230326 - ISSNCC - Implementation of a Small Social Network in the Cloud

Coordinating unit: 230 - ETSETB - Barcelona School of Telecommunications Engineering
Teaching unit: 739 - TSC - Department of Signal Theory and Communications
Academic year: 2019
Degree:
- BACHELOR'S DEGREE IN TELECOMMUNICATIONS SCIENCE AND TECHNOLOGY (Syllabus 2010).
  (Teaching unit Optional)
- BACHELOR'S DEGREE IN AUDIOVISUAL SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Optional)
- BACHELOR'S DEGREE IN ELECTRONIC SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Optional)
- BACHELOR'S DEGREE IN TELECOMMUNICATIONS SYSTEMS ENGINEERING (Syllabus 2010). (Teaching unit Optional)
- BACHELOR'S DEGREE IN TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES ENGINEERING (Syllabus 2015). (Teaching unit Optional)
- BACHELOR'S DEGREE IN NETWORK ENGINEERING (Syllabus 2010). (Teaching unit Optional)
ECTS credits: 2

Teaching languages: English

Teaching staff
Coordinator: Monte Moreno, Enrique
Others: Monte Moreno, Enrique

Opening hours
Timetable: Monday 8 to 9:30
            Tuesday 8 to 9:30
            Friday 8 to 9:30

Prior skills
Have done the 2b

Requirements
Some knowledge of Linux

Teaching methodology
On hands approach with a computer. Theory during the laboratory sessions.

Learning objectives of the subject
Being able to implement a social network in an environment of cloud computing.
Understanding the Amazon Web Services architecture and the systems of storage.
Be able to program a small website interface, and manage a database.
Study load

<table>
<thead>
<tr>
<th></th>
<th>Total learning time: 50h</th>
<th>Hours small group:</th>
<th>20h</th>
<th>40.00%</th>
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<tbody>
<tr>
<td></td>
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<td>Self study:</td>
<td>30h</td>
<td>60.00%</td>
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Content

Implementation of a small social network in the cloud.

Learning time: 20h
Theory classes: 20h

Description:
This seminar will implement a small social network servers Amazon Web Services (AWS). servers on the network will be used to create web pages and manage databases on the social network. In addition the information structure of the social network will be adapted to the structure of AWS.

Related activities:
Practical activities with a computer. Groups of two students.

Specific objectives:
Understand how systems hosted in the cloud work, how to manage a small database, the web interface implementation and administration of a Unix system.

Qualification system

Performance of the implemented network, 100% of the marks

Regulations for carrying out activities

Network implementation

Bibliography

Others resources:
Lab with computers with internet connexion