



**LUND**  
UNIVERSITY

# Domain Name Service Project

**ETSF10-HT10**

***Project supervisors:***

*Payam Amani*

*Christopher Jämthagen*

***Department of Electrical and Information Technology***

***Lund University***

*Payam.Amani@eit.lth.se*

*Christopher.Jamthagen@eit.lth.se*

# Outline

---

- Short description of the project:
  - Project objectives
  - Project setup and tools
  - Project requirements
- Time Schedule
- Organization
  - Registration
  - Report
  - Office hours

# Project Objectives

---

- ❑ Providing the students with an understanding of role of Domain Name Service (DNS) in a computer network.
- ❑ Provide the students with experience of interacting with the DNS servers.
- ❑ Students will learn to use a free program called *Dig* which connects to a DNS server and asks for some information and provides the user with the answers .
- ❑ *Dig* is included in any Linux distribution and can be run from the Terminal of that Linux distribution.
- ❑ Improve team-work skills.

# Main parts of the Project

---

## □ Individual Studies

- Reading the related chapter from the text book.
- Reading the Linux/Unix manual for *Dig*. (Link to this document is provided on the project home page)
- Reading the Lab manual.

## □ Performing the tasks

- How can we find the IP address of a computer from its name?
- Where is email really sent?

# Main parts of the Project

---

- Performing the tasks Contd.
  - What is the default DNS server used by your computer?
  - Using other DNS servers.
  - Survival Time for cashed information.
  - Reverse Look-up.
  
- Documentation
  - final report.

# Organization

---

- ❑ Form groups of 2 students and sign up the group members who will work on the project together.
- ❑ One group member shall register the group by sending Names, Student ID, and email addresses of both the group members to Payam 's email address and put the group mate in CC. The title of this email shall be ETSF10 - dns lab sign-up.
- ❑ The documentation regarding the project can be found on the course homepage.
- ❑ You can find many tutorials and examples of using *dig* for contacting DNS servers online.

# Organization Cont.

---

- ❑ You can work on any PC with a Linux distribution. Students are encouraged to use one of the computers in any of student computer rooms with a Linux distribution.
  
- ❑ Support:
  - One of the project supervisors will be available in his office for answering possible questions regarding the project.
  - The exact schedule will be posted on the course homepage.
  - Support on the other times is through the course forum or supervisors' emails. Do not send duplicates of the emails to other supervisors.

# Organization Cont.

- Language:
  - All the communications in this project shall be done in English.
  
- Evaluation:
  - Final evaluation of this Project is done by evaluation of the final report by project supervisors. Result of this evaluation will be Pass, Conditional Pass or Fail. Some groups may be asked to present their results to the supervisors in person.
  
  - If the supervisors decide that you will Pass the project by doing some required modifications to the report, group members are responsible to make sure that they have a Passed report within 7 days from the notice.
  
- Schedule:
  - The Lab will start on November 24th and will finish on December 10th at 12 AM.



- The final report shall contain:
  - ❑ The group number, names and emails of all group members.
  - ❑ Group number will be provided by Payam in the sign-up confirmation.
  - ❑ Demonstration of the commands, outcomes, answers and analysis of the logs from dig regarding each step of each task.
  - ❑ In each case just report the portion of the logs from dig that is relevant to the task and analyze it.
  - ❑ Avoid pasting lengthy screen dumps and unprocessed command outputs.
  - ❑ What have you learned from the project.
  - ❑ Problem that you faced during the project and how you solved them if so.
  - ❑ Comments about what was good or bad regarding the project, documentation, organization, group work, etc.

# Project requirements

---

- You are done with DNS project when:
  - You have performed all the tasks in detail and correctly.
  - You submitted a complete report with the mentioned structure within the mentioned deadline and received confirmation of acceptance of the report from Payam by email.

# Questions:

---

# Questions?