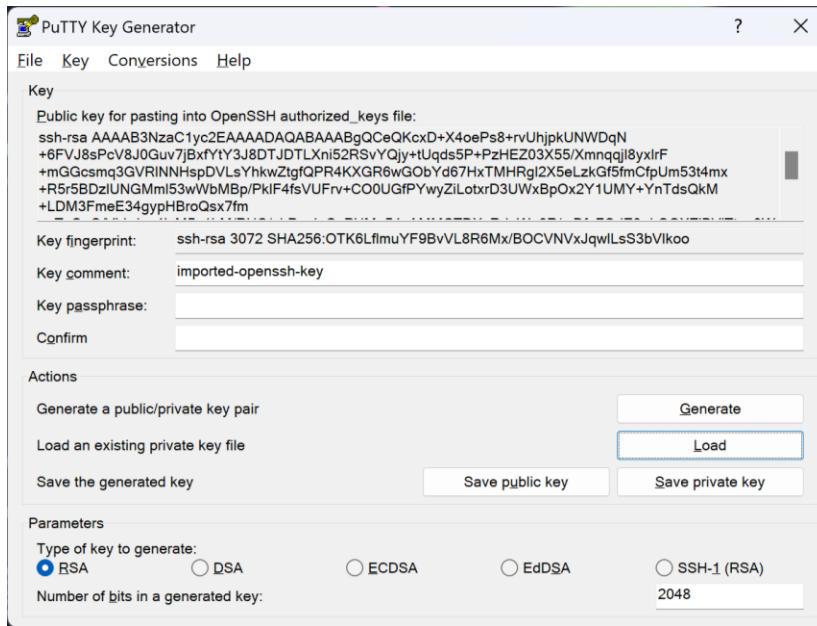


**Student Name: Hifza Ashfaque**

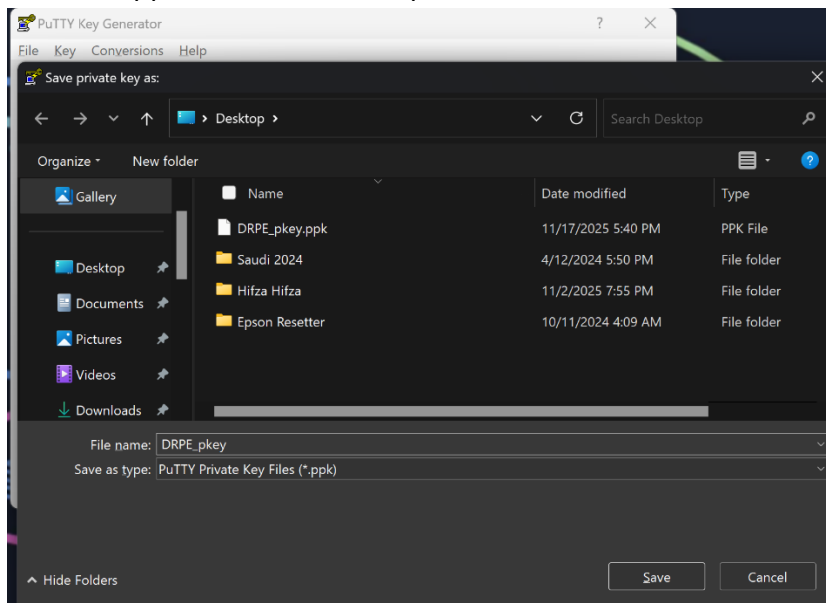
**Student ID: 35818859**

## PuTTY

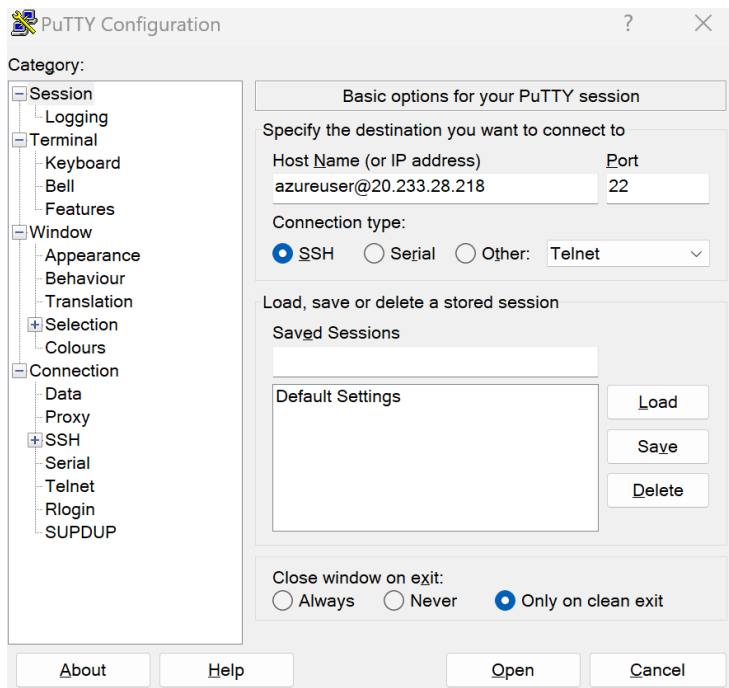
Using PuTTY Key Generator, generate .ppk file to connect virtual machine server:



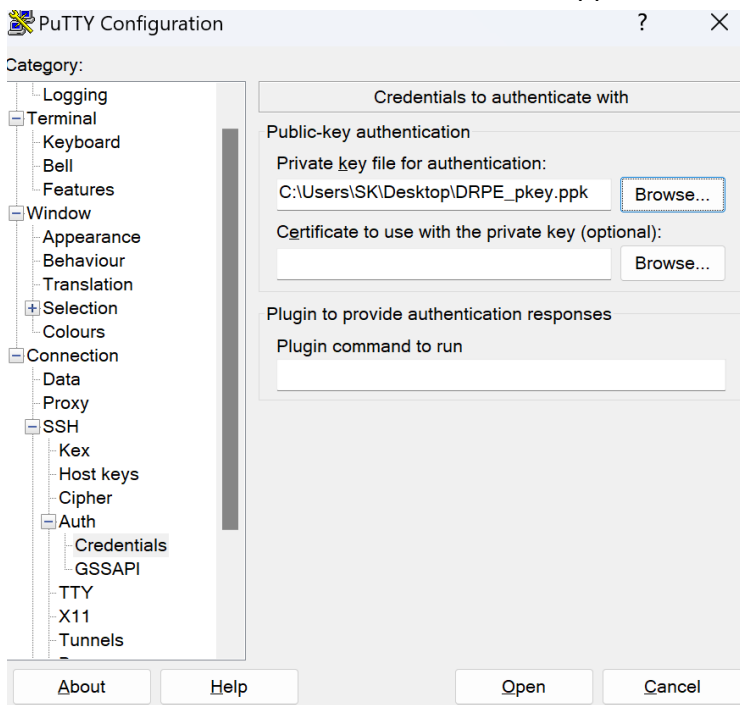
Save the .ppk file onto the computer:



Using PuTTY Configuration, add the details such as username@ip\_address:



And in Authorization Credentials, write the .ppk file directory.



Once the above two details have been entered, press Open to connect:

```
azureuser@DRPElx: ~  
Expanded Security Maintenance for Applications is not enabled.  
0 updates can be applied immediately.  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
azureuser@DRPElx:~$
```

Checking whether apache2 is installed and running:

```
azureuser@DRPElx:~$ sudo systemctl status apache2  
● apache2.service - The Apache HTTP Server  
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)  
   Active: active (running) since Tue 2025-11-18 08:08:25 UTC; 2 days ago  
     Docs: https://httpd.apache.org/docs/2.4/  
  Process: 38855 ExecReload=/usr/sbin/apachectl graceful (code=exited, status=0/SUCCESS)  
 Main PID: 17709 (apache2)  
    Tasks: 55 (limit: 9507)  
  Memory: 9.0M (peak: 12.2M)  
     CPU: 11.974s  
   CGroup: /system.slice/apache2.service  
           └─17709 /usr/sbin/apache2 -k start  
             └─38860 /usr/sbin/apache2 -k start  
               └─38861 /usr/sbin/apache2 -k start  
  
Nov 18 08:08:25 DRPElx systemd[1]: Starting apache2.service - The Apache HTTP Server...  
Nov 18 08:08:25 DRPElx systemd[1]: Started apache2.service - The Apache HTTP Server.  
Nov 20 00:00:06 DRPElx systemd[1]: Reloading apache2.service - The Apache HTTP Server...  
Nov 20 00:00:06 DRPElx systemd[1]: Reloaded apache2.service - The Apache HTTP Server.
```