



redhat.

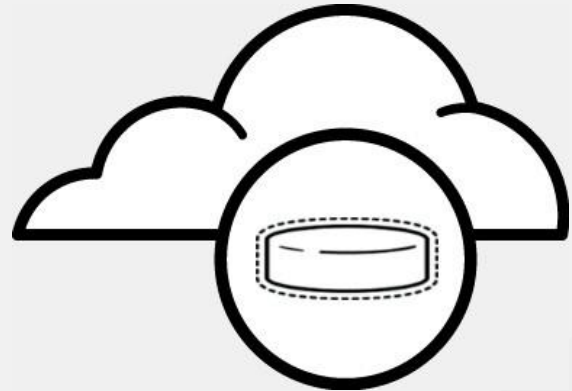
# TESTING with INEVITABLE DEPENDENCIES

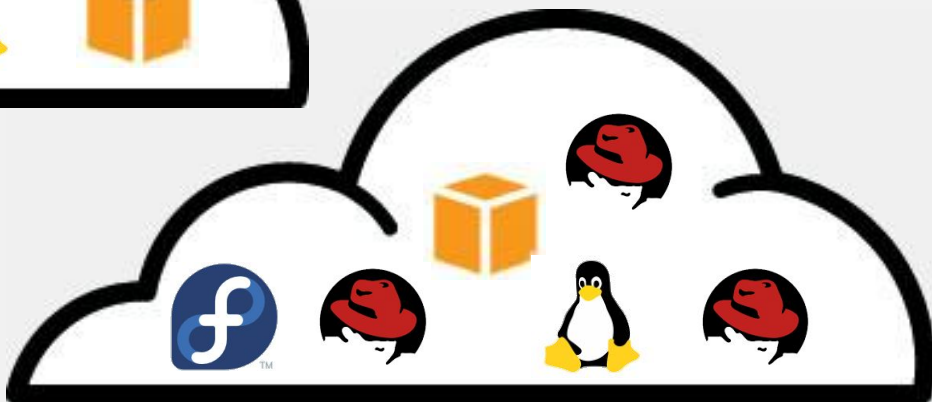
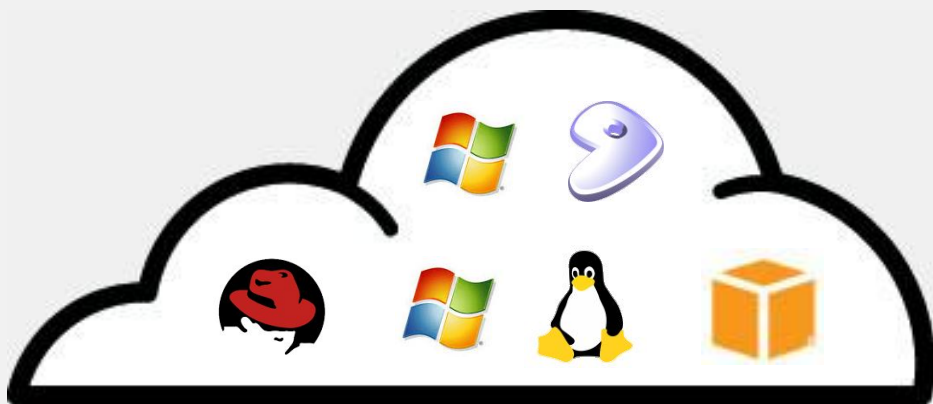
Testing images in the Cloud

PyCon Israel, May 3, 2016

Irina Gulina  
Platform QE

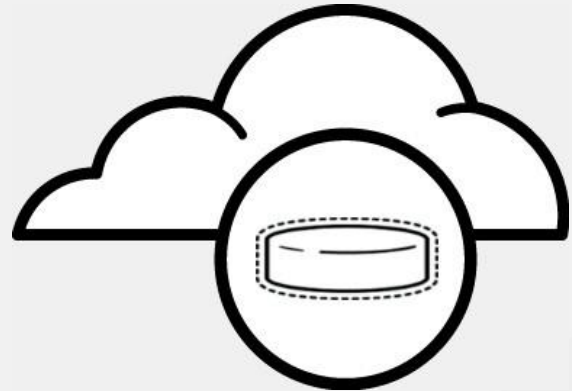
What is an **IMAGE** ?  
What is a **Cloud INSTANCE** ?





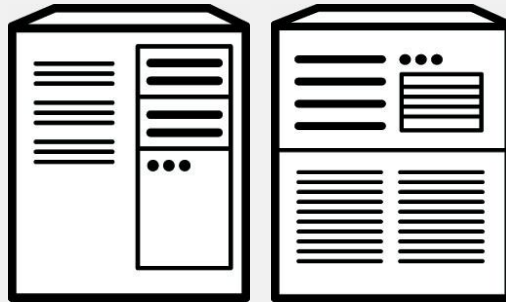
# TASK

## Test Images in the Cloud

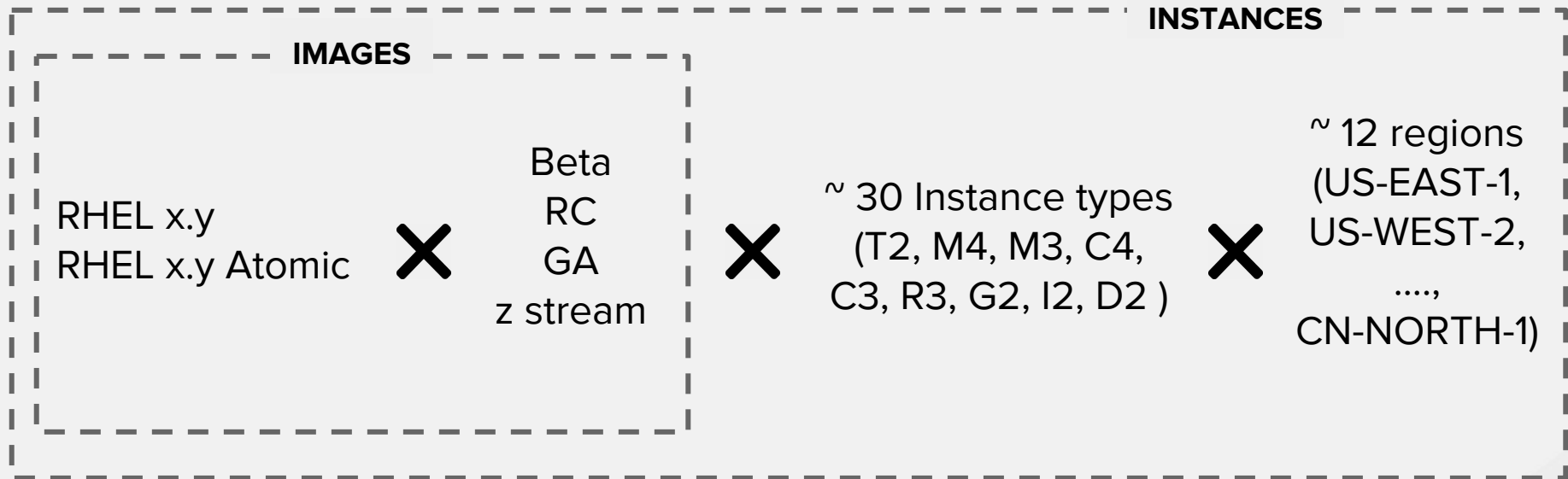


# CONDITIONS

Instance type, regions, network setup, ...



# HOW MANY IMAGES? INSTANCES? HOW OFTEN?



# TEST CASES

Many



# PROBLEM #1

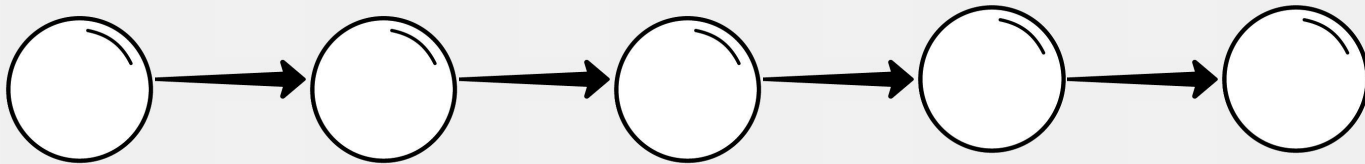
## It's Pricey





## PROBLEM #2

Test cases are dependent



# ADDING STORAGE

Partitioning



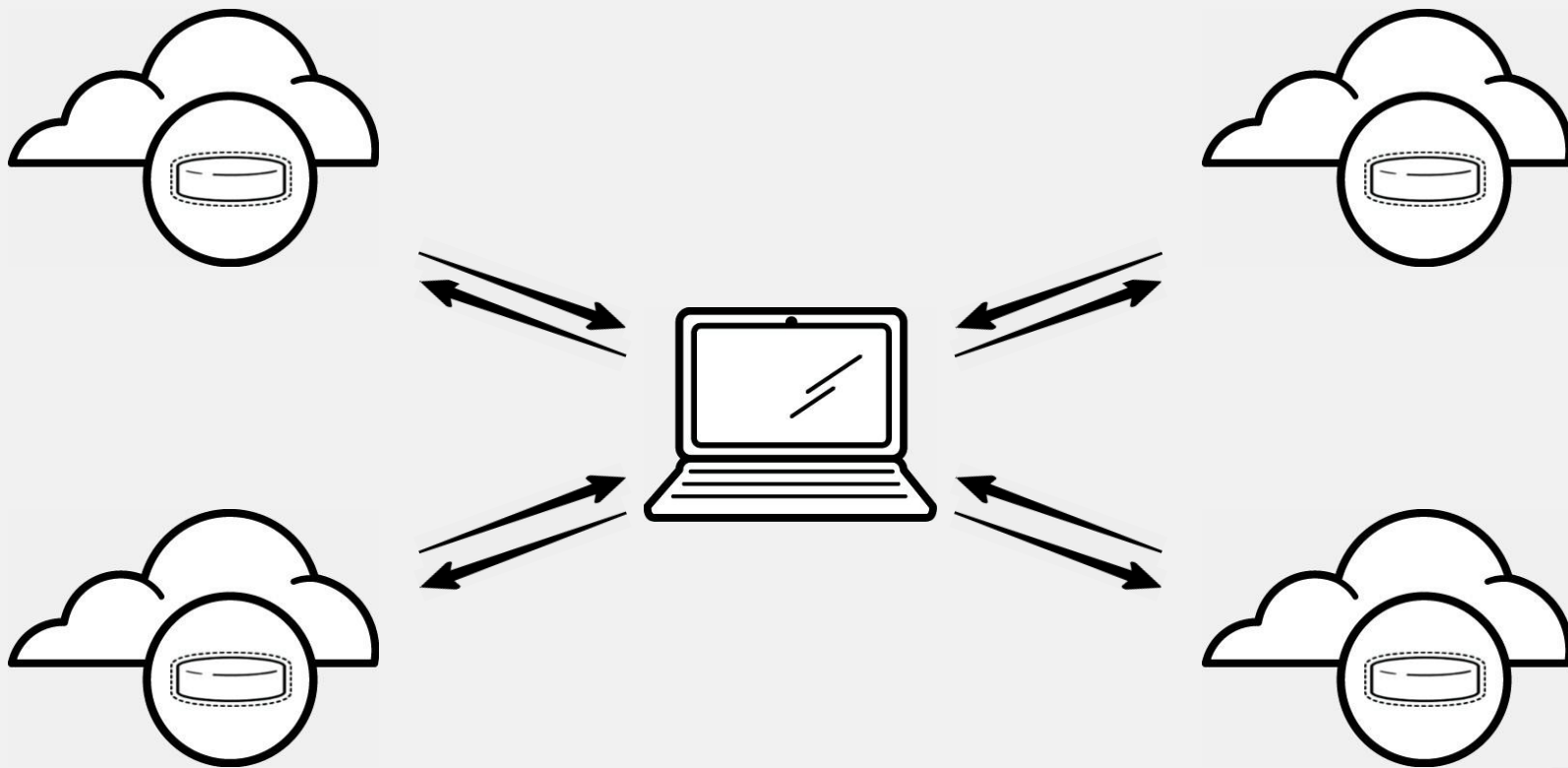
Formatting



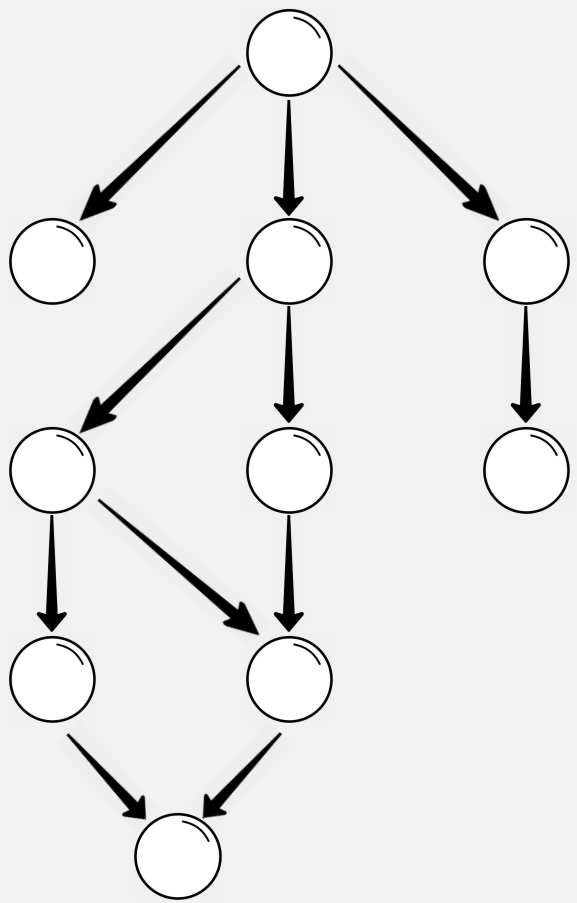
Mounting

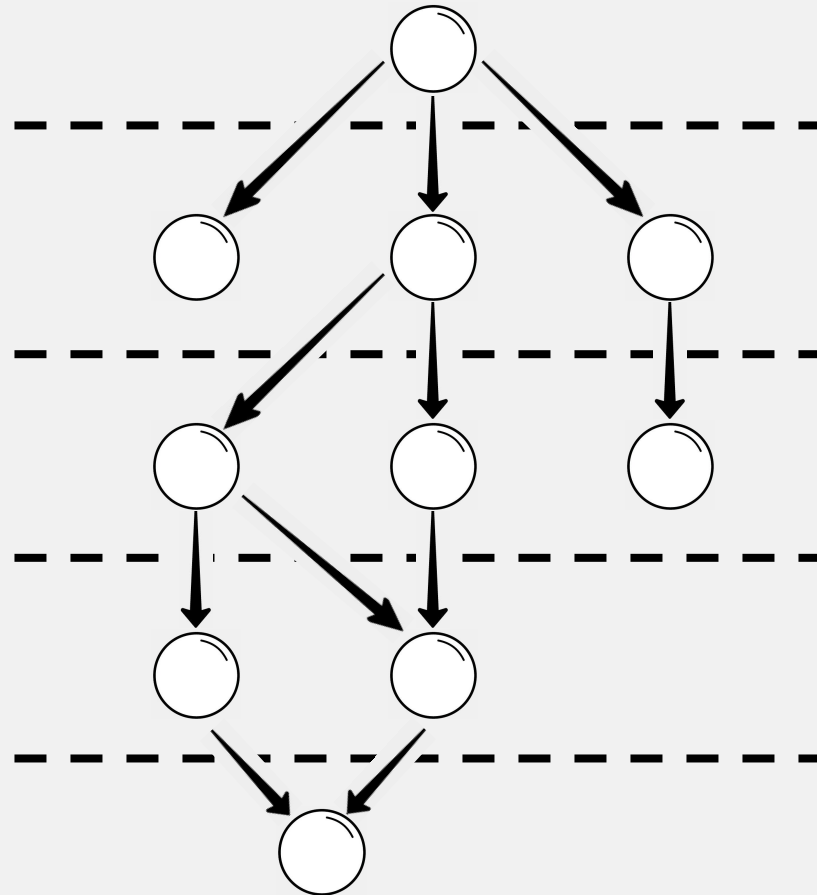
# **SOLUTION**

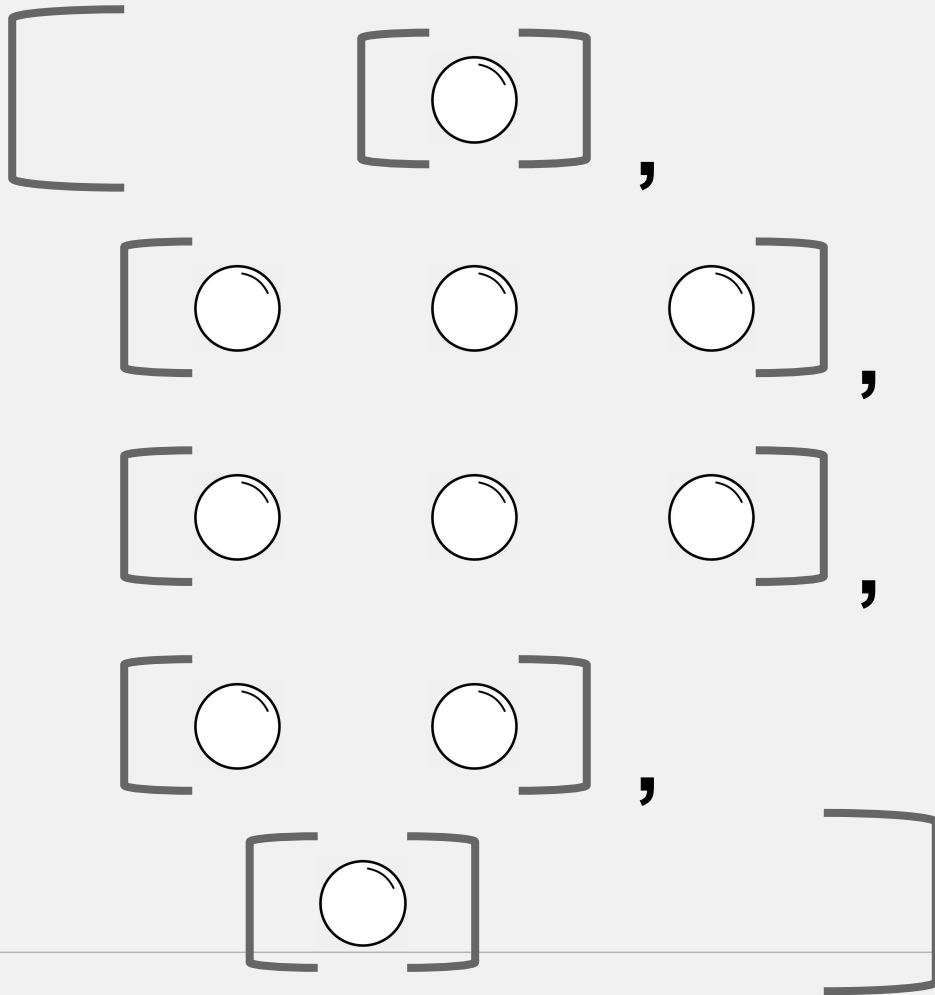
Run Tests with Dependencies



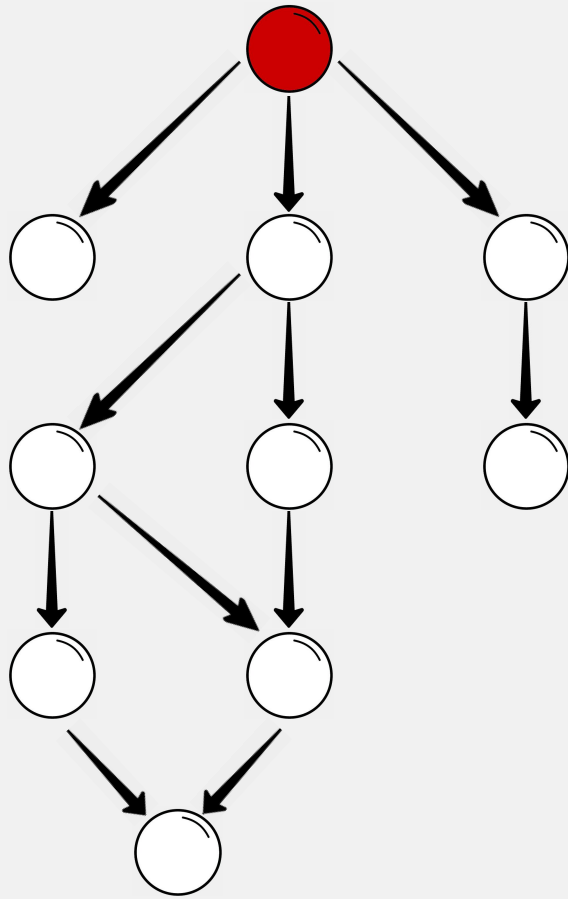
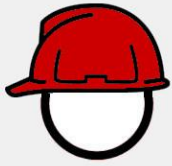
**HOW**  
To run test cases on **one** instance?

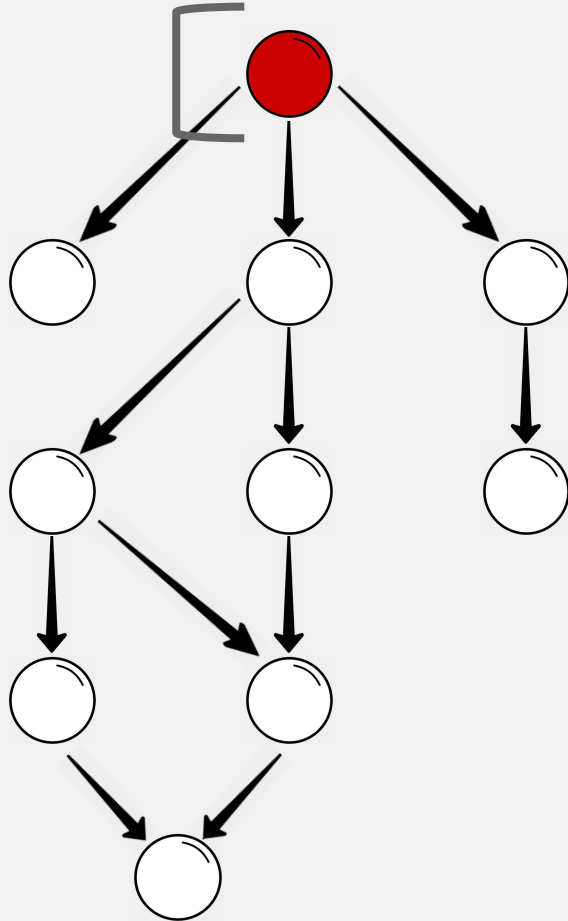
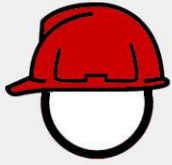


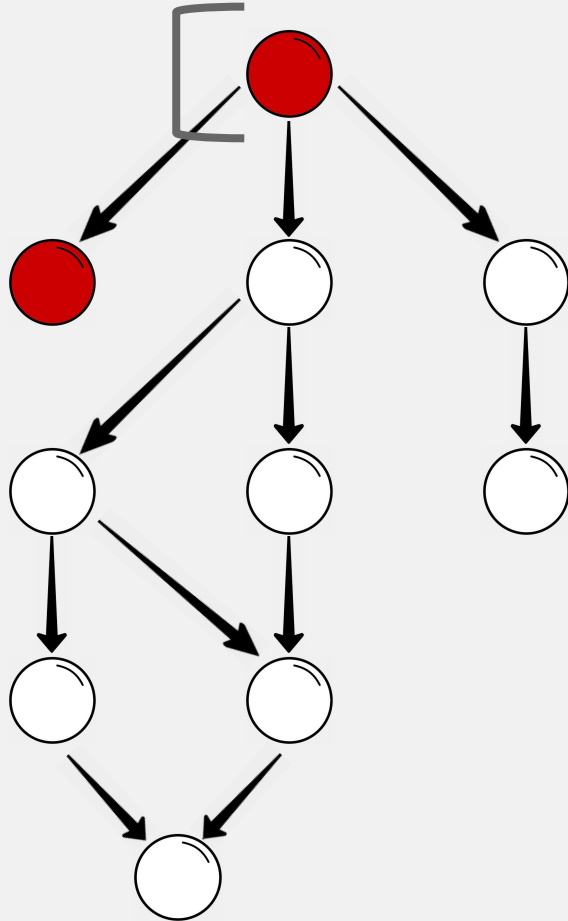
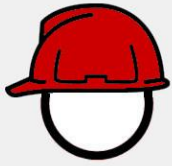


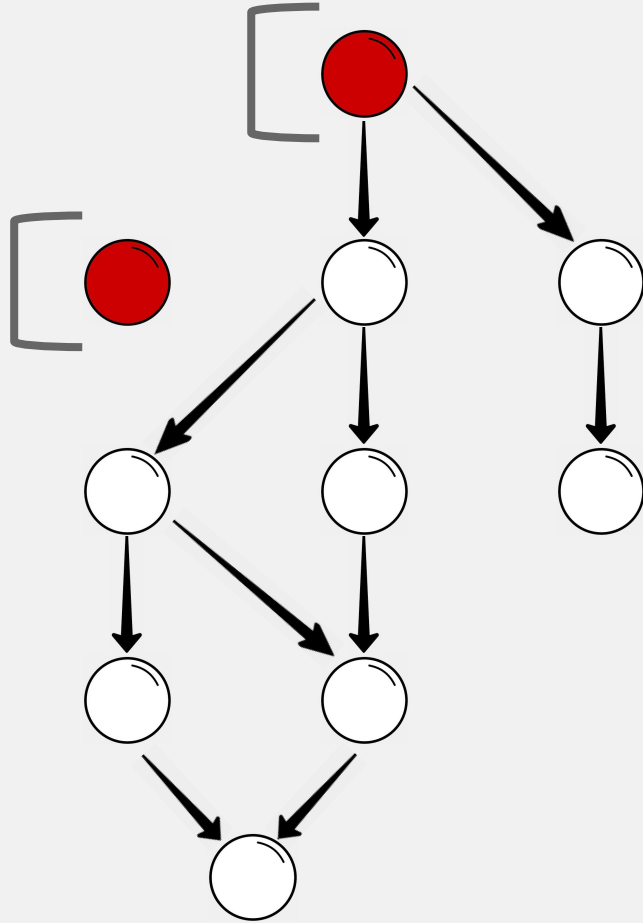
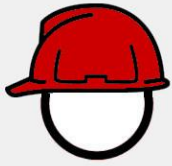


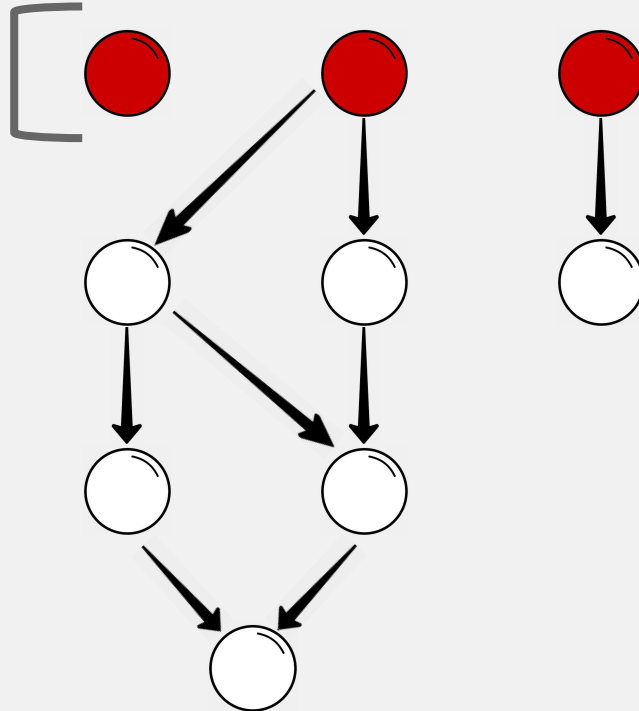
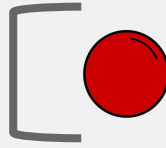
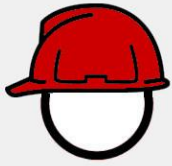


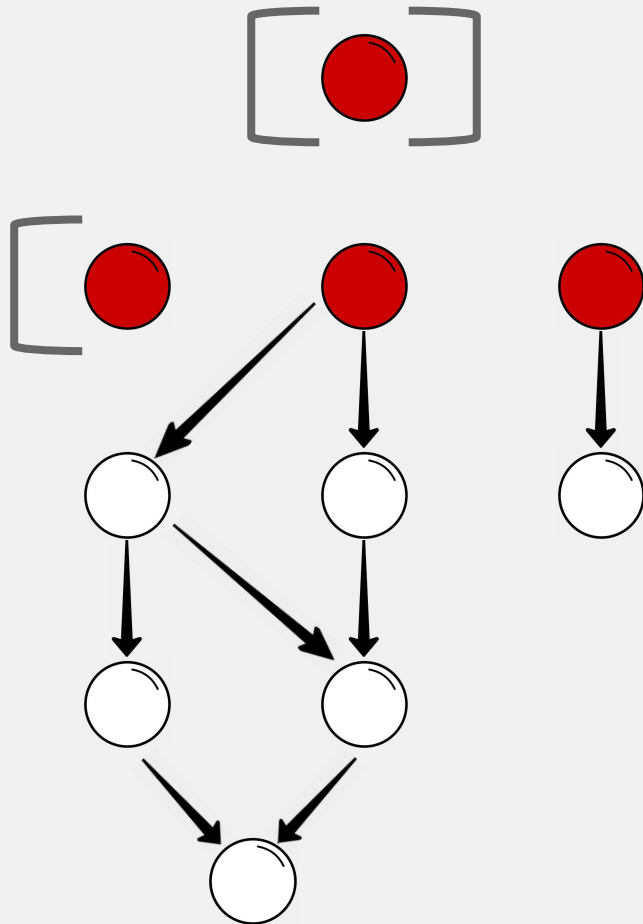
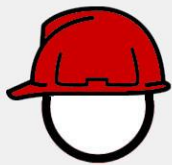


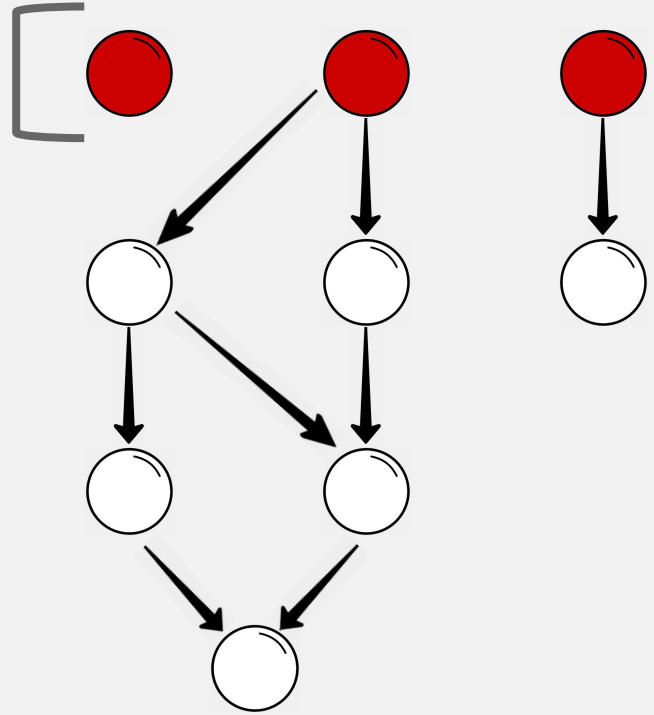
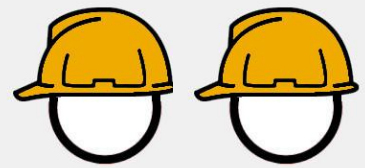
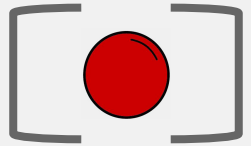
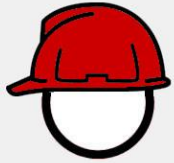


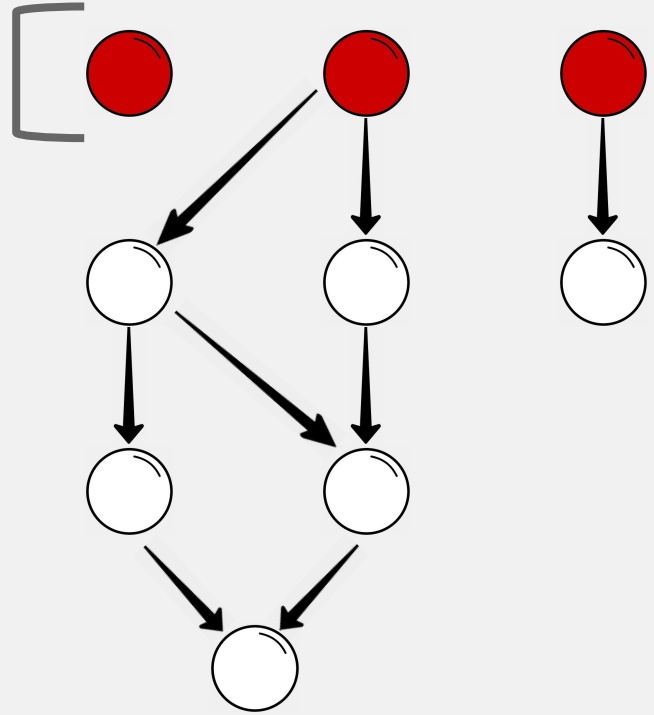
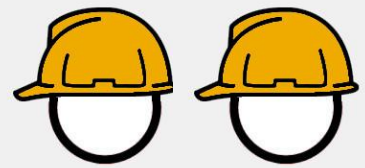
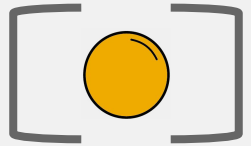
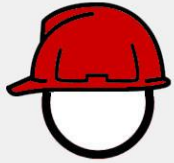




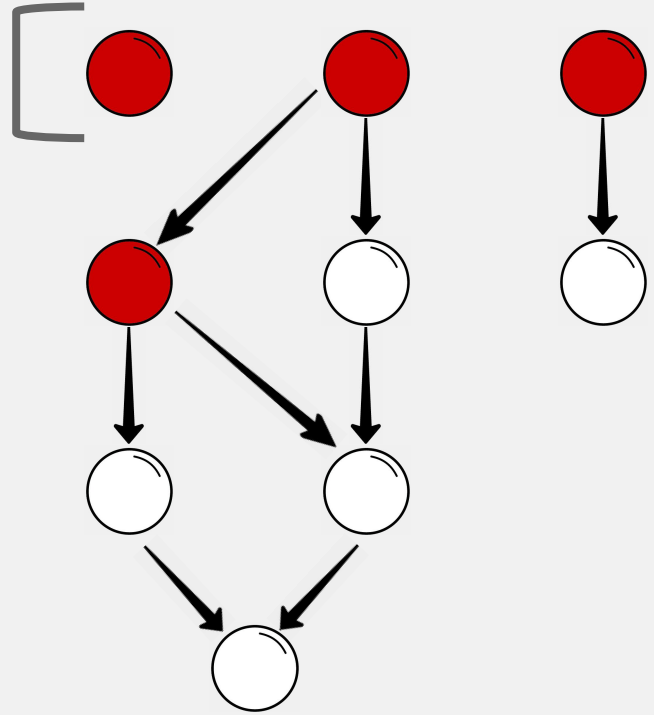
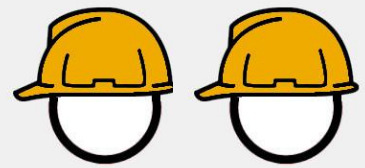
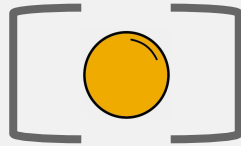
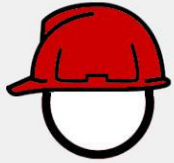


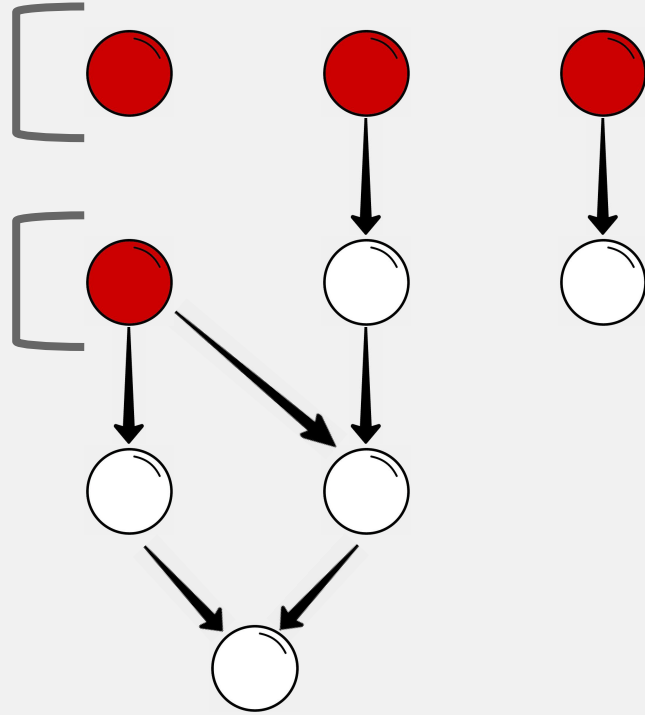
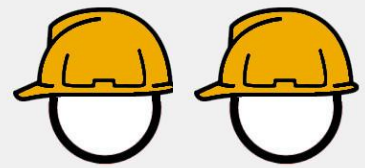
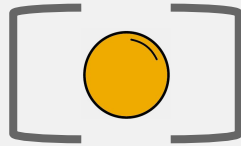
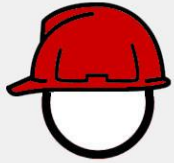


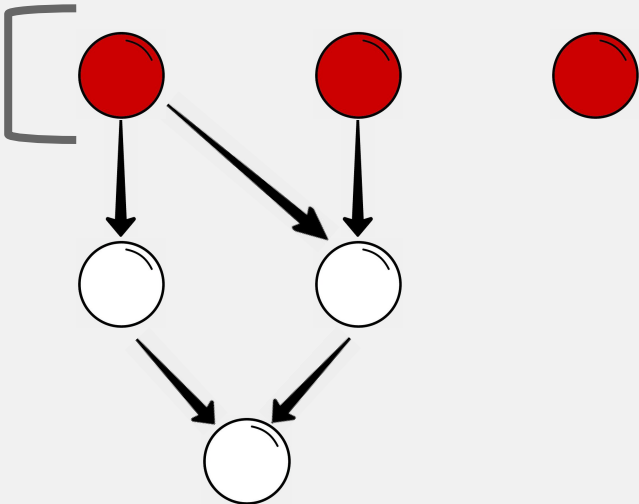
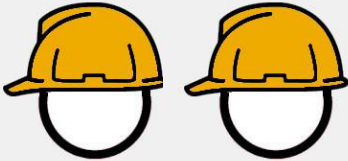
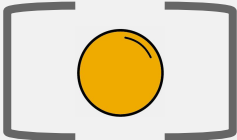


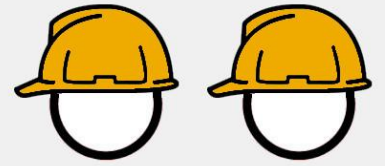
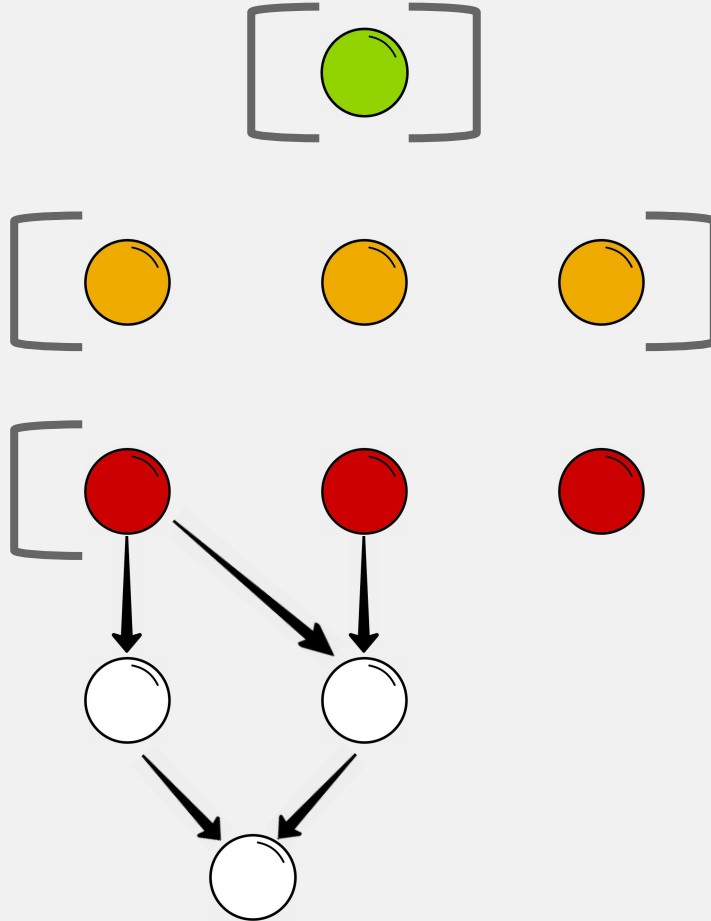
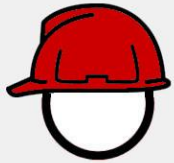


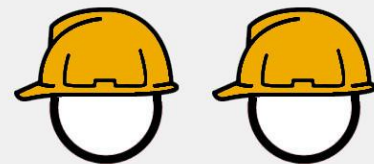
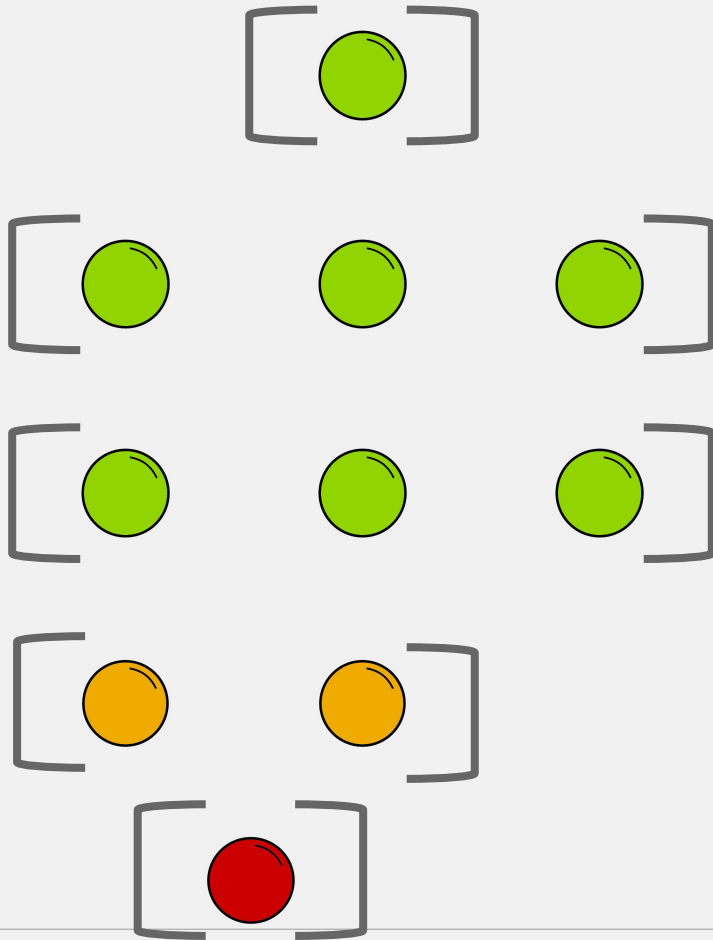


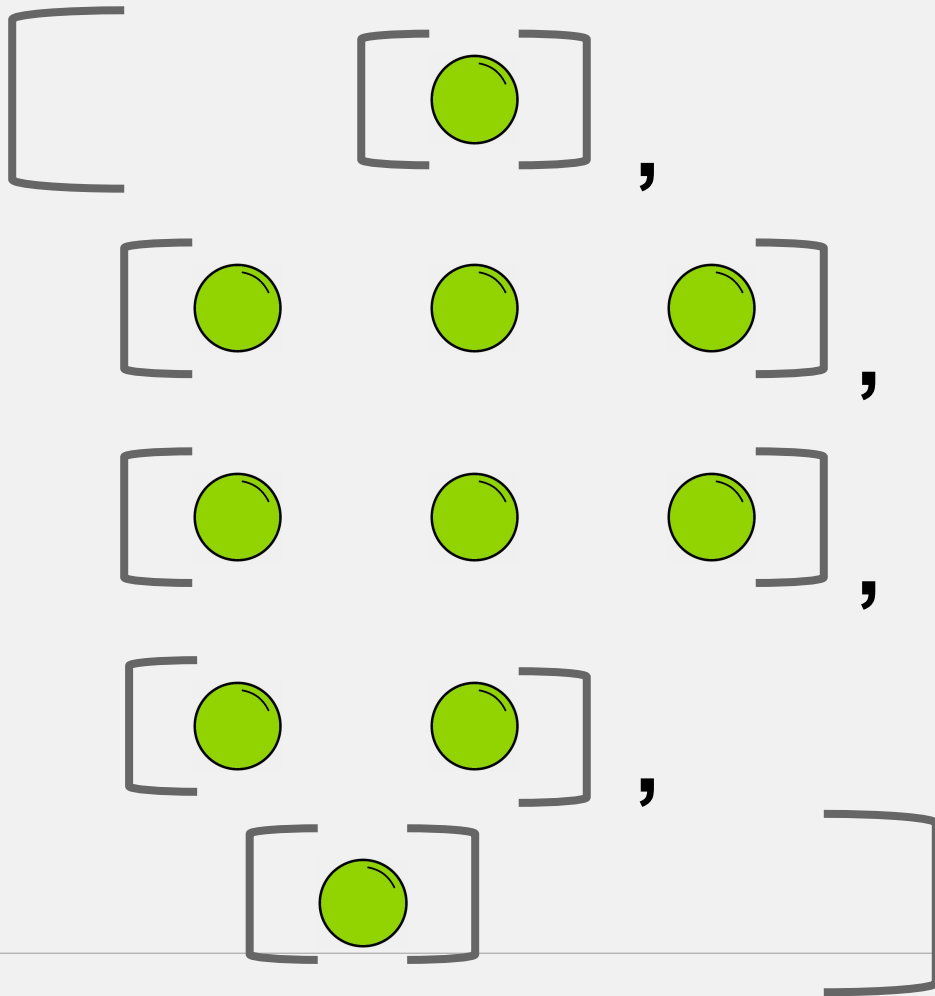




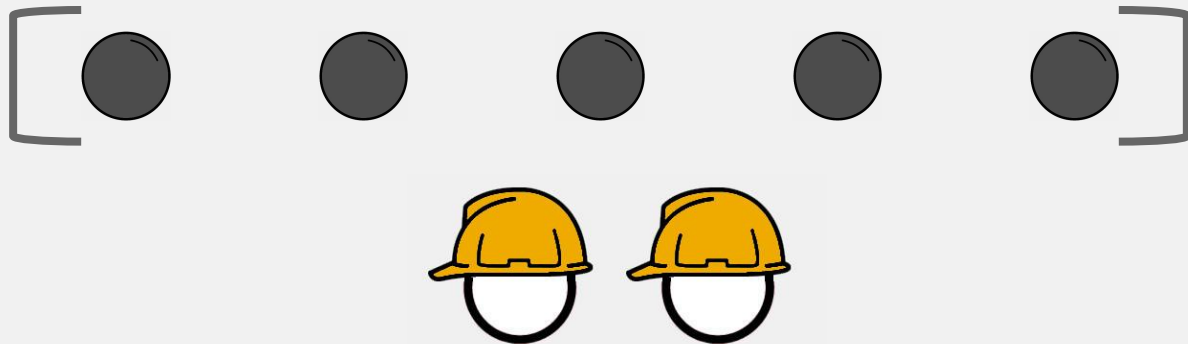




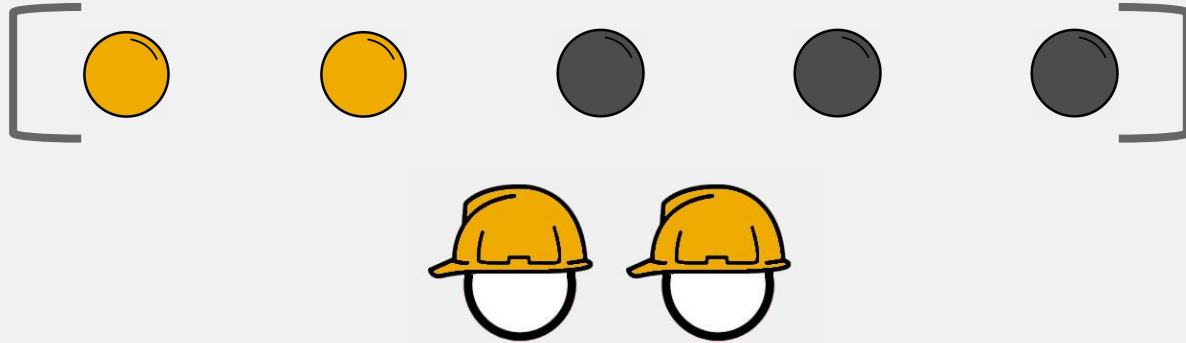




**--parallel-tests**

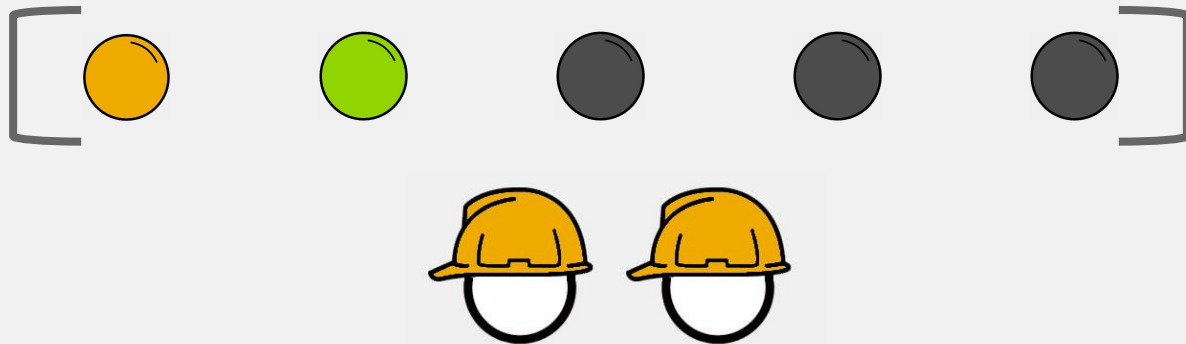


# --parallel-tests

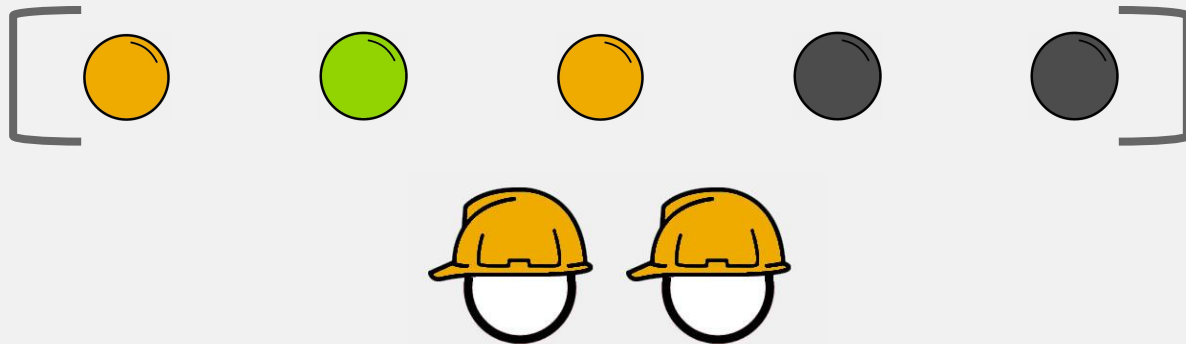




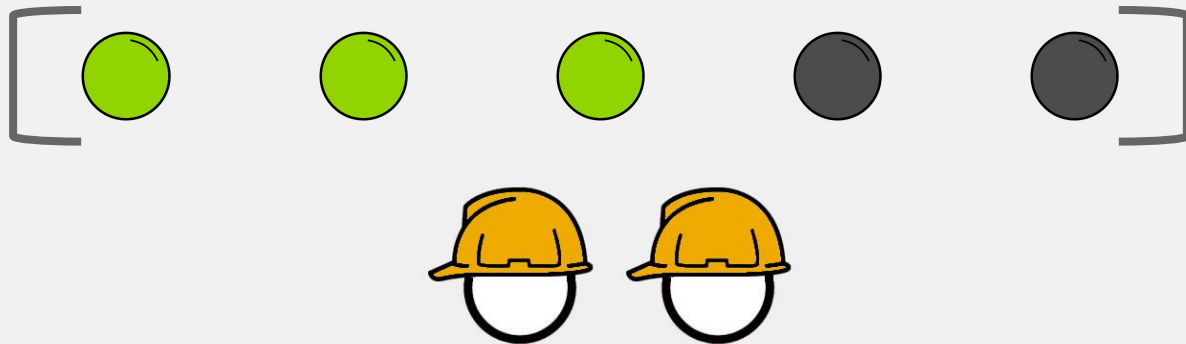
# --parallel-tests



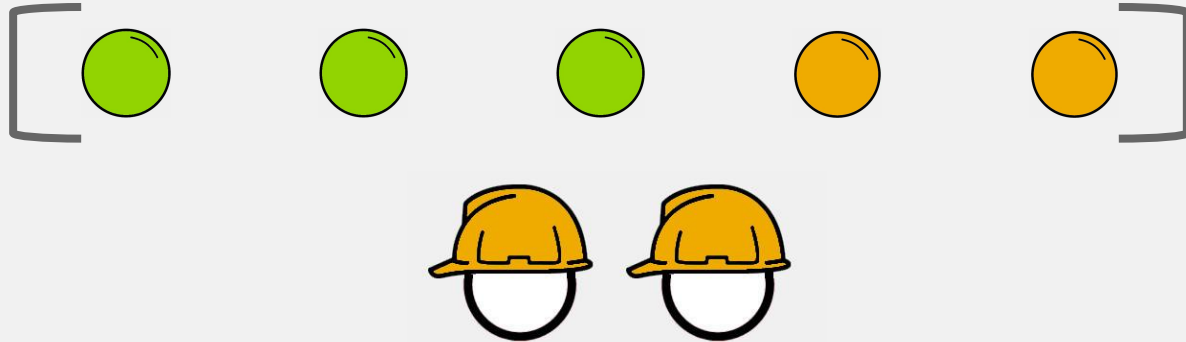
# --parallel-tests



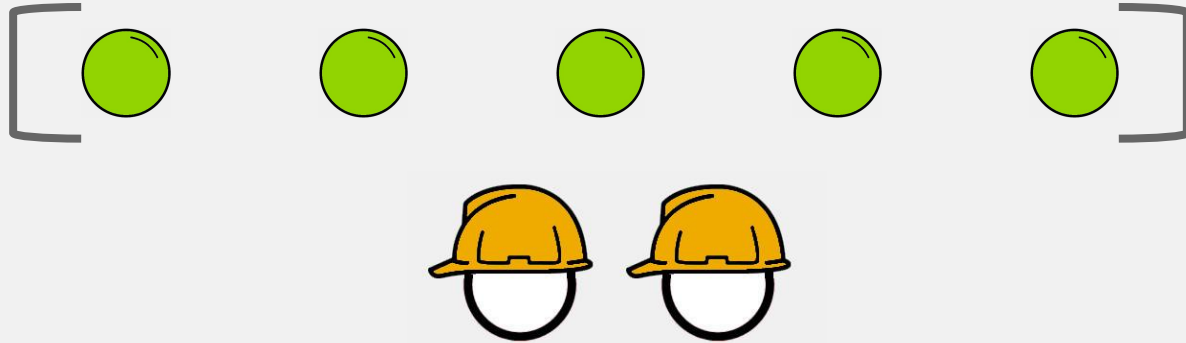
# --parallel-tests



# --parallel-tests

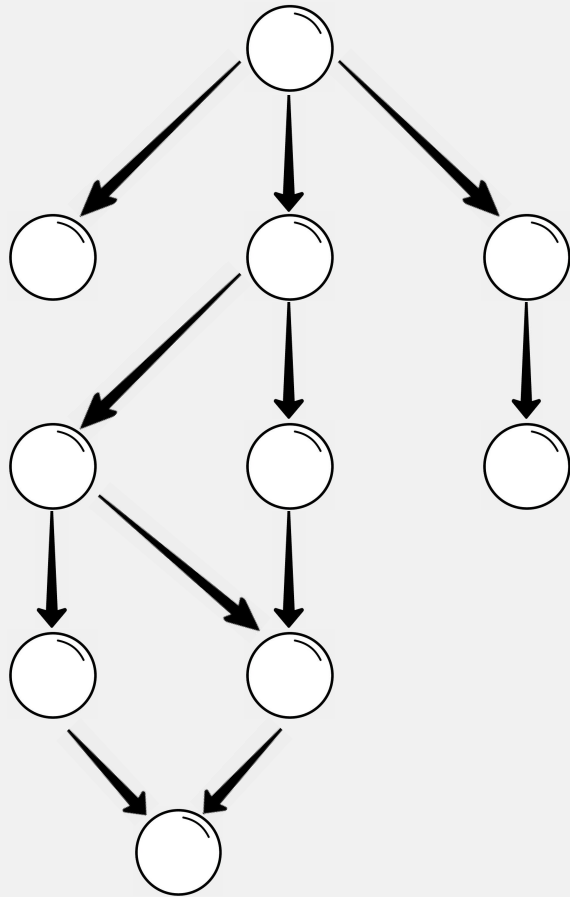


# --parallel-tests

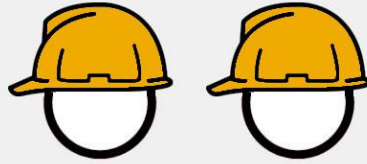


# HOW

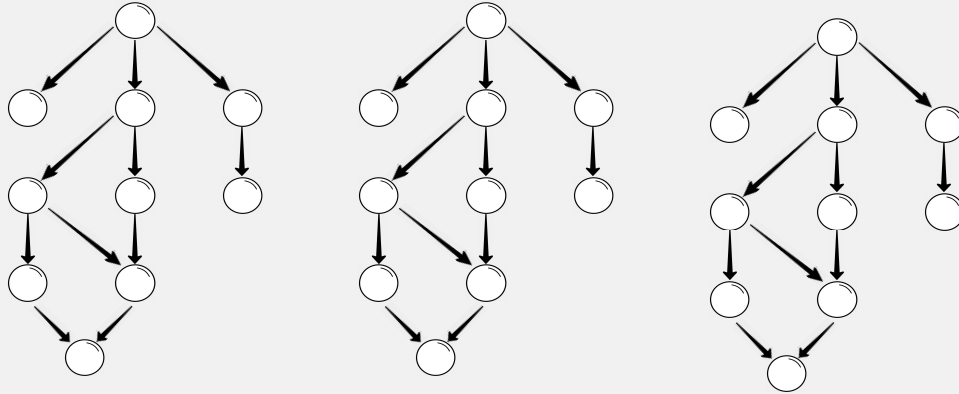
To run test cases on **many** instances?



x **N instances**



## --parallel-instances





# IMPLEMENTATION

Python 2

boto

paramiko

python-rpyc

gevent

aaargh

PyYAML

# SOURCE CODE

<https://github.com/RedHatQE/dva/>



# THANK YOU

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