

# Homework Assignment #11 – Cryptography II

Practical Cyber Security Fundamentals (CTF), Spring 2017  
Department of Computer Science, Florida State University

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**Points: 45**

**Due: Beginning of the class (5:15pm) on April 17<sup>th</sup>, 2017**

**Submission:** You need to submit electronically via Blackboard by uploading a pdf file (named “**hw11-Firstname-Lastname.pdf**”) for your answers and programs to the problems; you need to combine all the parts into a single file. Here replace “Firstname” using your first name and replace “Lastname” using your last name in the file name.

*All the materials can also be obtained from at*

<https://github.com/n0l3ptr/IntroToCTFs/tree/master/crypto2>.

## *Problem 1 (15 points)*

Generate a pgp private key. Have two people sign it and then send Mitch an encrypted message and your public key to Mitch’s email address ([mps12@my.fsu.edu](mailto:mps12@my.fsu.edu)). You also need to save the encrypted message and the key in your report. Mitch’s pgp key is available from <http://www.cs.fsu.edu/~liux/courses/ctf/assignments/mitch.pub> .

## *Problem 2 (15 points)*

Alice and Bob are up to no good! Decrypt their messages to find the flag  
(<http://www.cs.fsu.edu/~liux/courses/ctf/assignments/hw2.txt>).

## *Problem 3 (15 points)*

Find the flag at the server <http://www.cs.fsu.edu/~liux/courses/ctf/assignments/hw3.py> is at: nc fsu-ctf.selfip.net 10005