

Multipass Tutorial

Narges Mehran, MSc.

Dr. Dragi Kimovski

Current Topics in Distributed Systems: Internet of
Things and Cloud Computing,

SS2021

What is Multipass?

- Multipass is a lightweight VM manager for Linux, Windows and macOS.
- It's designed for developers who want a fresh Ubuntu environment with a single command.
- It uses KVM on Linux, Hyper-V on Windows and HyperKit on macOS to run the VM with minimal overhead.
- It can also use VirtualBox on Windows and macOS. Multipass will fetch images for you and keep them up to date.
- Since it supports metadata for cloud-init, you can simulate a small cloud deployment on your laptop or workstation.
- Snap,
 - By snap, you can package and publish your app.
 - Just you need to pick the language your app is written in.

What will we learn today?

- In this tutorial, you will learn how to:
 - Get a single-node cloud up and running with Multipass
 - Launch your first VM on multipass and access it

What is the requirement?

- A machine running Linux, a multi-core processor and at least 8 GB of RAM.
- Successful run on my Windows 10 (:

Install Multipass

- Install Multipass:
 - *sudo snap install multipass --classic*
- You can run this command to see which versions are currently available:
 - *snap info multipass*
- For other Operating Systems:
 - <https://multipass.run/>
 - <https://github.com/canonical/multipass>

First steps to Multipass

- cloud-init + Multipass to customize an instance during launch
 - <https://ubuntu.com/blog/using-cloud-init-with-multipass>
- Find available images:
 - *multipass find*
- To see other options:
 - *multipass --help*

Launch and connect to your VM

- To launch your first OpenStack instance (VM) called “test” based on the Ubuntu image, run the following:
 - *multipass launch ubuntu --name myvm*
 - *multipass list* #Check out the running instances
 - *multipass shell myvm*
 - *multipass delete myvm*
 - *Multipass purge*

Thanks for your attention