# Setting up an edge cloud in four commands

Tytus Kurek, Product Manager

Ryan Beisner, Engineering Manager

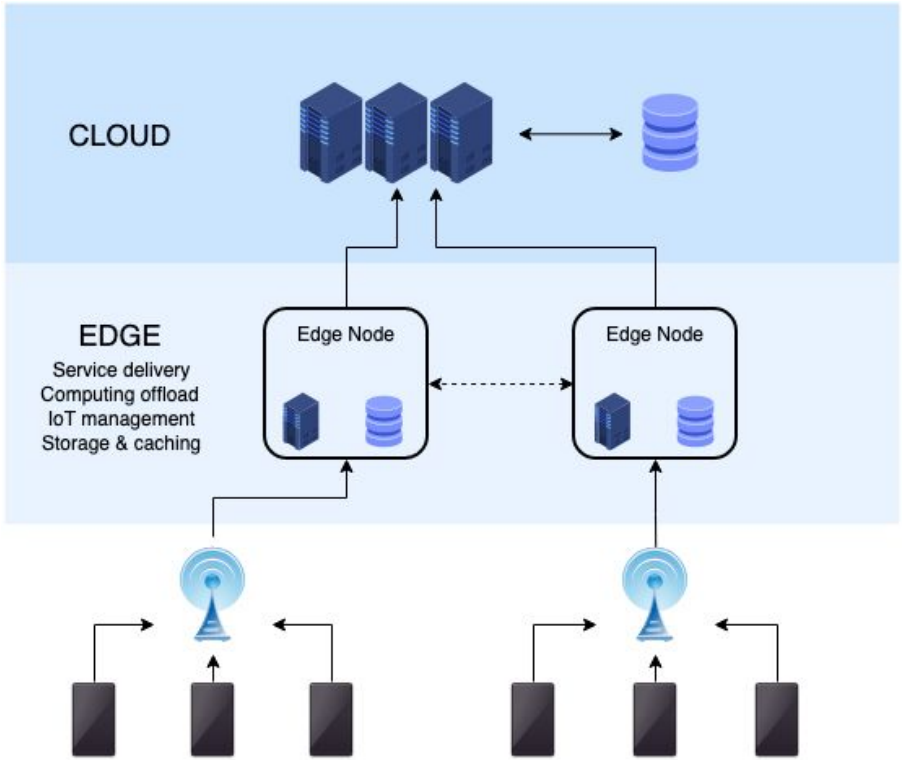
2019

CANONICAL ubuntu

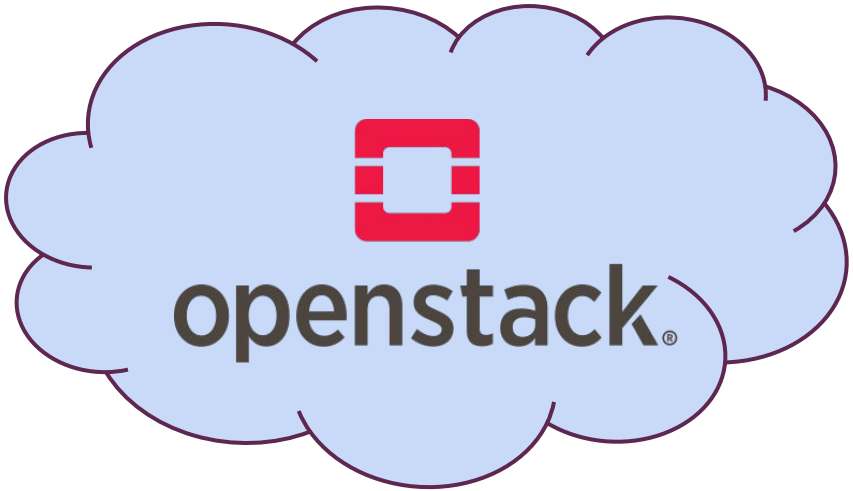
# Agenda

- Evolution of the edge computing paradigm
- Introduction to MicroStack
- MicroStack - use cases
- MicroStack - live demo
- Takeaways + Q&A

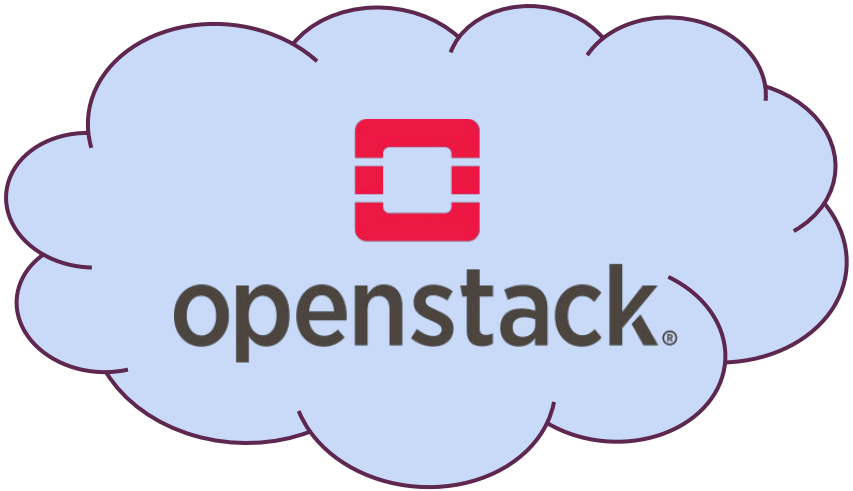
# Evolution of the edge computing paradigm



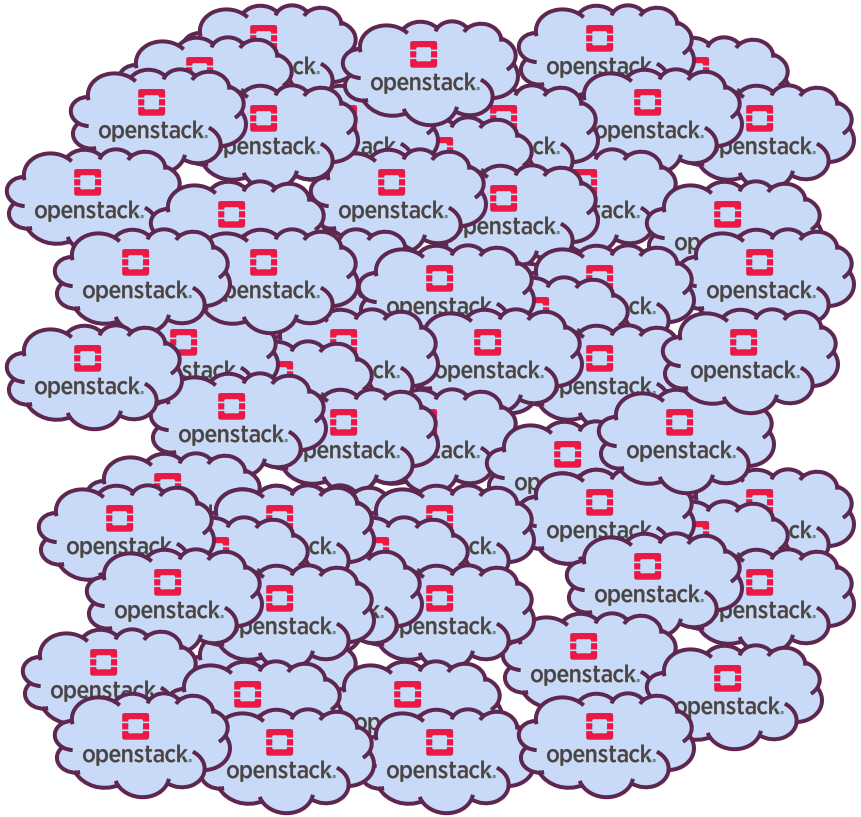
# Challenges in the field



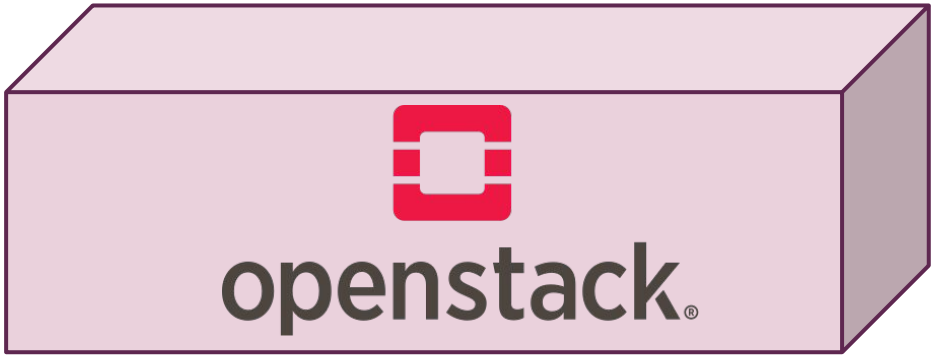
# Challenges in the field




vs



# Ladies and gentlemen, meet MicroStack!





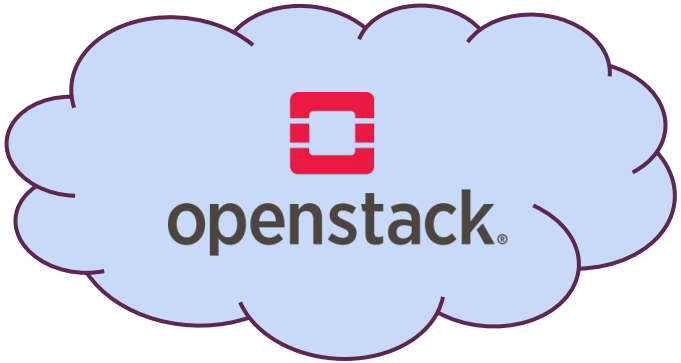
https://snapcraft.io/microstack

# Nice to meet you MicroStack … but what is a snap?!

**Snap** - a universal Linux package:

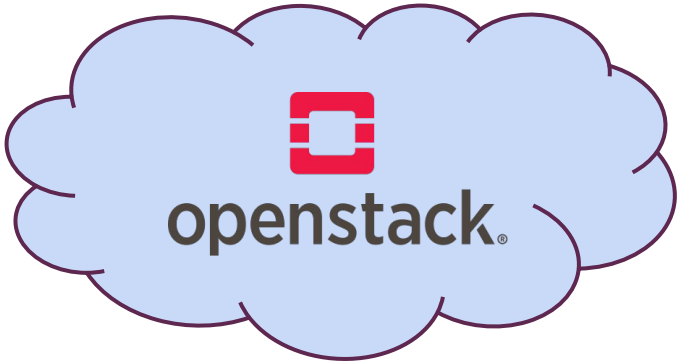
- works on 42 Linux distributions
- application packaged together with its dependencies
- can be installed, upgraded and removed with a single command
- extremely secure due to their embedded nature

# Use cases

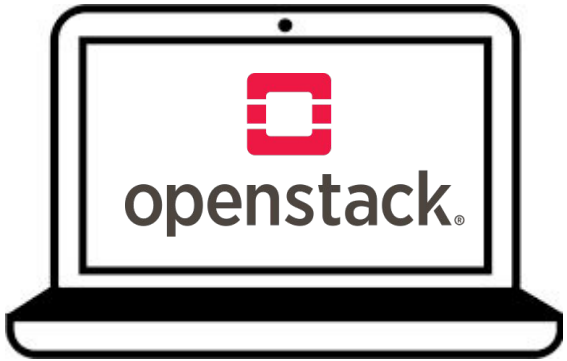



**Edge Cloud**

# Use cases

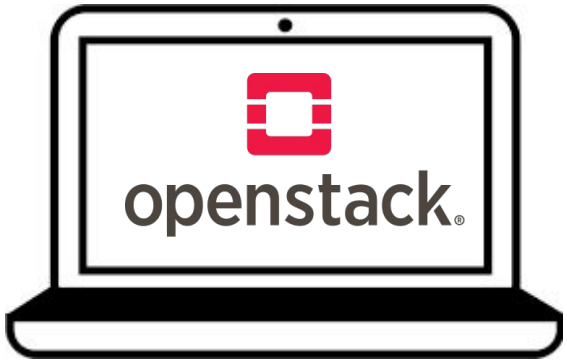



**Edge Cloud**

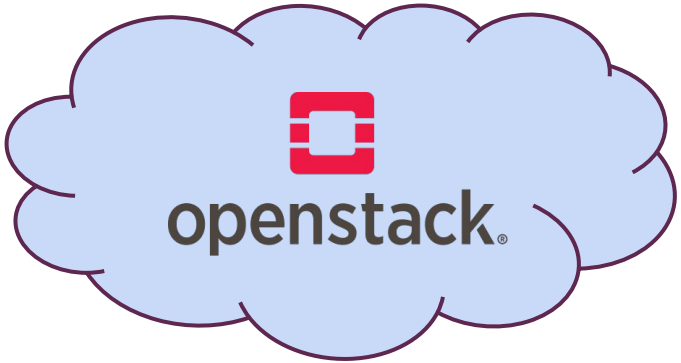



**Testing**

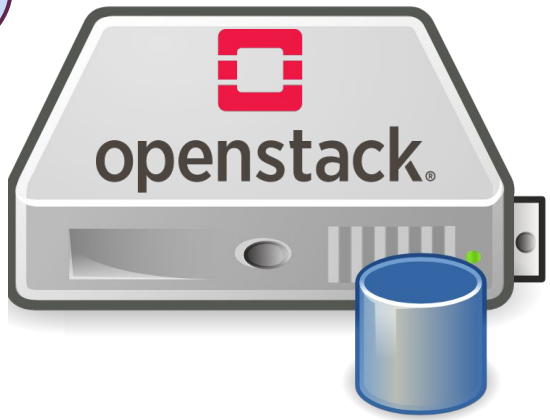
# Use cases




**Testing**




**Edge Cloud**




**Development**

# OpenStack cluster in four commands (or two?)

- Control node:

  **`sudo snap install --classic --channel edge/clustering microstack`**

  **`sudo microstack.init`**

  Answer the questions as follows:

  Setup clustering: yes

  Role: control

  Password: <some password>

  Control IP: accept the default

# OpenStack cluster in four commands (or two?) #2

- Compute node:

  **`sudo snap install --classic --channel edge/clustering microstack`**

  **`sudo microstack.init`**

  Answer the questions as follows:

  Setup cluster: yes

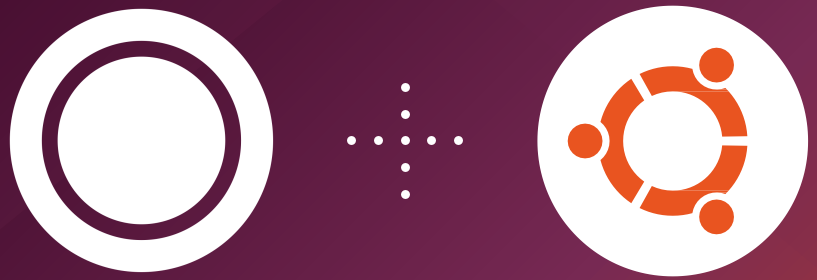
  Role: compute

  Password: <the password>

  Control ip: <the IP address of the control node>

  Compute ip: accept the default

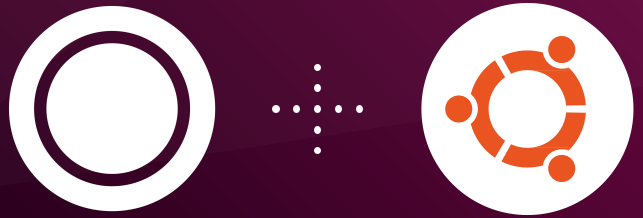
# Time for the demo!



# Takeaways

- Deploying the edge infrastructure is challenging due to the huge number of independent cloud environments
- Deploying an individual cloud environment takes time - **MicroStack is a seamless solution to this problem**
- MicroStack is suitable not only for the edge, but also for testing and development

# Thank you. Questions?



https://microstack.run