title: "Prerequisites to the Tenant-in-a-day-training"

General information

This guide is ensure the training proceeds as desired, with all participants having fullfilled all basic requirements.

In the training, we will interact with vm

If you know about SSH, can generate your own ssh-keys, and are familiar with a terminal or shell, you can skip this part.

Keyfiles

1. You will generate your own unique keyfile.
2. You will send this keyfile to your trainer.
3. Your keyfile will be given to your VM, which will then be able to recognize and authenticate your session.

A keyfile consists of two parts:

- A private key. You do *NOT* share this, ever.
- A public key, which you can share.

Options to connect over SSH

- Linux and Mac have an SSH client built in.
- Windows *usually* does not.
    - Windows Subsystem for Linux allows you to run Linux commands (including SSH) on your Windows system.
    - MingWin/Git Bash
    - Many more options. You can use whatever you're comfortable with. - Note, however, that the format in which PuttyGen stores the keys is *not* standard; you will need to copy the generated key in a new text file

Getting WSL

1. Open PowerShell (WIN+X, A), and run the following command:

```
Enable-WindowsOptionalFeature -Online -Featureame Microsoft-Windows-Subsystem-Linux
```

2. Reboot when prompted.

3. After rebooting, open the Windows Store, and search for `Ubuntu`.

4. Click `install` or `download`, and wait for it to complete.

5. When it's done, there should be an icon for Ubuntu. Click it, set (and remember!) your password.

6. Go to the next slide (down)

SSH keys (WSL)

8. In your Ubuntu terminal, type

```
sudo apt install ssh
ssh-keygen -t rsa
```

9. Follow the instructions.

10. Open the `run` dialog in Windows (WIN+R), and enter `%LocalAppData%\Packages\`

11. Find the one that has `Ubuntu` in its name

12. Drill down to `\LocalState\rootfs\home\`,

13. Open the folder corresponding to your Ubuntu username, and open the .ssh folder.

14. Mail the `.pub` file to the trainer.

Using WSL

Let's say you've mailed your public keyfile to the trainer, and he sent you the IP of your VM.

- Your `ssh key` is in `.ssh`, and is called `id_iot`.
- The IP you got is 52.59.203.96. You will then run:

```
ssh -i .ssh/id_iot ubuntu@52.59.203.96
```

Where the -i flag stands for `identity`, and `ubuntu` is the default username.

Note that if you're using PowerShell and it's not cooperating, go to the next slide (down)

Getting Git Bash (MingWin)

Link

Generating (MingWin)

UMP

Linux

Mac

Windows

Glossary

- **VM**: Virtual Machine. The trainer made one for everyone. We will identify these based on their IP.
- **SSH**: secure shell. A way to interact with remote systems (such as our VM).
- **Authentication**: the VM only allows SSH connections from systems it knows. So, you'll need to authenticate.