Web & Database Developer

COMPUTER PRACTICAL PAPER

Tibetan Computer Resource Centre(TCRC) - DOF

Under Secretary

Duration: 3:00 hrs   Maximum Marks: 100

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Access the server with IP: 192.168.56.4 username: tcrc / password: tcrc

1. Create a new user(developer) in Ubuntu Server with sudoer privilege   **(20 Marks)**

    a. Create a private and public key to access the server from your remote computer

    b. Change the ssh port number to 4000

    c. Access the server using the newly created user and create a folder called **project** with permission owner-full, the group - read-only, others- read-only and keep all your subsequent files in this folder.

2. Set up a Virtual host for the project folder with the hostname of your choice. **(15Marks)**

3. Make the server accessible only to a few IP addresses of your choice and block ssh access for some IPs   **(15Marks)**

4. Make a new MySQL username called exam, create a new database named exam_db, and assign it to the newly created user.   **(10 Marks)**

5. Create a cron job to export exam_db from the database every Tuesday at 04:50 **(10 Marks)**

6. Analyze the access log file and extract the last 10 records with their Network IP, machine detail, OS details, and timing.   **(15Marks)**

7. Create a PHP class called student with the constructor function for any 5 subjects in it and perform average percentage. Create a class called detail and inherit its members from the student class. (Put this file with the name index.php at the root of the project folder) **(15 Marks)**