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| **DOCUMENT RULES:** | |
| **Task Number / Name:** | **Task 9 / GitHub** |
| **Task name & column name should be written:** | **Bold (CTRL+B)** |
| **Commands should be written in the after # sign:** | *Italic (CTRL+I) #hostname* |
| **Output photo should be cropped or compressed:**  **Photo could be more than one:**  **If you need extra lines, add the line next after it:** | ***Description photo should be with title bar (CTRL + I + B)*** |
| **All other text should be written:** | Standard |
| **Font name and text size:** | Calibri and 9 |
| **Group name:** | Dev\_ops\_tn\_2 |
| **Student name and surname:** | Sami Mirzayev |
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| **#** | **Task names** | | | **Command steps and outputs** |
| **1** | 1. **Lab requirements:**   **-We need 1 Ubuntu VM on Desktop Hypervisor with Snapshoot**  **- MobaXterm terminal Client software should access to guest VM** | | | Ubuntu 18.04 Bionic Beaver mini.iso |
| **2** | 1. **Check status of firewall and take screenshot of the CLI output.** 2. **If firewall is not installed left it as have.** 3. **Give permanent SSH access from.** 4. **SSH virtual port is 22. If SSH server is not installed, please install it.** 5. **To be check connectivity use commands.** 6. **Update the system and application.** | | | **For instance: start**, **stop**, **enable**, **disable, status**  *# firewall-cmd –state*    #*ping x.x.x.x*    *#telnet x.x.x.x 22*  *#sudo apt-get update* |
|  | 1. **Installation configuration of GitHub Client via two methods. HTTPS and SSH** | | | [**https://docs.github.com/en/get-started/quickstart/hello-world**](https://docs.github.com/en/get-started/quickstart/hello-world) |
| **3** | 1. **Creating Repository** | | | **1: Click the + on upper-right coner of any page**  **2: write repository name**  **3: write a description**  **4: select Add a README file**  **5: select private or public, what u want**  **6: click Create repository** |
|  | 1. **Creating Branch** | | | **1: enter code tab of your repository**  **2: click the area named main**  **3:wrie down branch name, *readme-edits*, into the text box, then click *Create branch*** |
|  | 1. **Making and Committing chnges** | | | **1: Click pen sing**  **2: wrinte ur changes in the editor**  **3: in the Commit changes box, u can describe ur changes**  **4: click *Commit changes*** |
|  | 1. **Opening pull request** | | | **1: click *Pull request***  **2: New pull request**  **3: select two branches to compare**  **4: Look at ur changes in the diffs on the Compar page**    **5: click *Create pull request***  **6: Give your pull request a title and write a brief description of your changes, then click =>** |
|  | 1. **Merging Your pull request** | | | **1: click =>**   and  **If u want now u can safely delete branch** |
| **4** |  | ***GitHub on Ubuntu*** | | |
|  | 1. **Install git** | | | **#sudo apt install git**  **Chececk git**  **# git ---version** |
|  | 1. **Configuring GitHub** | | **#git config --global user.name "samirzayev777"**  **#git config --global user.email “**[**samir.mirzeyev2004@gmail.com**](mailto:samir.mirzeyev2004@gmail.com)**”**  **check**  **#git config --list** | |
|  | 1. **Generate SSH key** | | *#ssh-keygen -t rsa -b 4096 -C* [*samir.mirzeyev2004@gmail.com*](mailto:samir.mirzeyev2004@gmail.com) | |
|  | 1. **Add ssh key to ssh-agent** | | *#eval "$(ssh-agent -s)"*  *#ssh-add ~/.ssh/key* | |
|  | 1. **Copy your ssh key** | |  | |
|  | 1. **Add ssh key on GitHub** | | **In key field copy your ssh key that u copied**    **Then click** | |
|  | 1. **create a repository on GitHub** | | |  |
|  | 1. **clone repository to ubuntu** | | | **Get link on ur GitHub account**  **#git clone** [**git@github.com:samirzayev777/ubuntu3.git**](mailto:git@github.com:samirzayev777/ubuntu3.git)    **# ls**    **Enter directory u copied ubuntu**  **#cd ubuntu3**  **#ls** |
|  | 1. **Create a file and edit the file** | | | **#touch HelloWorld.cs (c#)**  **#gedit HelloWorld.cs**  **If u want to write something in your file** |
|  | 1. **Adding your file** | | | **# git status**  **#git add HellWorld.cd**  **#git status** |
|  | 1. **Commit** | | | **@ git commit -m “hello from ubuntu”** |
|  | 1. **Push the file to your GitHub account** | | | **# git push**    **HelloWorld.cs file is here** |
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