

Duke University x Amazon Lightsail for Research For Students



Welcome to Amazon Lightsail for Research at Duke University!

IMPORTANT!

- Your instance will shut down automatically without notice if left idle for >15 minutes. You should periodically save your work to minimize loss of information.
- Please be mindful of resource costs and stop your virtual computer when not in use.

Getting Started

Step 1: Login to Lightsail for Research (LFR)

You have been provided a unique onetime password to first get started with your account. Once you log in for the first time, you will be prompted to update your password. Your password must have at least 1 uppercase letter, 1 number and a special character.

Note: The account ID/alias is 'du-mids' rather than your individual account ID.

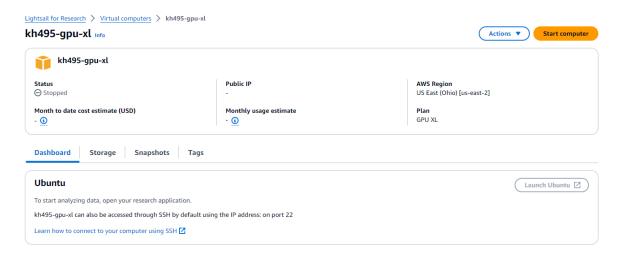
Console sign-in link: https://du-mids.signin.aws.amazon.com/console

Username: your Duke NetID

Account ID (12 digits) or account alias du-mids IAM user name kh495 Password Remember this account

Step 2: Open your LFR VM Dashboard

LFR Console: https://lfr.console.aws.amazon.com/ls/research/webapp/home/virtual-computers





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Step 3: Launch your Virtual Computer

Start Computer > Status: Running > Launch Ubuntu

Note: You will need to enable browser pop-ups for your Virtual Computer to launch.

Complete the Ubuntu setup to configure your keyboard and privacy settings.



Step 4: Open Terminal

From Home screen > Activities > Show Applications > Terminal



Note: You can also use the Terminal launch shortcut: CTRL + ALT + T



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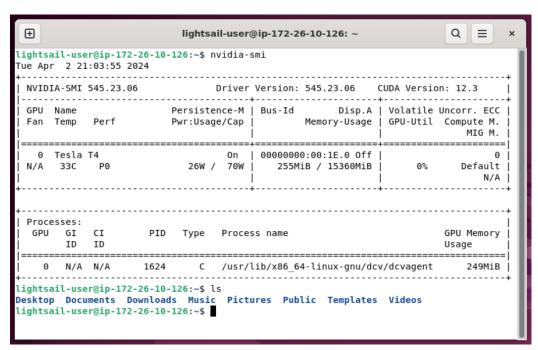


Run the following sanity checks in the terminal:

```
# Check GPU
$ nvidia-smi
# List directory contents
$ ls
```

Note: In Ubuntu, Copy/Paste commands are CTRL+SHIFT+C/V

You can expect outputs like the following:



Step 4: Configuring your IDE

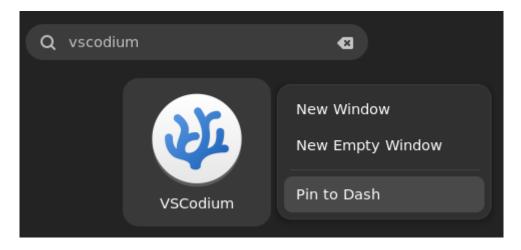
The recommended IDE is VSCodium. Refer to the installation instructions for Ubuntu here: https://vscodium.com/#install-on-debian-ubuntu-deb-package



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Activities > Search: VSCodium > Pin to Dash

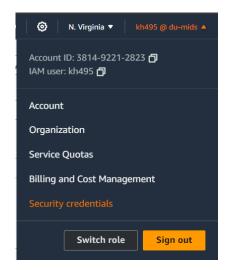


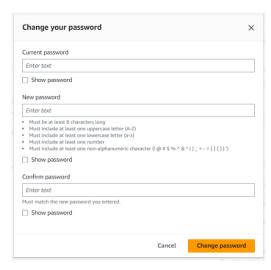
You're all setup and ready to use Amazon Lightsail for Research!

Password Management

If you forget your password, please contact your administrator.

To change your password: Account > Security Credentials > Update Console Password





SSH Access

If you'd like to access your machine over SSH, you can follow these steps.

Step 1: Request the key pair for your VM

Ask your administrator for the private key pair and download to your local machine.



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From your local terminal execute the following commands

```
$ cd/path/to/dkp_rsa

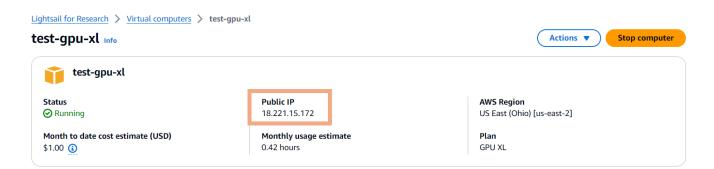
# Move key file
$ mv dkp_rsa ~/.ssh

# Set permissions
$ chmod 700 ~/.ssh
$ chmod 600 ~/.ssh/dkp_rsa
```

Step 2: Retrieve your public IP address

From your LFR instance dashboard > Start Computer > Copy Public IP address

NB: You may need to refresh the page once the VM is running to see the IP address.



Step 3: SSH into your VM

From your local terminal

```
# Open SSH tunnel
$ ssh -i ~/.ssh/dkp_rsa ubuntu@<YOUR_PUBLIC_IP>

# Accept fingerprint and run sanity check
ubuntu@ip$ nvidia-smi
```

IMPORTANT! The user entry point for SSH ('lightsail-user') and the GUI ('ubuntu') are not the same. To preserve a seamless machine state if switching between SSH and GUI it is recommended you operate within the 'lightsail-user' directory.

```
ubuntu@ip$ cd ../lightsail-user
ubuntu@ip$ ls
```