



PROJECT ASSIGNMENT

Assignment of the semestral project.

Author: Ing. Filip Rezac, Ph.D.
Contact: filip.rezac@vsb.cz
Subject: **Multimedia Communication and Content Security**

INTRODUCTION

Students will choose one task and they can get max. 15 points.

ASSIGNMENT

	Project title	Names of the students	Points
1	Secure SIP Trunk between Asterisk PBX and Kamailio using TLS and certificates.		
2	Secure SIP Trunk between Asterisk PBXs using TLS and SRTP.		
3	Introduction and configuration of the ZRTP technology – support in Asterisk PBX, Kamailio, SIP clients.		
4	Configuration of the Websockets in Kamailio.		
5	Methods and technologies for SRTP media stream decryption.		
6	Advanced configuration of the Sipp generator from the security point of view.		
7	Advanced configuration of the Dionaea Honeypot.		
8	Advanced configuration of the Suricata IDS/IPS from the VoIP point of view.		
9	Research and practical testing in the field of the new threats in SIP IP telephony.		
10	Research and practical testing in the field of the security in corporate VoIP solutions – Cisco.		
11			

INSTRUCTIONS

1. Delivery of a presentation at the 14th exercise - 10 min, project documentation (description, solution, conclusion, involvement, codes, documentation) - website.
2. Solving a project in groups of max. 2 students.
3. Assignment of the project task is done via e-mail within an assignment week.

4. The project must contain:
 - a. Title
 - b. Description of the topic, the current state of the art
 - c. Task solution
 - d. Conclusion and results
 - e. References
 5. Assessment 15 points
- .