**SEGR 5910 Midterm Exam**

Please answer the following 5 questions and return to me by 8:30. There’s a 6th question that can be used as a bonus. The overall exam is worth 20% of your quarterly grade, but not more than that (that is, answering the bonus question AND all of the others won’t net you more than 20%). When you are finished with the exam you are free to leave.

This is a closed book exam. You may not use notes from class, my slides, or any of the other reading materials that I linked.

1. In your opinion, does DevOps reduce or increase development and / or operational costs. Defend your opinion.
2. A goal of DevOps is to reduce the time to market of a given product or feature. How does it do this and in what ways might it increase time market?
3. What are the NIST cloud computing models? Give concrete exams of each and explain how and when an organization might adopt one or more of them.
4. NIST identifies five essential cloud computing characteristics. What are they? Do not simply enumerate the list.
5. How does DevOps use and define an error budget? What are some tensions that cause DevOps to use this tool?
6. **(bonus)** Early this quarter we talked about the DevOps process and how it relates to other SDLCs. Using this graphic as a launching point, explain how we layer the DevOps process on it.