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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\_1 |
| **Student name and surname:** | Isgandarova Rana |
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| **WhatsApp number:** |  |

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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) |
|  | 1. **Installing git for linux** | *#sudo apt-get install git* |
|  | 1. **Configuring GitHub** | *#git config --global user.name "rena"*  *#git config --global user.email "rena.isgenderova27@gmail.com"* |
|  | 1. **Go to your github account and create a repository with a name** |  |
|  | 1. **Make a folder with the name of your project and change your current directory to that directory.** | *#mkdir myproject*  *#cd myproject* |
|  | 1. **Now we want to initiate Git for this folder** | *#git init* |
|  | 1. **Now we will set up the remote, which tells git where the repository is located.** | *#git remote add origin https://github.com/your\_username/myproject.git* |
|  | 1. **Create py file(or other file)** | *#nano test.py* |
|  | 1. **Test it** | *#git add test.py* |
|  | 1. **Add commit** | *#git commit -m "This is my simple py code"* |
|  | 1. **Clone the https link** | *#git clone https://github.com/Rena041/rena.git* |
|  | 1. **Look the directory** | *#ls -a* |
|  | 1. **Git clone with SSH key** |  |
|  | 1. **Check for existing SSH keys**   **Do you see any files named id\_rsa and** id\_rsa.pub?  If yes go to Step 23  If no, you need to generate them | ***# ls -al ~/.ssh*** |
|  | 1. **Generate a new SSH key** | ***#ssh-keygen -t rsa -b 4096 -C*** [***rena.isgenderova27@gmail.com***](mailto:rena.isgenderova27@gmail.com)  Add your SSH key to the ssh-agent  ***# eval "$(ssh-agent -s)"***  ***#ssh-add ~/.ssh/id\_rsa*** |
|  | 1. **Add the SSH key to your GIT account.** | Get your public key  ***# cat ~/.ssh/id\_rsa.pub***  Go to your GIT project -> Settings -> SSH keys  Then past the content of your public key in SSH keys |
|  | 1. **Force SSH Client To Use Given Private Key** | This is an alternative solution when you can't set keys on your Git account  ***# sudo nano ~/.ssh/config*** |
|  | 1. **Clone the project** | ***#git clone git@github.com:Rena041/renassh.git*** |