

Azure Lab Services

labs.azure.com

Azure Lab Services


Bejelentkezés

Üdvözli az Azure Lab Services

Az Azure Lab Services-zel könnyedén tarthat tanórát, beállíthat egy képzési tesztkörnyezetet, vagy Hackathon versenyt tarthat a felhőben, amelyet a diákok és a felhasználók bármikor, bárhonnant elérhetnek.

Nyissa meg az Azure Lab Services weboldalát a böngészőjében.


Már felhasználó? [Bejelentkezés](#)




Most kezdi meg az Azure Lab Services használatát?

Kövesse az alábbi lépéseket a kezdéshez.


1 Azure-előfizetés igénylése

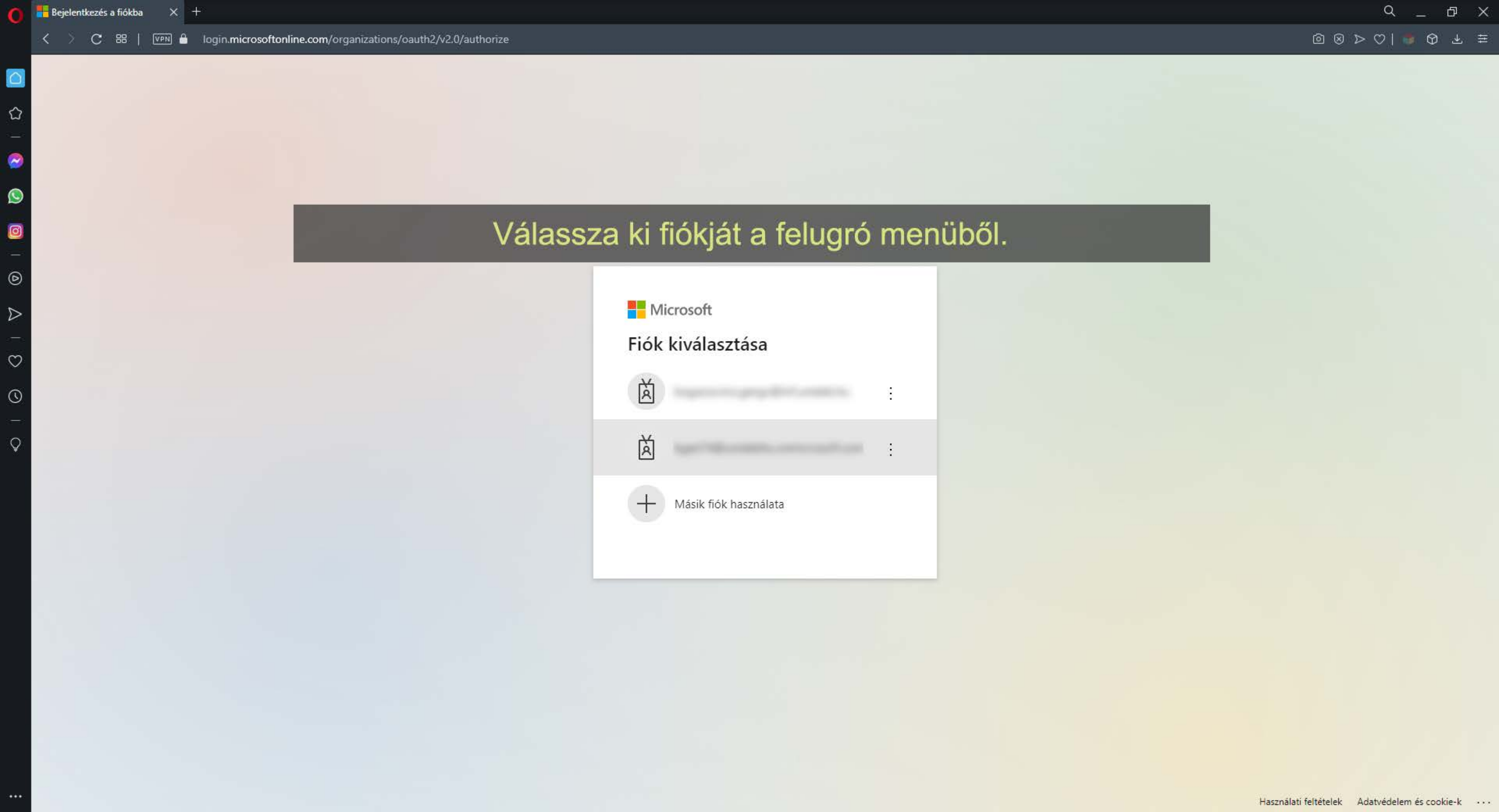


2 Tesztkörnyezeti fiók hozzáadása



3 Az első tesztkörnyezet létrehozása





Válassza ki fiókját a felugró menüből.



Fiók kiválasztása

 Másik fiók használata

Saját virtuális gépek – Azure

labs.azure.com/virtualmachines

Azure Lab Services

Saját virtuális gépek

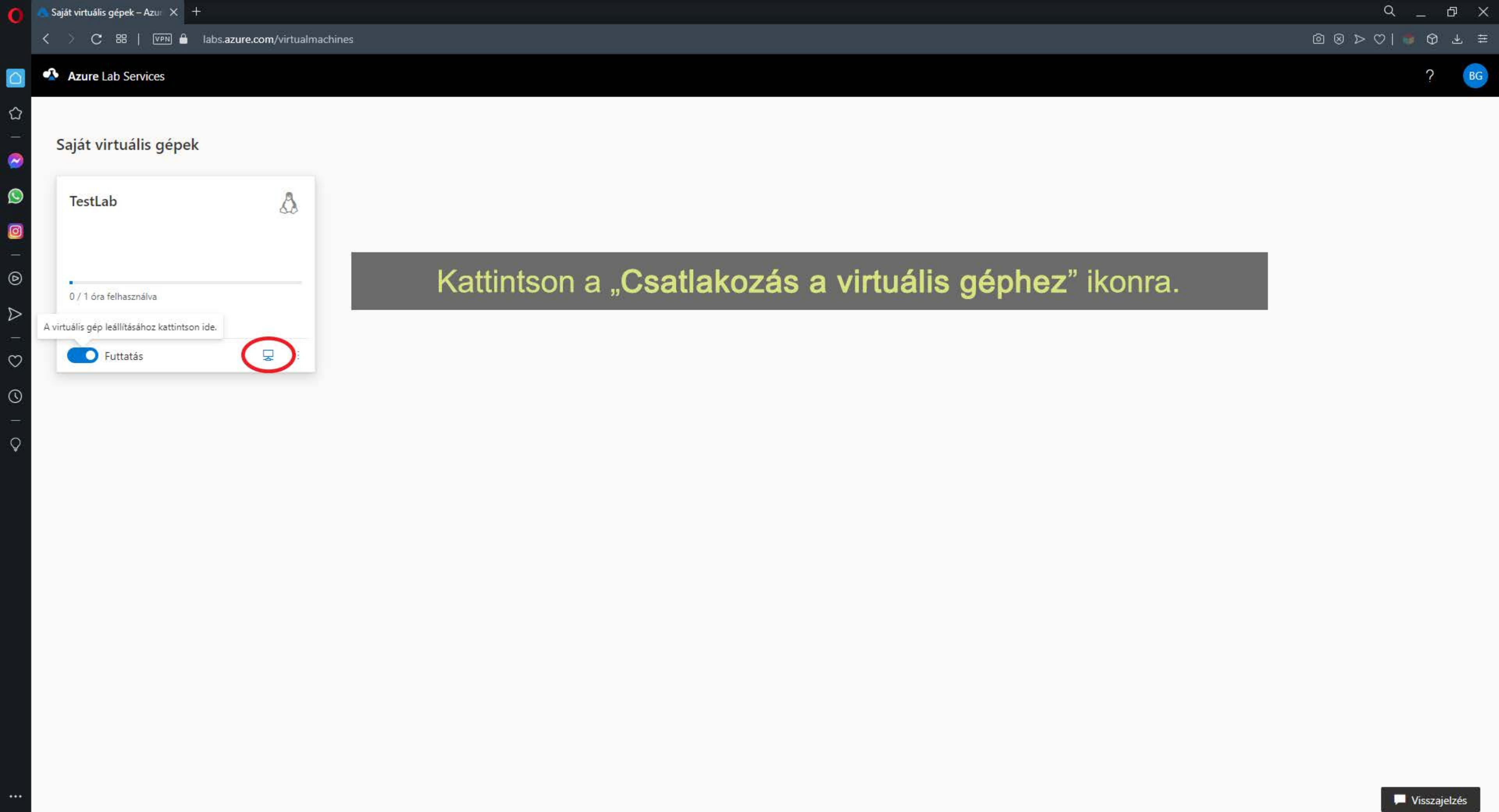
TestLab

0 / 1 óra felhasználva

Beállítva

Válassza ki a használni kívánt virtuális gépet és indítsa el.

Visszajelzés



Saját virtuális gépek

TestLab



0 / 1 óra felhasználva

A virtuális gép leállításához kattintson ide.



Futtatás



Kattintson a „Csatlakozás a virtuális géphez” ikonra.

Saját virtuális gépek – Azure

labs.azure.com/virtualmachines

Azure Lab Services

Saját virtuális gépek

TestLab

0 / 1 óra felhasználva

Futtatás

Jelszó beállítása

Adja meg a bejelentkezéskor használandó új jelszót. A jelszó beállítása több percet is igénybe vehet.

Felhasználónév

username

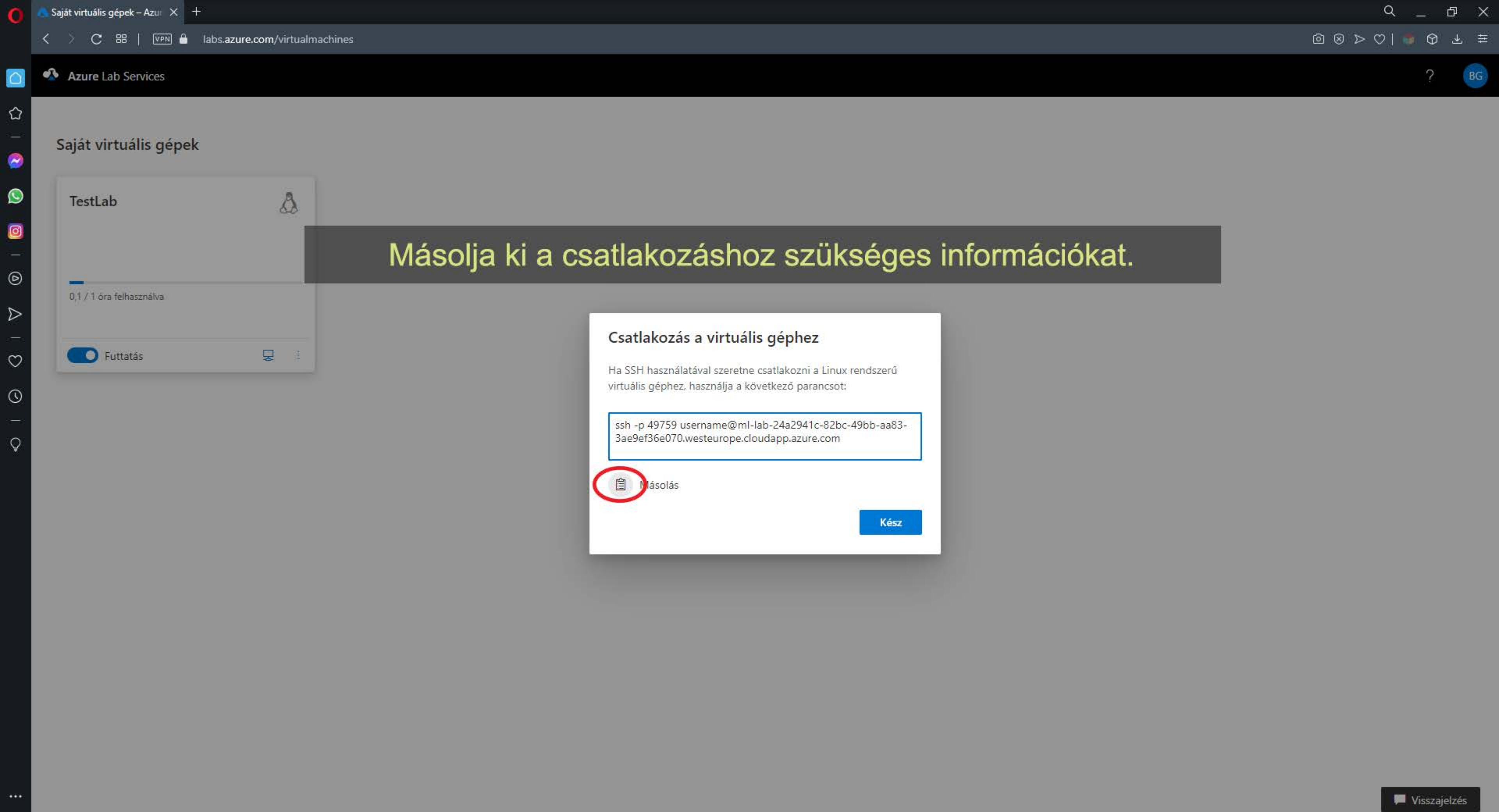
Jelszó

Jelszó beállítása

Mégse

Adja meg az Ön által használni tervezett, saját jelszavát.

Visszajelzés



Másolja ki a csatlakozáshoz szükséges információkat.

Csatlakozás a virtuális géphez

Ha SSH használatával szeretne csatlakozni a Linux rendszerű virtuális géphez, használja a következő parancsot:

```
ssh -p 49759 username@ml-lab-24a2941c-82bc-49bb-aa83-3ae9ef36e070.westeurope.cloudapp.azure.com
```

 Másolás

Kész

FileEditSelectionViewGoRunTerminalHelp

EXTENSIONS: MAR...

ssh

Remote - SSH 0.64.0
Open any folder on a remote machine ...
Microsoft

SSH FS 1.19.4
File system, terminal and task provider ...
Kelvin Schoofs

Remote - SSH: Editing Config... 0.65.1
Edit SSH configuration files
Microsoft

Remote - SSH (Nightly) 2021.3.13860
Open any folder on a remote machine ...
Microsoft

Remote X11 (SSH) 1.5.0
Enables X11 forwarding with the Remot...
Joel Spadin

SSH Client 1.8.1
SSH Client for vscode
cweijan

SSH Tools 1.0.16
SSH Tools for vscode
XPLOT

SSH Tooling 0.0.4
Edit SSH config and launch host config...
Christof Marti

SSH Terminal 0.0.4
SSH Terminal
cooper

Terminal SSH 0.2.1
Terminal SSH
sailhenz

Google Cloud Platform SSH 1.0.0
Connect to Google Cloud VM instances...
Andrew Dircks

upload-files-ssh 0.5.0
Carregar arquivos para o servidor utiliz...
Ricardo B. Macedo

Extension: Remote - SSH X

Remote - SSH ms-vscode-remote.remote-ssh Preview

Microsoft | 2 982 288 | 5 stars | Repository | License | v0.64.0

Open any folder on a remote machine using SSH and take advantage of VS Code's full feature set.

Disable Uninstall This extension is enabled globally.

Details Feature Contributions

Telepítse a Remote - SSH Visual Studio Code kiegészítőt.

Extension Pack (1)

Remote - SSH: Editing Config... Edit SSH configuration files Microsoft

Visual Studio Code Remote - SSH

The Remote - SSH extension lets you use any remote machine with a SSH server as your development environment. This can greatly simplify development and troubleshooting in a wide variety of situations. You can:

- Develop on the same operating system you deploy to or use larger, faster, or more specialized hardware than your local machine.
- Quickly swap between different, remote development environments and safely make updates without worrying about impacting your local machine.
- Access an existing development environment from multiple machines or locations.
- Debug an application running somewhere else such as a customer site or in the cloud.



No source code needs to be on your local machine to gain these benefits since the extension runs commands and other extensions directly on the remote machine. You can open any folder on the remote machine and work with it just as you would if the folder were on your own machine.



SSH Host Requirements

You can connect to a running SSH server on the following platforms.

REMOTE EXPLORER

SSH TARGETS

+  

>  ml-lab-24a2941c-82bc-49bb... 

> HELP AND FEEDBACK





Enter SSH Connection Command


```
49759 username@ml-lab-24a2941c-82bc-49bb-aa83-3ae9ef36e070.westeurope.cloudapp.azure.com
```

Press 'Enter' to confirm your input or 'Escape' to cancel

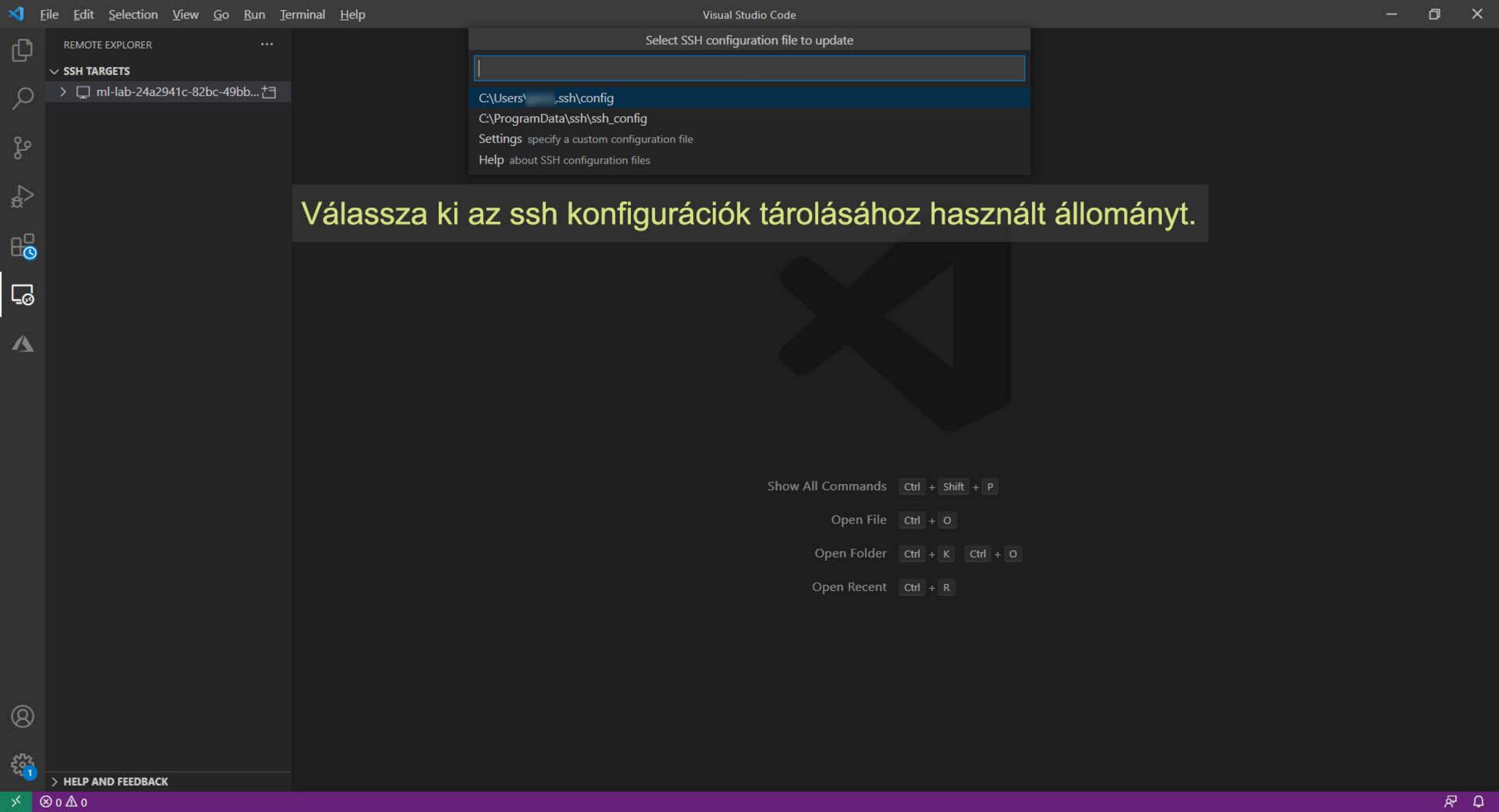
Hozzon létre új távoli kapcsolatot az információk beillesztésével.

Show All Commands       

Open File    

Open Folder        

Open Recent    



Select SSH configuration file to update

C:\Users\...\.ssh\config
C:\ProgramData\ssh\ssh_config
Settings specify a custom configuration file
Help about SSH configuration files

Válassza ki az ssh konfigurációk tárolásához használt állományt.

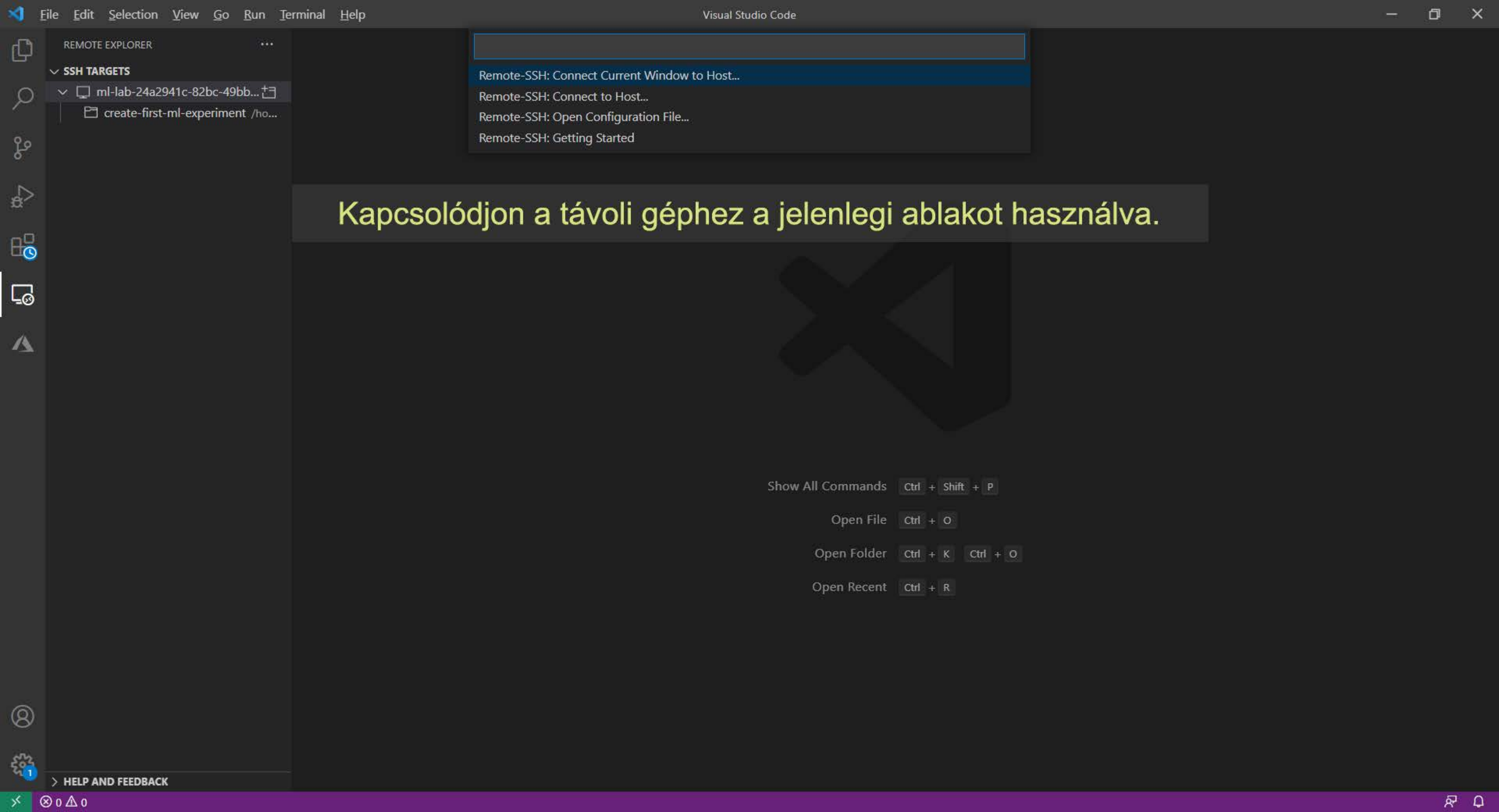
Show All Commands **Ctrl** + **Shift** + **P**

Open File **Ctrl** + **O**

Open Folder **Ctrl** + **K** **Ctrl** + **O**

Open Recent **Ctrl** + **R**

> HELP AND FEEDBACK



Kapcsolódjon a távoli géphez a jelenlegi ablakot használva.

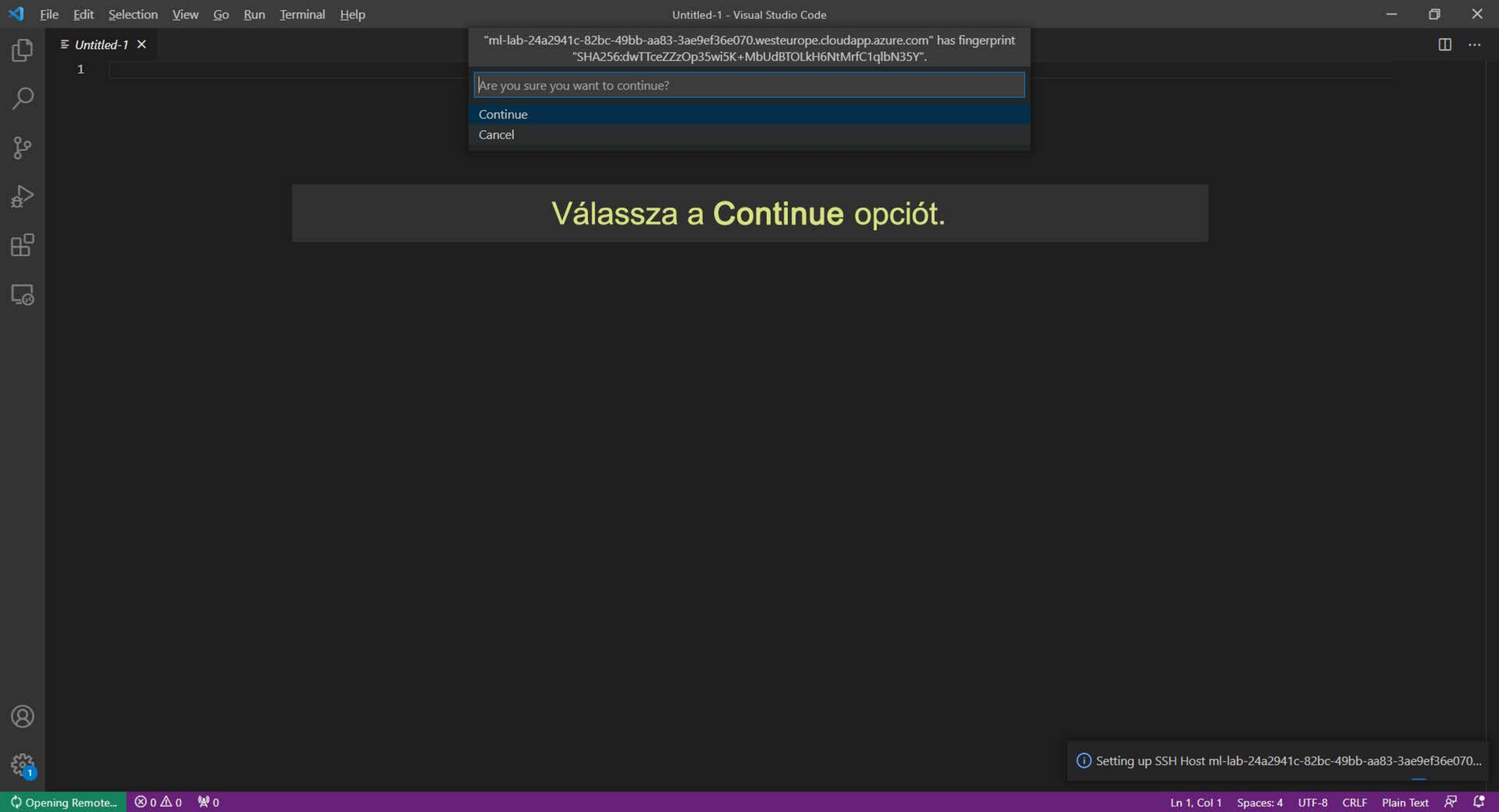
Show All Commands **Ctrl** + **Shift** + **P**

Open File **Ctrl** + **O**

Open Folder **Ctrl** + **K** **Ctrl** + **O**

Open Recent **Ctrl** + **R**

> HELP AND FEEDBACK



"ml-lab-24a2941c-82bc-49bb-aa83-3ae9ef36e070.westeurope.cloudapp.azure.com" has fingerprint
"SHA256:dwTTceZZzOp35wi5K+MbUdBTOLkH6NtMrFC1qlbN35Y".

Are you sure you want to continue?

Continue

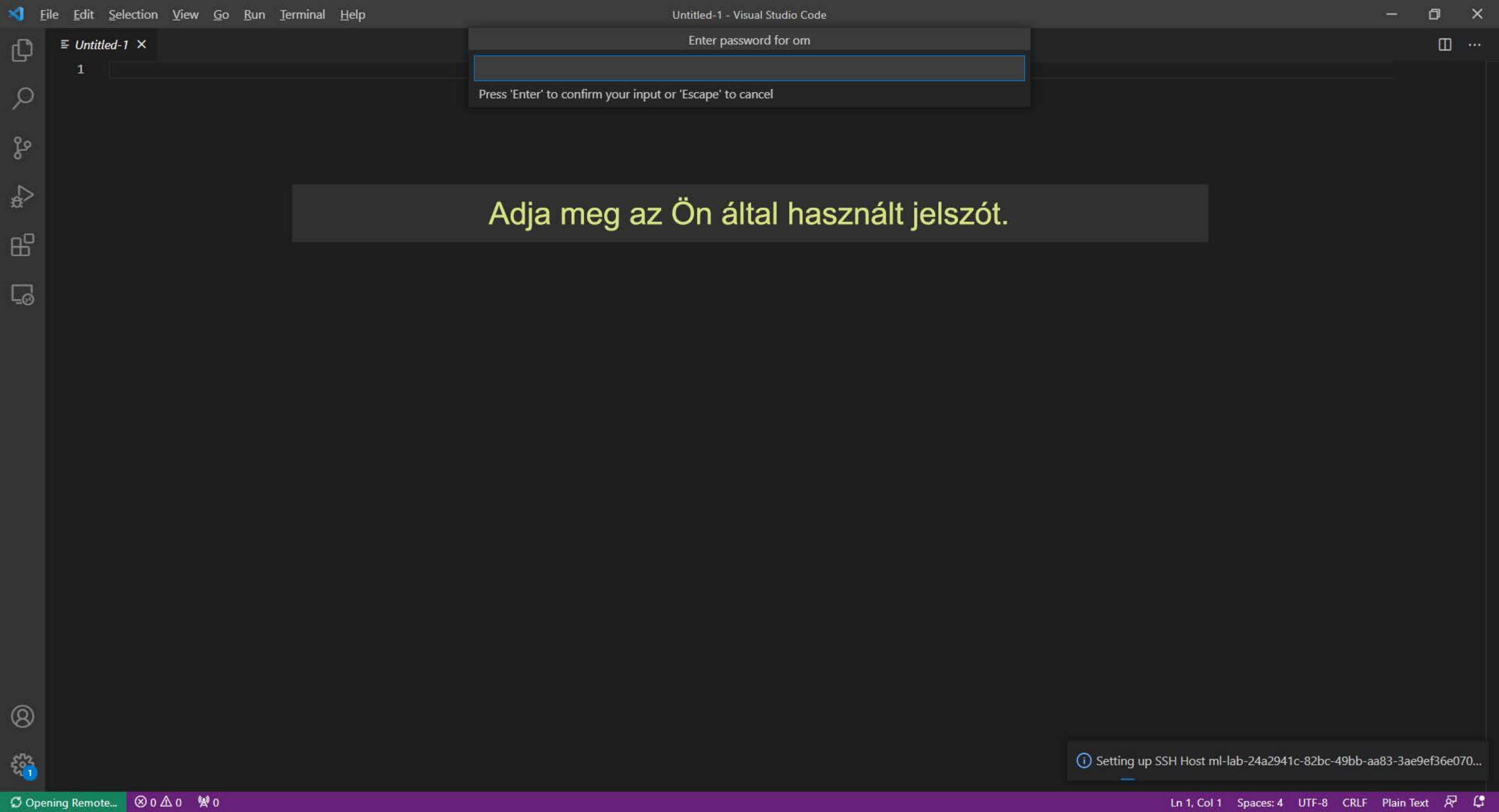
Cancel

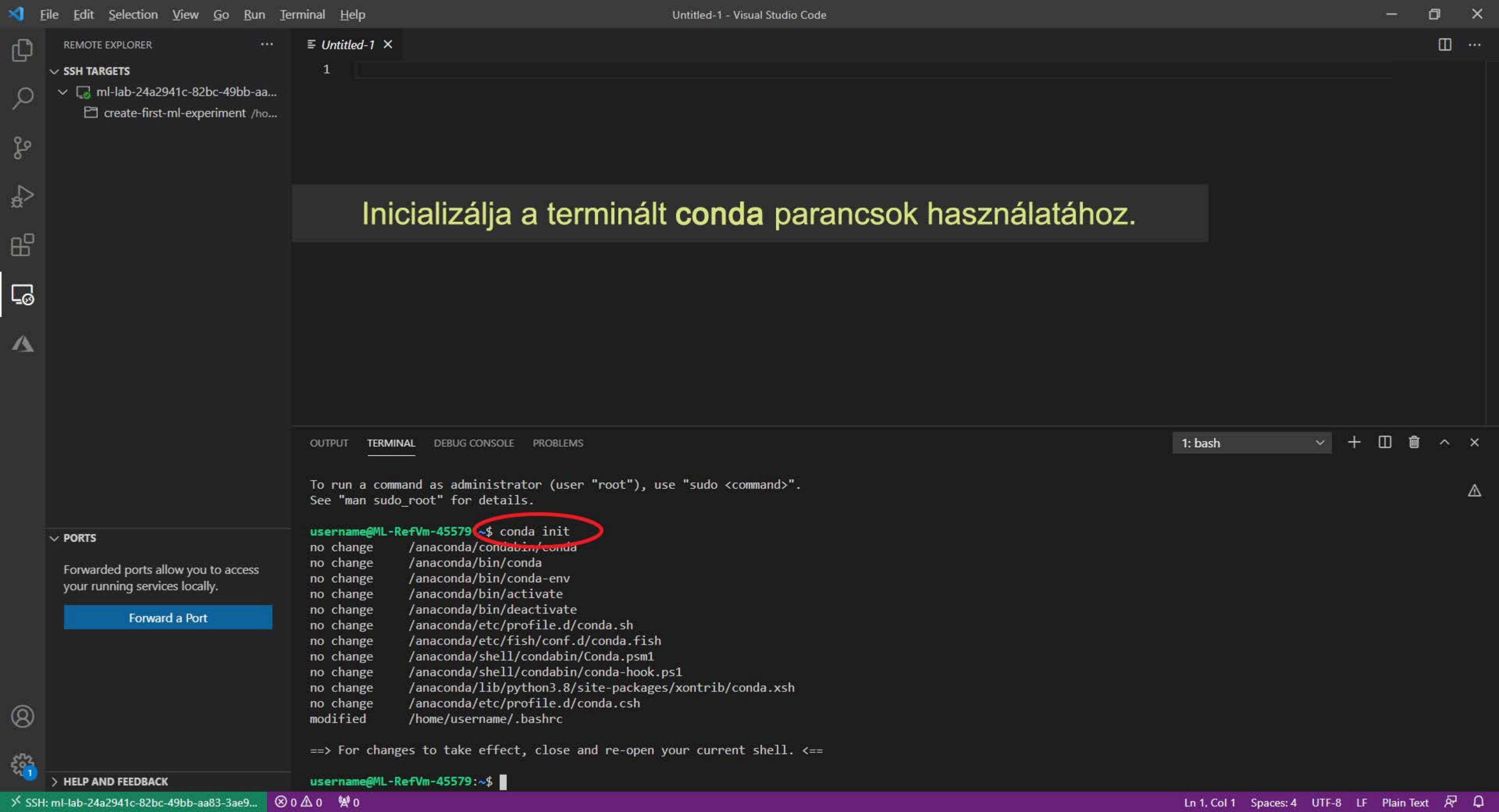
Válassza a Continue opciót.

Setting up SSH Host ml-lab-24a2941c-82bc-49bb-aa83-3ae9ef36e070...

Opening Remote...

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Plain Text





Inicializálja a terminált conda parancsok használatához.

OUTPUT TERMINAL DEBUG CONSOLE PROBLEMS

1: bash

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

```
username@ML-RefVm-45579:~$ conda init
no change      /anaconda/condabin/conda
no change      /anaconda/bin/conda
no change      /anaconda/bin/conda-env
no change      /anaconda/bin/activate
no change      /anaconda/bin/deactivate
no change      /anaconda/etc/profile.d/conda.sh
no change      /anaconda/etc/fish/conf.d/conda.fish
no change      /anaconda/shell/condabin/Conda.psm1
no change      /anaconda/shell/condabin/conda-hook.ps1
no change      /anaconda/lib/python3.8/site-packages/xontrib/conda.xsh
no change      /anaconda/etc/profile.d/conda.csh
modified       /home/username/.bashrc
```

==> For changes to take effect, close and re-open your current shell. <==

```
username@ML-RefVm-45579:~$
```

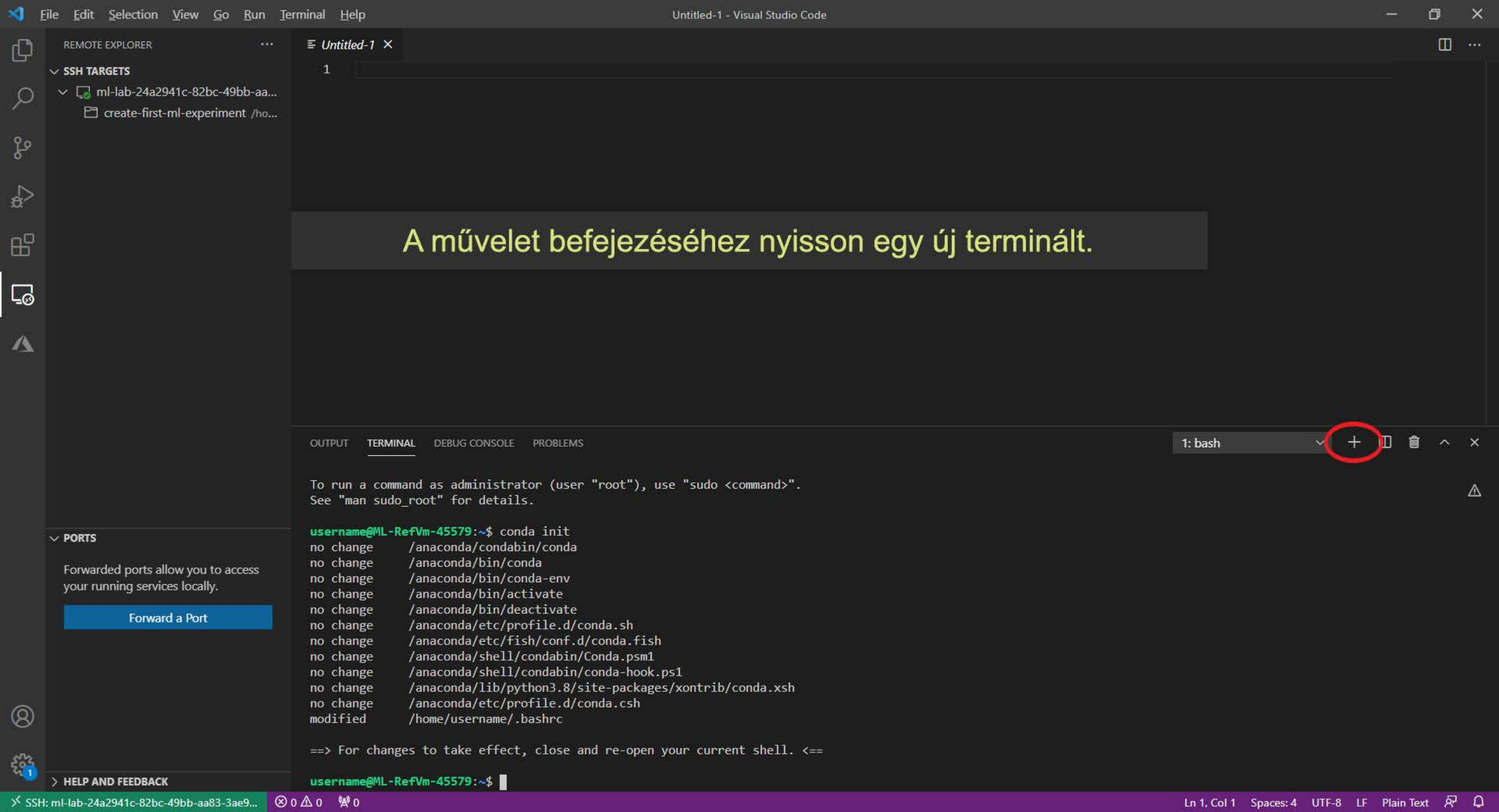
PORTS

Forwarded ports allow you to access
your running services locally.

Forward a Port

> HELP AND FEEDBACK

Ln 1, Col 1 Spaces: 4 UTF-8 LF Plain Text



A művelet befejezéséhez nyisson egy új terminált.

OUTPUT TERMINAL DEBUG CONSOLE PROBLEMS

1: bash

+

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

```
username@ML-RefVm-45579:~$ conda init
no change      /anaconda/condabin/conda
no change      /anaconda/bin/conda
no change      /anaconda/bin/conda-env
no change      /anaconda/bin/activate
no change      /anaconda/bin/deactivate
no change      /anaconda/etc/profile.d/conda.sh
no change      /anaconda/etc/fish/conf.d/conda.fish
no change      /anaconda/shell/condabin/Conda.psm1
no change      /anaconda/shell/condabin/conda-hook.ps1
no change      /anaconda/lib/python3.8/site-packages/xontrib/conda.xsh
no change      /anaconda/etc/profile.d/conda.csh
modified       /home/username/.bashrc
```

==> For changes to take effect, close and re-open your current shell. <==

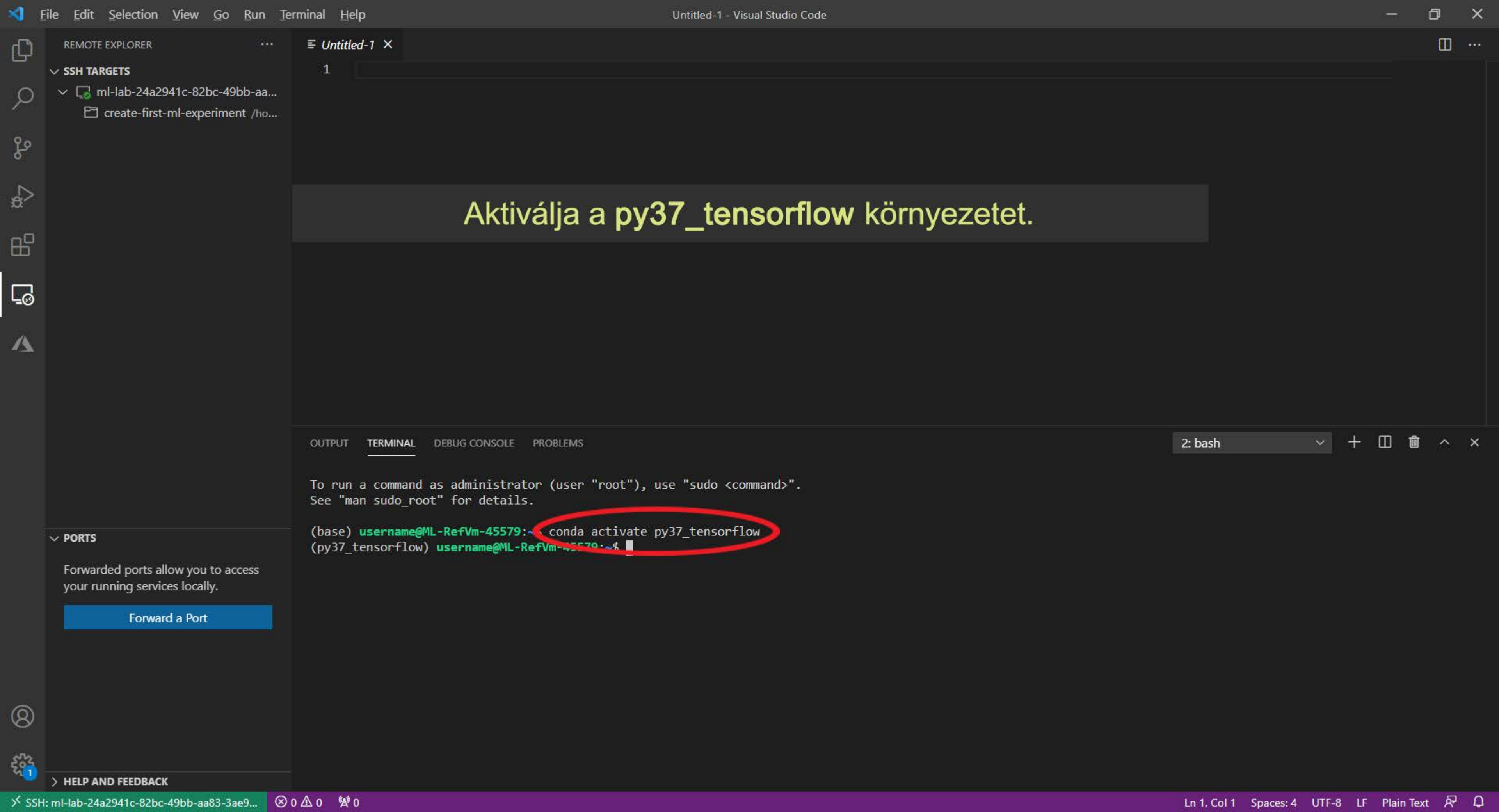
```
username@ML-RefVm-45579:~$
```

> HELP AND FEEDBACK

SSH: ml-lab-24a2941c-82bc-49bb-aa83-3ae9...

0 0 0

Ln 1, Col 1 Spaces: 4 UTF-8 LF Plain Text



Aktiválja a py37_tensorflow környezetet.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

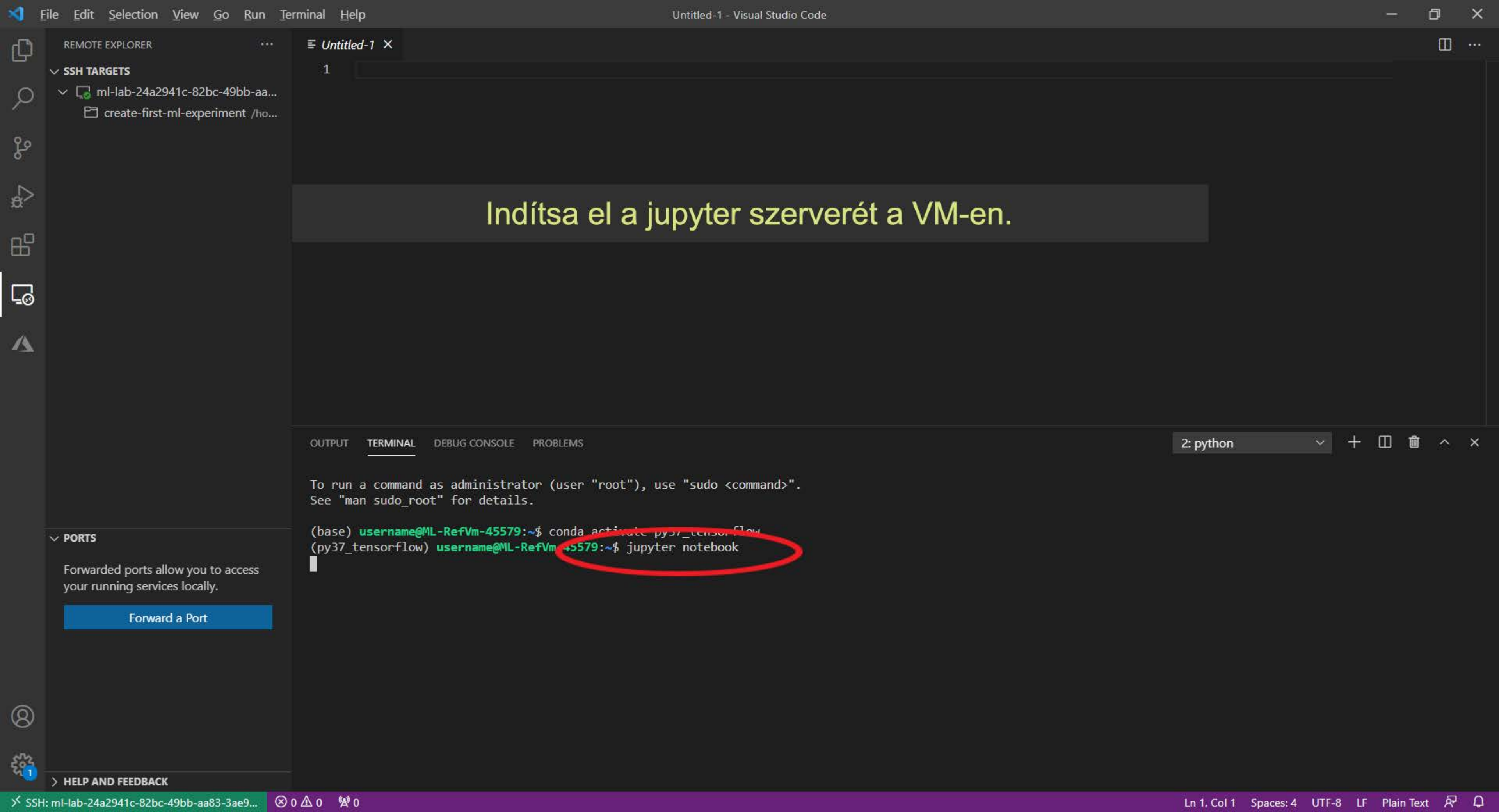
(base) username@ML-RefVm-45579:~\$ conda activate py37_tensorflow
(py37_tensorflow) username@ML-RefVm-45579:~\$

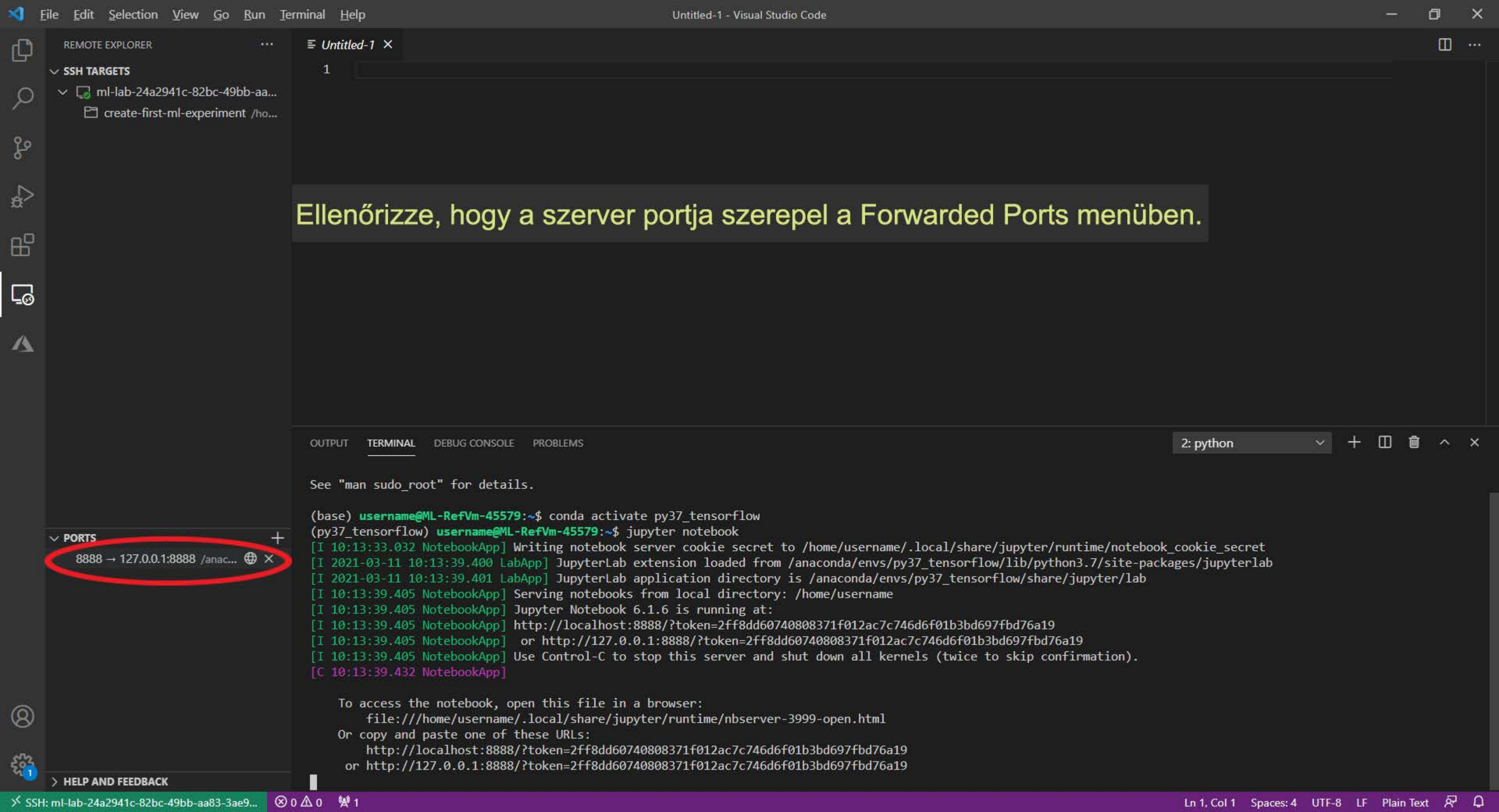
Forwarded ports allow you to access
your running services locally.

Forward a Port

> HELP AND FEEDBACK

Ln 1, Col 1 Spaces: 4 UTF-8 LF Plain Text



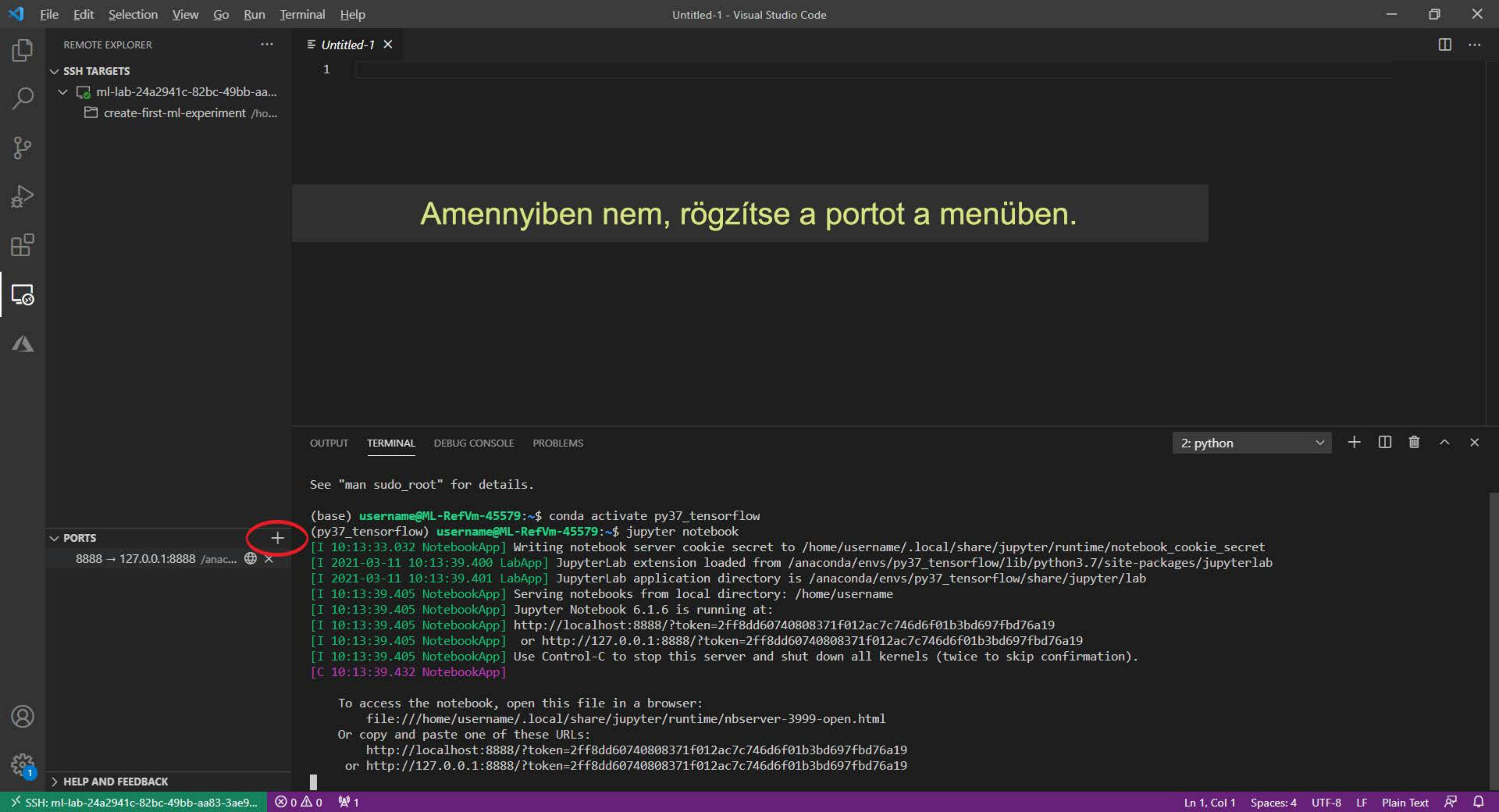


Ellenőrizze, hogy a szerver portja szerepel a Forwarded Ports menüben.

See "man sudo_root" for details.

```
(base) username@ML-RefVm-45579:~$ conda activate py37_tensorflow
(py37_tensorflow) username@ML-RefVm-45579:~$ jupyter notebook
[I 10:13:33.032 NotebookApp] Writing notebook server cookie secret to /home/username/.local/share/jupyter/runtime/notebook_cookie_secret
[I 2021-03-11 10:13:39.400 LabApp] JupyterLab extension loaded from /anaconda/envs/py37_tensorflow/lib/python3.7/site-packages/jupyterlab
[I 2021-03-11 10:13:39.401 LabApp] JupyterLab application directory is /anaconda/envs/py37_tensorflow/share/jupyter/lab
[I 10:13:39.405 NotebookApp] Serving notebooks from local directory: /home/username
[I 10:13:39.405 NotebookApp] Jupyter Notebook 6.1.6 is running at:
[I 10:13:39.405 NotebookApp] http://localhost:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
[I 10:13:39.405 NotebookApp] or http://127.0.0.1:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
[I 10:13:39.405 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 10:13:39.432 NotebookApp]
```

To access the notebook, open this file in a browser:
file:///home/username/.local/share/jupyter/runtime/nbserver-3999-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
or http://127.0.0.1:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19



Amennyiben nem, rögzítse a portot a menüben.

See "man sudo_root" for details.

```
(base) username@ML-RefVm-45579:~$ conda activate py37_tensorflow
```

```
(py37_tensorflow) username@ML-RefVm-45579:~$ jupyter notebook
```

```
[I 10:13:33.032 NotebookApp] Writing notebook server cookie secret to /home/username/.local/share/jupyter/runtime/notebook_cookie_secret
```

```
[I 2021-03-11 10:13:39.400 LabApp] JupyterLab extension loaded from /anaconda/envs/py37_tensorflow/lib/python3.7/site-packages/jupyterlab
```

```
[I 2021-03-11 10:13:39.401 LabApp] JupyterLab application directory is /anaconda/envs/py37_tensorflow/share/jupyter/lab
```

```
[I 10:13:39.405 NotebookApp] Serving notebooks from local directory: /home/username
```

```
[I 10:13:39.405 NotebookApp] Jupyter Notebook 6.1.6 is running at:
```

```
[I 10:13:39.405 NotebookApp] http://localhost:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
```

```
[I 10:13:39.405 NotebookApp] or http://127.0.0.1:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
```

```
[I 10:13:39.405 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
```

```
[C 10:13:39.432 NotebookApp]
```

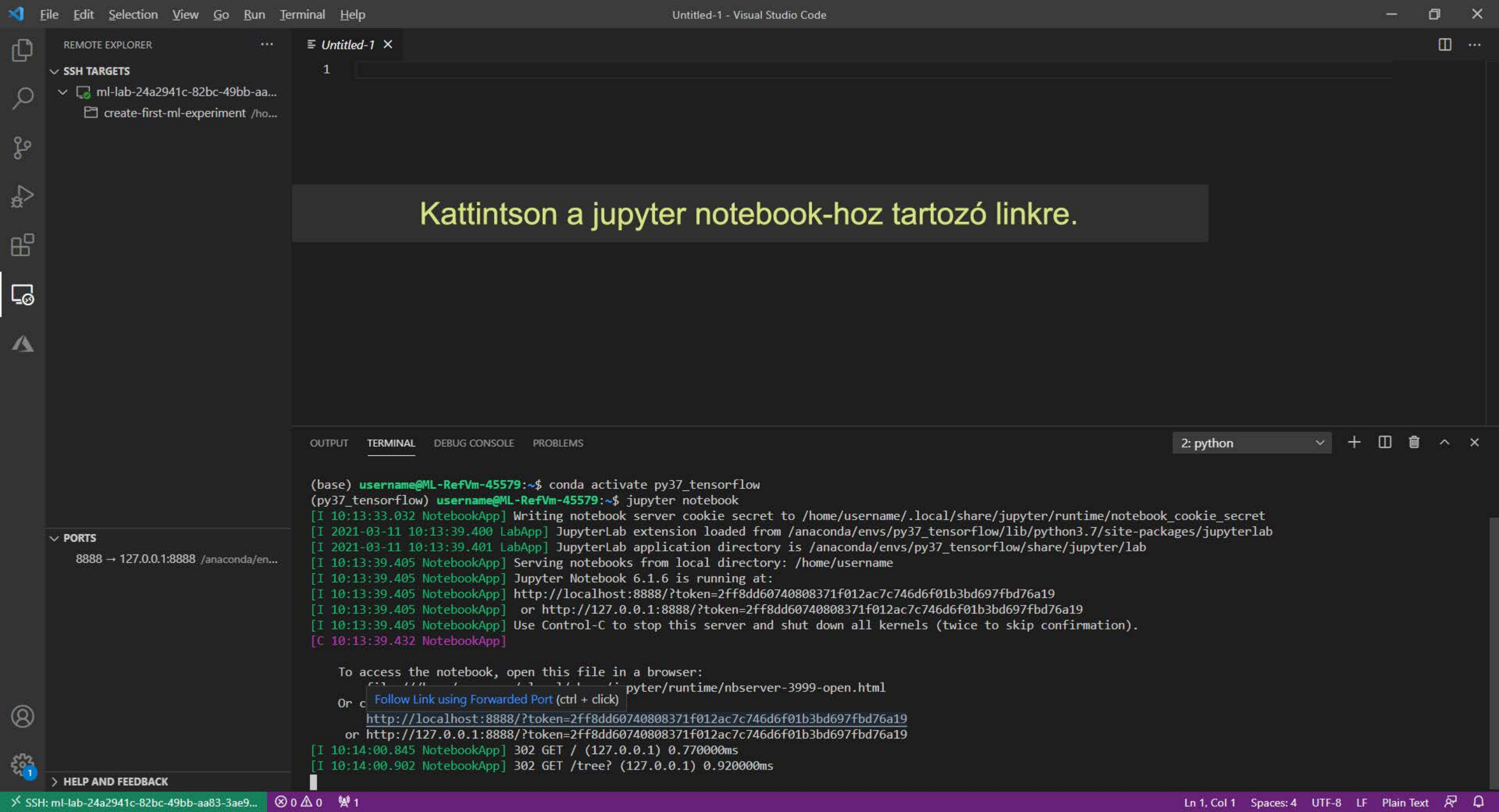
To access the notebook, open this file in a browser:

```
file:///home/username/.local/share/jupyter/runtime/nbserver-3999-open.html
```

Or copy and paste one of these URLs:

```
http://localhost:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
```

```
or http://127.0.0.1:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
```

Kattintson a jupyter notebook-hoz tartozó linkre.

```
(base) username@ML-RefVm-45579:~$ conda activate py37_tensorflow
(py37_tensorflow) username@ML-RefVm-45579:~$ jupyter notebook
[I 10:13:33.032 NotebookApp] Writing notebook server cookie secret to /home/username/.local/share/jupyter/runtime/notebook_cookie_secret
[I 2021-03-11 10:13:39.400 LabApp] JupyterLab extension loaded from /anaconda/envs/py37_tensorflow/lib/python3.7/site-packages/jupyterlab
[I 2021-03-11 10:13:39.401 LabApp] JupyterLab application directory is /anaconda/envs/py37_tensorflow/share/jupyter/lab
[I 10:13:39.405 NotebookApp] Serving notebooks from local directory: /home/username
[I 10:13:39.405 NotebookApp] Jupyter Notebook 6.1.6 is running at:
[I 10:13:39.405 NotebookApp] http://localhost:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
[I 10:13:39.405 NotebookApp] or http://127.0.0.1:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
[I 10:13:39.405 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 10:13:39.432 NotebookApp]

To access the notebook, open this file in a browser:
    file:///home/username/.local/share/jupyter/runtime/nbserver-3999-open.html
Or c
http://localhost:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
or http://127.0.0.1:8888/?token=2ff8dd60740808371f012ac7c746d6f01b3bd697fbd76a19
[I 10:14:00.845 NotebookApp] 302 GET / (127.0.0.1) 0.770000ms
[I 10:14:00.902 NotebookApp] 302 GET /tree? (127.0.0.1) 0.920000ms
```

Saját virtuális gépek – Azure

Home Page - Select or create

127.0.0.1:8888/tree

Quit

Logout

jupyter

Files

Running

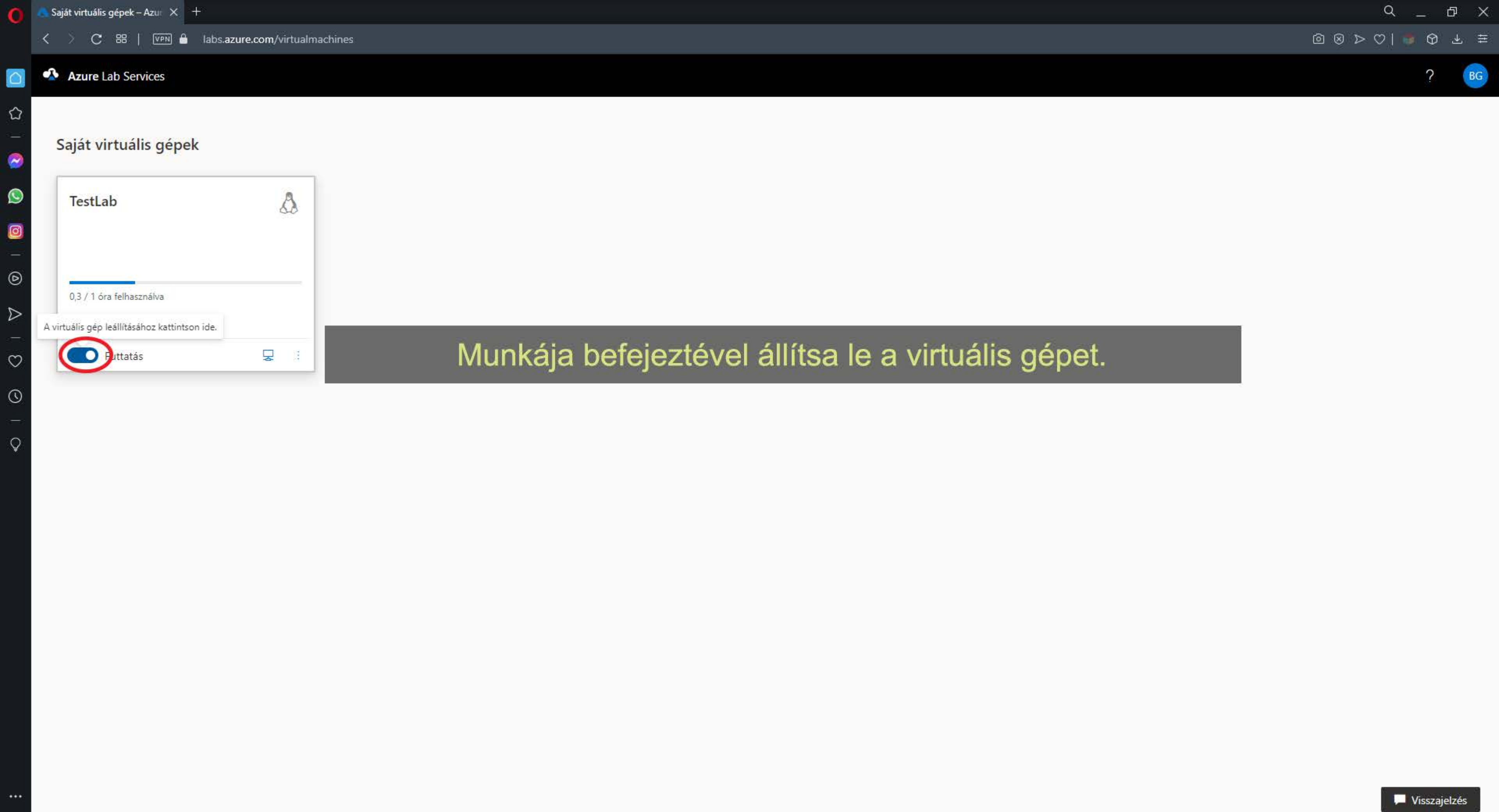
Clusters

Select items to perform actions on them.

Upload

New

<input type="checkbox"/>	0		/	Name	Last Modified	File size
<input type="checkbox"/>			Desktop		2 hónapja	
<input type="checkbox"/>			notebooks		2 hónapja	



Munkája befejeztével állítsa le a virtuális gépet.

2. Opció: PuTTY

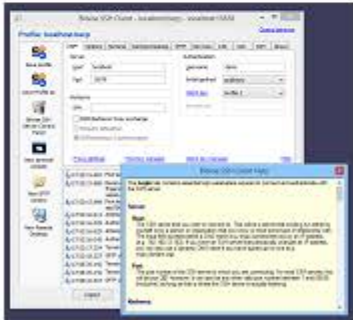


Download PuTTY

PuTTY is an SSH and telnet client, developed originally by Simon Tatham for the Windows platform. PuTTY is open source software that is available with source code and is developed and supported by a group of volunteers.

You can download PuTTY [here](#).

Below suggestions are independent of the authors of PuTTY. They are *not* to be seen as endorsements by the PuTTY project.



Bitvise SSH Client

Bitvise SSH Client is an SSH and SFTP client for Windows. It is developed and supported professionally by Bitvise. The SSH Client is robust, easy to install, easy to use, and supports all features supported by PuTTY, as well as the following:

- graphical SFTP file transfer;
- single-click Remote Desktop tunneling;
- auto-reconnecting capability;
- dynamic port forwarding through an integrated proxy;
- an FTP-to-SFTP protocol bridge.

Bitvise SSH Client is **free to use**. You can [download it here](#).



Bitvise SSH Server

Download PuTTY: latest release (0.74)

[Home](#) | [FAQ](#) | [Feedback](#) | [Licence](#) | [Updates](#) | [Mirrors](#) | [Keys](#) | [Links](#) | [Team](#)
Download: [Stable](#) · [Snapshot](#) | [Docs](#) | [Changes](#) | [Wishlist](#)

This page contains download links for the latest released version of PuTTY. Currently this is 0.74, released on 2020-06-27.

When new releases come out, this page will update to contain the latest, so this is a good page to bookmark or link to. Alternatively, here is a [permanent link to the 0.74 release](#).

Release versions of PuTTY are versions we think are reasonably likely to work well. However, they are often not the most up-to-date version of the code available. If you have a problem with this release, then it might be worth trying out the [development snapshots](#), to see if the problem has already been fixed in those versions.

Package files

You probably want one of these. They include versions of all the PuTTY utilities.

(Not sure whether you want the 32-bit or the 64-bit version? Read the [FAQ entry](#).)

MSI ('Windows Installer')

32-bit: [putty-0.74-installer.msi](#) [\(or by FTP\)](#) [\(signature\)](#)

64-bit: [putty-64bit-0.74-installer.msi](#) [\(or by FTP\)](#) [\(signature\)](#)

Unix source archive

.tar.gz: [putty-0.74.tar.gz](#) [\(or by FTP\)](#) [\(signature\)](#)

Alternative binary files

Category:

Session

Logging

Terminal

Keyboard

Bell

Features

Window

Appearance

Behaviour

Translation

Selection

Colours

Connection

Data

Proxy

Telnet

Rlogin

SSH

Serial

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address)

Port

ml-lab-680677cf-dfd7-41ec-be41-2f204bt

58951

Connection type:

☐ Raw☐ Telnet☐ Rlogin☒ SSH☐ Serial

Load, save or delete a stored session

Saved Sessions

lab.cloudapp.azure.com

Default Settings

Load

Save

Delete

Close window on exit:

☐ Always☐ Never☒ Only on clean exit

About

Help

Open

Cancel

Category:

- Features
- Window
 - Appearance
 - Behaviour
 - Translation
 - Selection
 - Colours
- Connection
 - Data
 - Proxy
 - Telnet
 - Rlogin
 - SSH
 - Key
 - Host keys
 - Cipher
 - Auth
 - TTY
 - X11
 - Tunnels
 - Bugs
 - More bugs

Options controlling SSH port forwarding

Port forwarding

- ☐ Local ports accept connections from other hosts
- ☐ Remote ports do the same (SSH-2 only)

Forwarded ports:

Remove

Add new forwarded port:

Source port

8888

Add

Destination

127.0.0.1:8888

☒ Local☐ Remote☐ Dynamic☒ Auto☐ IPv4☐ IPv6

About

Help

Open

Cancel

Category:

- Features
- Window
 - Appearance
 - Behaviour
 - Translation
 - Selection
 - Colours
- Connection
 - Data
 - Proxy
 - Telnet
 - Rlogin
 - SSH
 - Kex
 - Host keys
 - Cipher
 - Auth
 - TTY
 - X11
 - Tunnels
 - Bugs
 - More bugs

Options controlling SSH port forwarding

Port forwarding

- ☐ Local ports accept connections from other hosts
- ☐ Remote ports do the same (SSH-2 only)

Forwarded ports:

Remove

L8888 127.0.0.1:8888

Add new forwarded port:

Source port

Add

Destination




☒ Local☐ Remote☐ Dynamic☒ Auto☐ IPv4☐ IPv6

About

Help

Open

Cancel

 ml-lab-680677cf-dfd7-41ec-be41-2f204bbb6db6.westeurope.cloudapp.azure.com - PuTTY — □ ✕ Using username "username".
 username@ml-lab-680677cf-dfd7-41ec-be41-2f204bbb6db6.westeurope.cloudapp.azure.com's password:

New release '20.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

```
*****
* Welcome to the Ubuntu 18.04 Data Science Virtual Machine! You          *
* can access this DSVM through SSH, view the graphical desktop with      *
* X2Go, or run Jupyter notebooks from a browser on your computer        *
* with JupyterHub. See the docs at https://aka.ms/dsvm/ubuntu/access *
* for more information.                                                 *
*                                                                         *
* A full list of included tools is available at https://aka.ms/dsvm/tools *
*                                                                         *
* This DSVM includes these conda environments:                          *
*   - py37_default                                                         *
*   - py37_tensorflow                                                      *
*   - py37_pytorch                                                         *
*   - azureml_py36_tensorflow                                              *
*   - azureml_py36_pytorch                                                *
*   - azureml_py36_automl                                                 *
*                                                                         *
* Activate any environment at a terminal with                            *
* "conda activate <environment>". Each conda environment is also        *
* available as a Jupyter kernel.                                          *
*****
```

Last login: Tue Mar 16 12:46:28 2021 from 188.143.38.241
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

(base) username@ML-RefVm-940406:~\$ jupyter notebook

REFRESH (1 sec) <http://localhost:8888/tree?token=65d70934f1d2227d941daelfa1354dc8d0bc8de797212109>

Opening Jupyter Notebook

This page should redirect you to Jupyter Notebook. If it doesn't, [click here to go to Jupyter](#).

Commands: Use arrow keys to move, '?' for help, 'q' to quit, '<-' to go back.

Arrow keys: Up and Down to move. Right to follow a link; Left to go back.

H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list

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