**EC2 Ubuntu Instance Create Files and Directories and Grand R/W/X Access only to the Owner and User Group**

**Step 1: Connect to Your EC2 Ubuntu Instance(connect via Putty)**

**A screenshot of a computer screen

AI-generated content may be incorrect.**

**Step 2: Create Directories**

Let's create some sample directories for this assignment:

# Create a main project directory

mkdir project\_folder

# Create subdirectories

mkdir project\_folder/documents

mkdir project\_folder/scripts

mkdir project\_folder/data

**Step 3: Create Files**

Now let's create some files in these directories:

# Create files in the main directory

touch project\_folder/readme.txt

touch project\_folder/config.conf

# Create files in subdirectories

touch project\_folder/documents/report.txt

touch project\_folder/scripts/backup.sh

touch project\_folder/data/database.csv

**Step 4: Check Current Permissions**

Before changing permissions, let's see the current permissions:

ls -la project\_folder/

ls -la project\_folder/documents/

ls -la project\_folder/scripts/

**Step 5: Set Directory Permissions (Owner and Group RWX)**

Set permissions for directories to allow owner and group full access:

# Set permissions for main directory

chmod 770 project\_folder/

# Set permissions for subdirectories

chmod 770 project\_folder/documents/

chmod 770 project\_folder/scripts/

chmod 770 project\_folder/data/

**Alternative method** - Set permissions recursively for all directories:

find project\_folder/ -type d -exec chmod 770 {} \;

**Step 7: Set File Permissions (Owner and Group RW)**

For files, we typically use **660** (read/write for owner and group, no access for others):

# Set permissions for individual files

chmod 660 project\_folder/readme.txt

chmod 660 project\_folder/config.conf

chmod 660 project\_folder/documents/report.txt

chmod 660 project\_folder/data/database.csv

For script files, use **770** to make them executable:

chmod 770 project\_folder/scripts/backup.sh

**Step 8: Verify the Changes**

Check that permissions have been applied correctly:

# Check directory permissions

ls -ld project\_folder/

ls -ld project\_folder/\*/

# Check file permissions

ls -la project\_folder/

ls -la project\_folder/documents/

ls -la project\_folder/scripts/

ls -la project\_folder/data/