

# Lab 1

1. My processor does not support Intel/AMD virtualisation technology, I am using a mac which is using the Apple M1 chip.
2. Pros:
  1. It allows users to gain more power than they can get on their local machine.
  2. It is cheaper to run as it means that you don't need to buy your own servers etc.
  3. It also allows for you to get as much as you need so you don't have too little or too much.Cons:
  4. It depends on your internet so if you have poor internet it may perform slowly / poorly.
  5. It can go down at any time and you have no control over it.
  6. Storing data on a third party server can cause security risks if there is a breach with the server provider.
3. The main purpose of a Hypervisor is to allow multiple virtual machines to run on a single machine and split resources between them.
4. A virtual machine is software that emulates a computer and its functionality.
5. It is great for software testing as if anything goes wrong there isn't any repercussions. They are also great for allowing users to try out different operating systems alongside their current one.
6. Use Cases:
  1. Software testing
  2. OS testing
  3. Cloud hosting
  4. Server Visualisation
  5. Storing system backups
7. B
8. C
9. C
10. It is great for testing in a isolated environment where there aren't any repercussions if something goes wrong and it is great for storing system backups in case anything goes wrong on the main server.