**HW 1. Cloud Computing - VM with VCS**

**IS 5315**

**What to submit:** ***Upload one Word document*** to Canvas

The Instructor's choice of code editor: <https://www.sublimetext.com/3>

**What to achieve:**

1. In your **local computer**: terminal or git bash



cd ~/web/5315

explorer . **(Windows only)**

open . **(Mac only)**

# Copy and paste all hw1 file (index.html) in your file manager

1. In your **local computer**: terminal or git bash

cd ~/web/5315

git add .

git commit -m "hw files"

git push origin master

1. In your **server**: terminal or putty

cd ~/web

git pull origin master

1. Test your sites on a Web Browser's address bar:

yourIP/index.html

http://i.stack.imgur.com/YC4H0.png

**Now, you can update the index.html at your local computer! Always, work on your local git then add, commit, and push to your remote repository!!**

1. In your local system, use **Sublime Text editor** to edit your HW file
   1. Open index.html in Sublime Text
   2. Update all answers for each question in index.html
   3. Save index.html
2. Update your local git repo (laptop), update your remote repo (GitHub), and update your production repo (DO server) by **GIT commands (steps 2 – 4 above)**
3. Repeat above steps (5 - 8) as needed

**What to Write in HW1 Word Document:**

1. **Your url (web page address)**
2. **Screenshot of your page**
3. **What is GIT? Why do we need source code Version Control System?**

GIT is a matured and open resources software which distributed version control system designed to handle everything from small to very large projects with speed and efficiency. GIT has a tiny footprint with lightning fast performance. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like cheap loack branching, convenient staging areas, and multiple workflows.

Version Control System is the management of changes to documents, computer programs, large websites and other collection of information. There are five reasons that we need to use Version Control System: collaboration, restoring versions(properly), restoring previous versions, understanding what happened, and backup.

<https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/why-use-version-control>

<https://git-scm.com/>

<https://www.quora.com/What-is-git-and-why-should-I-use-it>

1. **In GIT, describe the followings: 1) local repo 2) remote repo 3) how to use GIT in Team Project – multiple developers work on the same project at the same time**
2. Copy and Paste your source code (open index.html in Sublime Text then copy&paste to Word Doc.)

## **Assignment Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Capstone | Milestone Plus | Milestone | Benchmark |
| 15 | 8 | 6 | 4 |
| Explanation of Issues | 15: Issue/problem to be considered critically is stated clearly and described comprehensively, delivering all relevant information necessary for full understanding. | 12: Issue/problem to be considered critically is stated, described, and clarified so that understanding is not seriously impeded by omissions. | 9: Issue/problem to be considered critically is stated but description leaves some terms undefined, ambiguities unexplored, boundaries undetermined, and/or backgrounds unknown. | 6: Issue/problem to be considered critically is stated without clarification or description. |
| External Sources | 10: Accesses information using effective, well-designed search strategies and most appropriate information sources. | 8: Accesses information using variety of search strategies and some relevant information sources. Demonstrates ability to refine search. | 6: Accesses information using simple search strategies, retrieves information from limited and similar sources. | 4: Accesses information randomly, retrieves information that lacks relevance and quality. |
| IT Applicability | 15: Implements the solution in a manner that addresses thoroughly and deeply multiple contextual factors of the problem. | 12: Implements the solution in a manner that addresses multiple contextual factors of the problem in a surface manner. | 9: Implements the solution in a manner that addresses the problem but ignores relevant contextual factors. | 6: Implements the solution in a manner that does not directly addresses the problem statement. |
| Organization | 10: Organizational pattern is clearly and consistently observable and is skillful and makes the content of the presentation cohesive. | 8: Organizational pattern is clearly and consistently observable within the presentation. | 6: Organizational pattern is intermittently observable within the presentation. | 4: Organizational pattern is not observable within the presentation. |