Project 7.

1. Devops (development and operations), is a combination of cultural practices, tools, philosophies and communication software developers and IT professionals that increases organizational ability to automate the delivery of software applications and infrastructural changes.
2. Git is a distributed version control system used in software development with emphasis on speed data integrity, non linear work flow and multiple access to the Git repository.
3. Their repositories are the same but their difference in architectural. Git is a distributed version control system while svn (subversion open source distribution control system has a centralized version control system. With Git, every developer has a copy of the code, can work simultaneously from their branch in the development team since almost all operations are local. With Svn, developers access a single central repository. If a change is on the code, it has to be sent to every developer before they can commit to their changes. Also since there is only one true repository, working online can be difficult.
4. Continuous integration CI, is a practice of merging all developer working copies to a shared mainline several times a day, making little improvements on the current model to prepare for the next release.
5. Continuous delivery CD, is a software engineering approach in which teams produce software in short cycles, ensuring that the software can be reliably released at anytime.
6. A scrum is a briefing meeting or framework for project management on team accountability and progress on a defined goal, usually presented through the Jira software platform.
7. Ansible is an open source automation platform that automates cloud provisioning, configuration management, application deployment, inter- service orchestration, task automation and many other I T needs.
8. Release calender Is basically an important part of the release process. It is the day the code goes into production.
9. Release date is the date that changes in the lowest regions go in to production.

2.

* Speed. Devops move at high velocity, so you can innovate for customers faster, adapt to changing markets better and grow more efficient at driving business results.
* Rapid Delivery, which increases the frequency and pace of release such that you can improve your product faster through CI and CD.
* Increase scale. Automation and consistency help to manage complex changing systems efficiently at reduced risks

Devops cultural model on team effectiveness, emphasizes on accountability and effectiveness. More time spent on innovation than fixing/maintaining, thereby increasing effectiveness.

1. Jenkins, is an open source CI, written in Java to run tests on a non developer machine automatically every time someone pushes a new code into the source repository.
2. It is important to build the software in the test region before delivering it to production because in production, there is zero tolerance for manipulation or any changes. From production the product is ready for deployment to release to the market.
3. 

I have trouble shoot why it cannot connect to the network and discovered the NIC has been changed from eth0 to eth1. I cannot figure out how to change it to eth0.