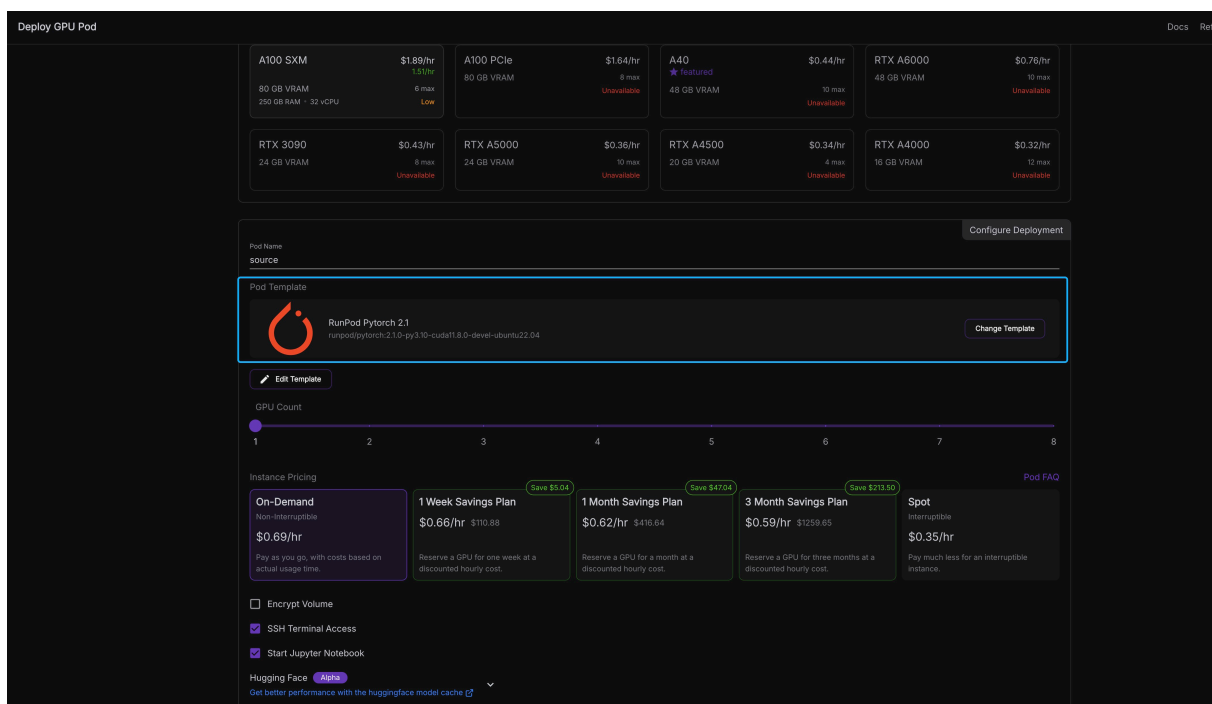


Moving Data Between Data Centers

1. Create a new network volume in the target data center.
2. Deploy two pods using the default RunPod PyTorch template, mounting the source and target network volumes separately.



3. Start the web terminal in both pods to begin the data transfer.

4. Generate a pair of ssh key on **source** machine

```
apt update && apt install -y vim rsync tmux openssh-client && \
ssh-keygen -t ed25519 -f ~/.ssh/id_ed25519 -N "" -q && \
cat ~/.ssh/id_ed25519.pub
```

5. Copy the above public key and add to the destination machine `authorized_keys`

```
apt update && apt install -y vim rsync openssh-client && \
ip=$(printenv RUNPOD_PUBLIC_IP) && \
port=$(printenv RUNPOD_TCP_PORT_22) && \
echo "rsync -avzP --inplace -e \"ssh -p $port\" /workspace/ root@$ip:/wor
```

```
kspace" && \  
vi ~/.ssh/authorized_keys
```

6. After you run above command and ingest the public key, you will get rsync command

```
update-alternatives: warning: skip creation of /usr/share/man/pl/man1/vi.1.gz because associated file /usr/share/man/pl/man1/vim.1.gz (of link group vi) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/ru/man1/vi.1.gz because associated file /usr/share/man/ru/man1/vim.1.gz (of link group vi) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/man1/vi.1.gz because associated file /usr/share/man/man1/vim.1.gz (of link group vi) doesn't exist  
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/view (view) in auto mode  
update-alternatives: warning: skip creation of /usr/share/man/da/man1/view.1.gz because associated file /usr/share/man/da/man1/vim.1.gz (of link group view) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/de/man1/view.1.gz because associated file /usr/share/man/de/man1/vim.1.gz (of link group view) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/fr/man1/view.1.gz because associated file /usr/share/man/fr/man1/vim.1.gz (of link group view) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/it/man1/view.1.gz because associated file /usr/share/man/it/man1/vim.1.gz (of link group view) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/ja/man1/view.1.gz because associated file /usr/share/man/ja/man1/vim.1.gz (of link group view) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/pl/man1/view.1.gz because associated file /usr/share/man/pl/man1/vim.1.gz (of link group view) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/ru/man1/view.1.gz because associated file /usr/share/man/ru/man1/vim.1.gz (of link group view) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/man1/view.1.gz because associated file /usr/share/man/man1/vim.1.gz (of link group view) doesn't exist  
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/ex (ex) in auto mode  
update-alternatives: warning: skip creation of /usr/share/man/da/man1/ex.1.gz because associated file /usr/share/man/da/man1/vim.1.gz (of link group ex) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/de/man1/ex.1.gz because associated file /usr/share/man/de/man1/vim.1.gz (of link group ex) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/fr/man1/ex.1.gz because associated file /usr/share/man/fr/man1/vim.1.gz (of link group ex) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/it/man1/ex.1.gz because associated file /usr/share/man/it/man1/vim.1.gz (of link group ex) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/ja/man1/ex.1.gz because associated file /usr/share/man/ja/man1/vim.1.gz (of link group ex) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/pl/man1/ex.1.gz because associated file /usr/share/man/pl/man1/vim.1.gz (of link group ex) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/ru/man1/ex.1.gz because associated file /usr/share/man/ru/man1/vim.1.gz (of link group ex) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/man1/ex.1.gz because associated file /usr/share/man/man1/vim.1.gz (of link group ex) doesn't exist  
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/editor (editor) in auto mode  
update-alternatives: warning: skip creation of /usr/share/man/da/man1/editor.1.gz because associated file /usr/share/man/da/man1/vim.1.gz (of link group editor) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/de/man1/editor.1.gz because associated file /usr/share/man/de/man1/vim.1.gz (of link group editor) doesn't exist  
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update-alternatives: warning: skip creation of /usr/share/man/ja/man1/editor.1.gz because associated file /usr/share/man/ja/man1/vim.1.gz (of link group editor) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/pl/man1/editor.1.gz because associated file /usr/share/man/pl/man1/vim.1.gz (of link group editor) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/ru/man1/editor.1.gz because associated file /usr/share/man/ru/man1/vim.1.gz (of link group editor) doesn't exist  
update-alternatives: warning: skip creation of /usr/share/man/man1/editor.1.gz because associated file /usr/share/man/man1/vim.1.gz (of link group editor) doesn't exist  
Setting up python3.10 (3.10.12-1-22.04.10) ...  
Processing triggers for mailcap (3.70+nmulubuntu1) ...  
-----  
rsync -avzP --inplace -e "ssh -p 22102" /workspace/ root@69.30.85.187:/workspace  
root@ec2ad38e6d3:/workspace
```

7. Copy this command and run it on source machine or follow below instruction to manually set it up.

7. Take the destination Pod IP and Port number, Run the rsync command on source machine

Connection Options [X]

Connect SSH

HTTP Services
Connect to your service using HTTP using a proxied domain and port

Jupyter Lab → :8888 [Ready] [Share]

Web Terminal
Connect to your pod using a terminal directly in your browser

● Stopped [Start]

Direct TCP Port
Connect to your pod using direct TCP connections to exposed ports.

66.114.112.70 34592 → :22 [IP] [Port]

```
# start a new tmux session, name it "transfer"
tmux new -s transfer

# sync files between source /workspace to destination /workspace
# using destination machine's IP address and port number in below comma
nd
rsync -avzP --inplace -e "ssh -p destination_port_number" /workspace/ ro
ot@destination_ip_address:/workspace
# Example:
rsync -avzP --inplace -e "ssh -p 18598" /workspace/ root@157.66.254.13:/
workspace

# ctrl + b
# press d
```

```
# which will detach you, close the terminal and can come back and re attach  
h  
tmux attach -t transfer
```

Use `du -sh /workspace` to check disk size`