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https://github.com/markayles/CIS245-LinuxAdministration

Autonomous generation of users in linux with name collision handling

From a text file of names on individual lines, I created a script to take each name, designate a unique username based on the individual's name, and assign that user to a specified user group.

```
namePortions = x.split(" ")
username = namePortions[0][0].lower()
username += namePortions[len(namePortions) - 1].lower()
username = re.sub('[\W]', '', username)
password = generateRandomPassword()

while checkIfUsernameExists(username):
    print("[ *USERNAME EXISTS - Appending number ] ")
    username += random.choice(string.digits)

printStatement = ""
printStatement += "("+str(namesToAddCurrent)+"/"+str(namesToAddCount)+")"
printStatement += "Adding user " + x + " (" + username + ") pass: " + password
print(printStatement)

os.system("sudo useradd -G " + groups[groupsAddIndex] + " -m -c \"" + x + "\" " +
username)
os.system("echo \""+username+":"+password+"\" | sudo chpasswd")
```

Lockdown your server in an instant

I created a script that allows system administrators to lockdown their server in a moment's notice. My script makes sure you are the only person in or out while you address the situation. Protect your server and your data.

```
import os

print("UNPLUGGING SHIT")
#os.system("")

#This is clearly a placeholder... pretend a nice script excerpt lives here
```

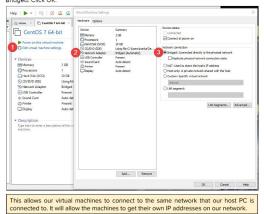
Meticulous server and application documentation

From barebones operating system setup to installation and configuration of security applications, firewalls, and policies, I outline every step of the way. Without documentation, you are taking shots in the dark.



Connecting to the Virtual Machines

- For each of your virtual machines, power them down and then click edit virtual machine settings.
- In the list, click on Network Adapter, and then change the network connection to Bridged. Click OK.



- Currently, both machines will listen on port 22 for an incoming SSH connection. One of the machines will need to listen on a different port if we would like to be able to have both machines running and connect to either. We will change the port from 22 to 2222 on the Ubuntu server.
- 4. Navigate to /etc/ssh/ and enter the command sudo vi sshd_config.
- Find the line that says Port 22, uncomment it by removing the #, and then change 22 to 2222. Save the file.
- 6. Add the new 2222 port to the firewall by entering sudo ufw allow 2222/tcp.