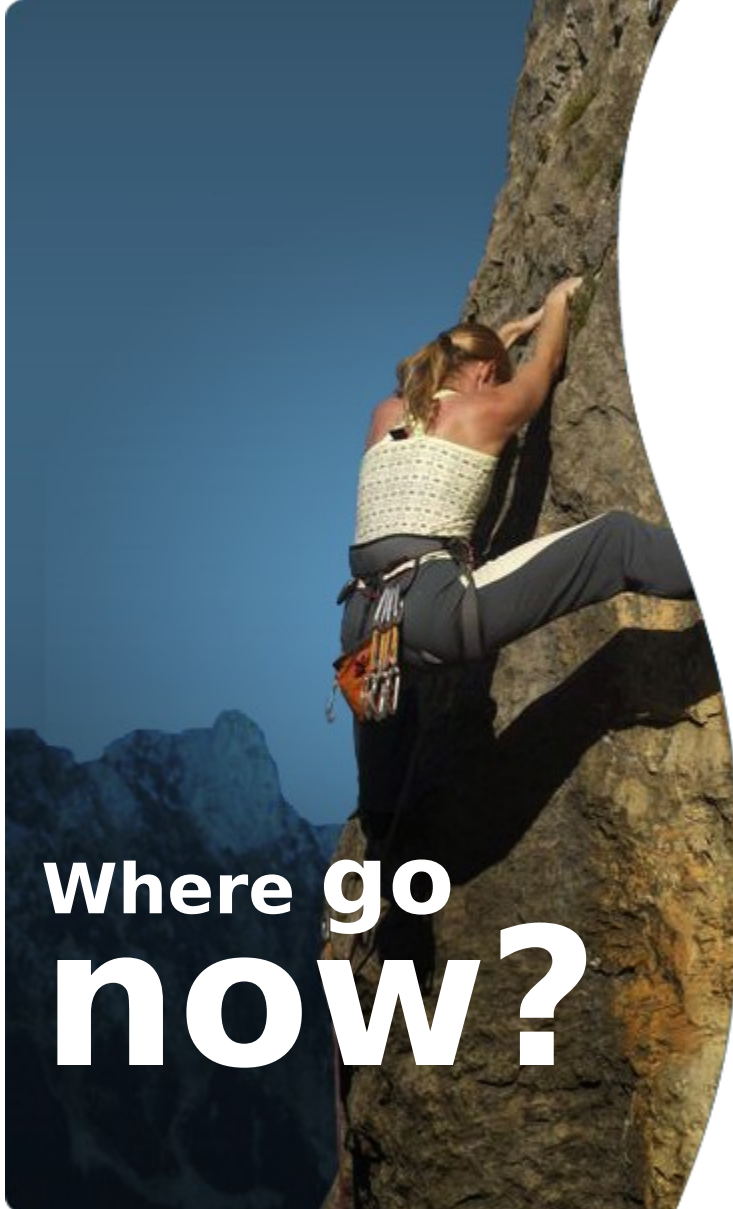
- SAI
 - > <http://www.sun.com/solutions/landing/industry/education/sai/index.xml>
- SAI Learning Connection
 - > <https://sailearningconnection.skillport.com/>
- ePractice Certification Exams
 - > <http://www.sun.com/training/certification/resources/epractice.html>
- Discounts:
 - > For example, exams that normally cost \$160 for professionals are \$60 in the U.S. and \$40 in Latin America and Asia with SAI.

Open Source University Meetup

- Community
 - > Open Source
 - > Opportunities
 - > Friends
- Resources
 - > Photos
 - > Blogs
 - > Videos

OSUM Groups

- Some OSUM Groups (Ceará)
 - > <http://osum.sun.com>
 - > <http://osum.sun.com/group/unifor>
 - > <http://osum.sun.com/group/ufc/>
 - > <http://osum.sun.com/group/fchristus>
 - > <http://osum.sun.com/group/fa7>
 - > <http://osum.sun.com/group/cefetce>
 - > <http://osum.sun.com/group/uva>
 - > <http://osum.sun.com/group/javafx>
- Enter and create your own



Where go
now?

- Sign in osum.sun.com.
- Sign in SAI.
- Enter your local JUG
> (CEJUG)
- Study
- Take mock exams
- Take your certification!

osum.sun.com



Thanks!

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