**CIS-481: Introduction to Information Security**

**In-Class Exercise #7**

**IQ Team:**

**Names of team members:**

**Logistics**

1. Get together with other students on your assigned team in person and virtually.
2. Discuss and complete this assignment in a collaborative manner. Don’t just assign different problems to each teammate as that defeats the purpose of team-based learning.
3. Choose a scribe to prepare a final document to submit via Blackboard for grading, changing the file name provided to denote the number of your assigned **IQ Team**.

**Problem 1**

Consider the logical access control needs for joint software development teams using a typical Linux environment. Roles must include Developers (that can commit changes made in the code), Testers, and Code Reviewers. The technical access control mechanisms that you design must reflect these organizational roles. Your access control solution must:

1. Protect the software being developed from outsiders stealing it
2. Protect against unauthorized changes (including from internal actors)
3. Ensure that we can trace *who* made each change

Situation 1: A small team on a single machine *(5 points)*

Situation 2: A medium-to-large team on a LAN [Hint: Use of a version control system like [Subversion](https://subversion.apache.org/) is highly recommended] *(10 points)*

Situation 3: A large, distributed team, including outsourced contractors *(10 points)*

[Inspired by <https://www.cs.columbia.edu/~smb/classes/f09/l08.pdf> - many thanks to Columbia University for providing under Creative Commons!]