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| **FloridaTech_seal** | | | |
| **CIS 5600** | | **Information Security Management** | **Distance Learning via Canvas** |

**Lab 2: Security Cyber Awareness, Cryptography, and Risk Management**

**1. Reading**

* Text book
* Online sources/references

**2. Files**

* Use the Lab 2 Template provided by instructor on Canvas

**3. Assignment Instructions**

Part 1:

* Go to the GPG4Win website and download the open source software at: <http://www.gpg4win.org/documentation.html>
* Gpg4win (GNU Privacy Guard for Windows) is encryption software for files and emails.
  + Gpg4win enables users to securely transport emails and files with the help of encryption and digital signatures. Encryption protects the contents against an unwanted party reading it. Digital signatures make sure that it was not modified and comes from a specific sender.
  + Gpg4win supports both relevant cryptography standards, OpenPGP and S/MIME (X.509), and is the official GnuPG distribution for Windows. It is maintained by the developers of GnuPG. Gpg4win and the software included with Gpg4win are Free Software (Open Source; among other things free of charge for all commercial and non-commercial purposes).
* After installation, review the documentation, examples, and perhaps check out some YouTube videos that describe how to use GPG4Win.
* Create a public key and send to me (class instructor) via email at least 5 days before the submission is due. Once I have your public key, I will email your team my public key. Also, I will email your team an encrypted message that you must decrypt using your software and public key.
* Copy and paste my unencrypted message into your lab submission.
* Write a 1-2 page (single-spaced) summary describing your lessons learned about cryptography and use of the GPG4Win tool.

Part 2:

* Review the U.S. Government’s GAO Risk Assessment Report and Risk Management Case Studies Report. (Both reports can be found in Lab 2 section on Canvas)
* Choose a case study in the second report and write a 2-3 page (single-spaced) summary of your review. Describe the issues and risks identified, the assessment, impacts, and lessons learned.
* Go to the following Microsoft link: “[Microsoft Security Assessment Tool](http://www.microsoft.com/en-us/download/details.aspx?id=12273)”
* Download this program and install it on your computer. Use some simple cases to carry out a business risk profile assessment. Describe your assessment in a 1 page summary (you may include screen shots, challenges, lessons learned, etc.)

Part 3: (To be completed individually)

* Go to the following U.S. Department of Defense (DoD) Information Systems Agency web link:
  + [**http://iase.disa.mil/eta/Pages/index.aspx**](http://iase.disa.mil/eta/Pages/index.aspx)
* Click on the ***Cyber Awareness Challenge*** training module and complete the training.
* At the end of the training module, you will be asked to enter your name for a certificate of completion. Please enter your name and either print and scan your certificate, or take a screen shot of the certificate.
* Paste or embed the scanned certificate onto a MS Word document and submit as part of the assignment package. Each team member should have a certificate of completion.

**4. Deliverables**

The submission should have your name, date and assignment title on the front page. Use headers and footers, and have your name and title on each page.

* *Layout and format*. The layout and format for the assignment are defined in the Lab1 Template MS Word document template. **Use the template!** The paper should be single spaced.
* *References (optional)*. If you consult other references for the assignment, cite them here, using the APA style. See <http://en.wikipedia.org/wiki/APA_style>, specifically the *Reference list* section of the entry.