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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 |
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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) |
|  | Checking for existing SSH keys | Enter ls -al ~/.ssh to see if existing SSH keys are present |
|  | Check the directory listing to see if you already have a public SSH key. By default, the filenames of supported public keys for GitHub are one of the following.   1. *id\_rsa.pub* 2. *id\_ecdsa.pub* 3. *id\_ed25519.pub* |  |
|  | 1. If you receive an error that ~/.ssh doesn't exist, you do not have an existing SSH key pair in the default location. You can create a new SSH key pair in the next step. |  |
|  | Generating a new SSH key | $ ssh-keygen -t ed25519 -C "*your\_email@example.com*"  This creates a new SSH key, using the provided email as a label. |
|  | Adding your SSH key to the ssh-agent |  |
|  | 1. Start the ssh-agent in the background | $ eval "$(ssh-agent -s)" |
|  | 1. Add your SSH private key to the ssh-agent | $ ssh-add ~/.ssh/id\_ed25519 |
|  | Adding a new SSH key to your account | gh ssh-key add *key-file* |
|  | 1. To include a title for the new key, use the -t or --title flag. 2. If you generated your SSH key, you can add the key to your account with this command. | gh ssh-key add *key-file* --title "personal laptop"  gh ssh-key add ~/.ssh/id\_ed25519.pub |