

Experimental Cloud using Commodity Hardware

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Experimental Cloud using Commodity Hardware

The objective of this project is to create an experimental cloud by repurposing commodity hardware. The cloud we create would be made available to students as virtual desktops which may be used to host web services which can vary from simple static page to complex web applications.

Discussed

- Cloud
- Cloud Services
- Pros & Cons
- Metal-as-a-Service: MaaS

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Bare metal cloud

Bare metal cloud is an environment in which physical, dedicated servers can be provisioned to customers with cloud-like ease and speed.

Bare metal cloud customers are given access to the entire processing power of individual servers, as well as any storage, networking or other services they require.

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MAAS in VENV

The problem statement is to repurpose the commodity hardware to create an experimental cloud.

At present we don't have access to those hardwares hence we are conducting our experiments in virtual environment.

MAAS in VENV

Successfully deployed a MAAS based cloud in virtual environment.

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Conclusion

Future Work

- Moving to physical hardware.

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