

Introduction

Earlier / or even today we have capacity planning.

So in this process you go and buy your infrastructure.

But as the scale increases, you will have to add / buy more infra. So horizontal scaling is challenging / expensive.

And in such case you would want to buy a single big infra, and let multiple users use it.

This will have contention

→ isolate resource usage as much as possible

Usecase

closely related to cloud as well,

1. Do not need upfront setup cost, maintenance
2. OS independent
3. Provisioning is very flexible

disadvantage

1. Containers are slow
2. Firewall issue
3. for simple apps it is not advisable; it is an overhead.

