

Unit 3

Підключення SSH

Для початку переглянемо публічну IP-адресу віртуальної машини:

```
"privateIpAddress": "10.0.0.4",  
"publicIpAddress": "13.91.105.130",
```

Бачимо, що AZURE CLI вказав шлях на папку з ключами:

```
ssh -v -i /root/.ssh/id_rsa -o UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o PubKeyAcceptedAlgorithms=rsa-sha256  
Use existing SSH public key file: /root/.ssh/id_rsa.pub
```

Перейдемо в директорію .ssh і скопіюємо на наш реальний комп'ютер приватний ssh ключ:

```
6516aa053294:~/.ssh# cat id_rsa  
-----BEGIN RSA PRIVATE KEY-----  
MIIEowIBAAKCAQEAyBgqIN0zgBtvDMceHD8U6I1WzuuLeWfR+BcuffFtrgXFmTH99  
Uf3DbK/KgPKXz4Y7roiBxbjVB4BgmM4f9pOHvtr9akiN2McbDc0Ik5Bda1NjjuPB  
oYzkEbuntg0TZJqYAm2vdgXzDsBTG2DkVmJ8T3THp3XEhs5sCEL4hx5soIF4yb+u  
1wKjdx60LN2iFLDtJ01NgtnhlxhuS9uf7K9v1KZgtLRr9N43wLWsy8BZr6xAV9dh  
gHdGBWNFGAKmVCKpKfCIRGvYaTyu/FYFvKoTLpBc9IR37EwNG2w8ypCeVB8Jo8+/  
Bb5qcV6Nwf07L+OgTHaSMTLfglfiI4WMspbmFwIDAQABAoIBAAzyy18fEWmb417P  
T9qCFodKBjETvLyThFnqnh58CAPzY6xVn7V7l3bkFVWs3TgXtqr/uG4kHN0EaLva  
suTQ/TrTjwyer1c040JLwf3SmxpJ5ipsAK7EoEmpfBvi0rty6Z1WncEkd2sf9QDT  
j1MsLg+yPe1PSK10lDcgplaQGHV2bfGekiefOmX4GbRYz7ELPDaqRW2CrIDbAV7H  
+NNYqLCaL4HFZnd6uEvaTTNbBWVMDTFzZx18UX8ZNYCcURnC7yKxZpzRV1hAV7Zj  
6FpFSqu8nNt4P9hIXqCGso2iKaIoP4tbgo+/o69BX3pPbdox2IS55uVhEuYceeZK  
sC8LtTECgYEA/ShiHg3lCqTfhWNM0iNnvbq8l9D+6p4byebQm0i6irrihK5wcD5  
bbsqXMSH30Tpk1Djmk+NT9ZtXpK49UzMCHeDXytjwJTUMU1/aLOpXrpIKuqRi7  
J62KIPrniYAw0kgiPik0Y1lLtpPSnz128nTd6w0Cnp5BwDuPaMjLRukCgYEAylDE  
aiV8SN+eN7j+8RuTE4Wl5ZCYX0hYokFyTyxHZ3c2ovbqaa6KUYCWqFwy0a7Ss41h  
GURiz0jL4Xqeufrb3Gln0PlAK8yEk0NfjpXpbaGPYF6xkjCSl4G5HgZOzlvvj+9D  
Jf/W53hZa9A/PliyqEEV7eg2XRHC0iAvNxB+pP8CgYA3sLekt9XiKU+S8AjE3FQT  
QTxEH0LkTQb7ZNoZzcpdex2fnSjx/5KfwgoiqaNMsws0thmrq45pnsIa6xEod5Ew  
KHMhwQnRHvnp0bkvHRRZyfsxkHH9zuv0+Y8mXCuWSg3zZFzsEcJtjIpEwtZ9o1bU  
VXMwLPCCFkxejnuo0GsvaQKBgQC5bY3x5JZoRh29nRhTpsJ7IoBsX70LnMY1M9ro  
uYBaTkLQx4z8+oohtMDcVWUBib/n8glo2WXf5iUjYBD0CPPRovsT5Eetm8hk6yoY  
BkQcRvGY9E6w1TiSBby6yjcQH+qDsLWMDlBIYd840WgT378iODs7ghHH6s1e7T23  
rbMRYwKBgEn3xagA06fD0mW0CMCX0Z3Yes0Ku51r4nk+3ThjQDmaAN4+qqpmTVMS  
S/uTh59wrqNr4r+vvxp/00nr0GNAQyik9VoKooU14lUSwFHMpYW4PkhknkvHcTk2z  
n7uVJR4Yajkc03tQGEhnbmCz62L1MDbB00o7Yss8kxbgMops09Yb  
-----END RSA PRIVATE KEY-----
```

Скопіюємо в папку з предметом:

```
sideshowbobgot@localhost:~/university/Infrastructure/Lab1/3_ManageVirtualMachinesWithAzureCLI/Unit3$ cat id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIeOwIBAAKCAQEAYBgqIN0zgBtvDMceHD8U6I1WzuuleWfR+BcufFtrgXFmTH99
Uf3DbK/KgPKXz4Y7roiBxbjVB4BgmM4f9pOHvtr9akiN2McbDc0Ik5Bda1NjjuPB
oYzkEbuntg0TZJqYAm2vdgXzDsBTG2DkVmJ8T3THp3XEhs5sCEL4hx5soIF4yb+u
1wKjdx60LN2ifLDtJ01NgtnhlxhuS9uf7K9v1KZgtLRr9N43wLwsy8BZr6xAV9dh
gHdGBWNFGAKmVCKpKfCIRGvYaTyu/FYFvKoTLpBc9IR37EwNG2w8ypCeVB8Jo8+/
Bb5qcV6NwF07L+OgTHaSMTLfI4WmspbmFwIDAQABAOIBAAZyy18fEWmb417P
T9qCFodKBjETvLyThFnqnh58CAPzY6xVn7V7L3bkFVws3TgXtqr/uG4kHN0EaLva
suTQ/TrTjwyer1c040JLwf3SxmpJ5ipsAK7EoEmpfBvi0rty6Z1WncEkd2sf9QDT
j1MsLg+yPe1PSK10LdCgplaqGHV2bfGekief0mX4GbRYz7ELPdaQRW2CrIDbAV7H
+NNYqLcAl4HFZnd6uEvaTTNbBWVMDTfZzxl8UX8ZNYCcURnC7yKxZpzRV1hAV7Zj
6FpFSqu8nNt4P9hIXqCGso2iKaIoP4tbgo+/o69BX3pPbdox2IS55uVhEuYceeZK
sC8LTECgYEA/ShiiHg3lCqTfhwNM0iNnvbq8l9D+6p4byebQm0i6irrihK5wcD5
bbsqXmSH30Tpk1Djmk+NT9ZxtXpK49UzMCHeDXZytjwJtUMU1/aLOxpRpiKuqRi7
J62KIPrnIvAw0kgiPi0Y1LLtpPSnz128nTd6wOCnp5BwDuPaMjLRukCgYEAylde
aiV8SN+eN7j+8RUtE4WL5ZCYX0hYokFyTyxHZ3c2ovbqaa6KUYCWqFwy0a7Ss41h
GURiz0jL4XqeufRb3Gln0PLAK8yEkONfjpXpbaGPVF6xkjCSl4G5HgZ0Zlvvj+9D
Jf/W53hZa9A/PlIyqEEV7eq2XRHC0iAvNxB+pP8CgYA3sLekT9XiKU+S8AJE3FQT
QTxEH0LkTQb7ZNoZzcpdex2fnSjx/5KfWgoiqaNMsWs0thmrq45pnsIa6xEod5Ew
KHMhwQnRHvnp0bkvHRRZyfsxkHH9zuv0+Y8mXCuWsg3zZFzEcJtjIpEwtZ9o1bu
VXMwLPCCFkxiejnuo0GsvaQKBgQC5bY3x5JZorh29nRhtpsJ7IoBsx70LnMY1M9ro
uYBaTkLQx4z8+oohtMDcVWUBib/n8glo2WXf5iuJYBD0CPPRovsT5Eetm8hk6yoY
BkQcRvGY9E6w1TiSBby6yjcQH+qDsLWMDlBIYd840Wgt378i0Ds7ghHH6s1e7T23
rbMRywKBgEn3xagA06FD0mNOCMCX0Z3Yes0Ku51r4nk+3ThjQDmaAN4+qqpmTVMS
S/uTh59wrqNr4r+vvxp/00nr0GNAQyik9VoKouu14LUSwFHMpyW4PkhkvHcTk2z
n7uVJR4YaJkC03tQGEhnbmCz62L1MDbB00o7Yss8kxbgMops09Yb
-----END RSA PRIVATE KEY-----
```

Надамо ключу ексклюзивні права та залогінімося з допомогою ssh:

```
sideshowbobgot@localhost:~/university/Infrastructure/Lab1/3_ManageVirtualMachinesWithAzureCLI/Unit3$ chmod 600 id_rsa
sideshowbobgot@localhost:~/university/Infrastructure/Lab1/3_ManageVirtualMachinesWithAzureCLI/Unit3$ ssh -i id_rsa panchenko_serhii@13.91.105.130
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1019-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Sat Feb 24 21:47:19 UTC 2024

System load:  0.1318359375      Processes:           100
Usage of /:   5.0% of 28.89GB    Users logged in:    0
Memory usage: 8%                IPv4 address for eth0: 10.0.0.4
Swap usage:   0%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

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.
```