



Data Centers

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Data Centers are group of high-end server grade machines networked together and hosted aspart of an big building or group of buildings which are geographically separated.

These data centers by themself host group of computers with all the infrastructure services like

- 1. high-end server grade computers
- 2. high-speed leased internet lines and backup lines
- 3. 24X7 power backup
- 4. Networking
- 5. man power resources like administration, networking, security, support team etc

These datacenters provides dedicated infrastructure services to the customers/enterprise organizations so that they can host their applications within their machines

- 1. The machines that are provided are bare-metal machines that are not installed with any operating system or software packages, the enduser/ customers has to install the softwares or os of their choice in running their applications
- 2. always the customers can request the infrastructure of their choice by choosing from the available shapes that the data center offers
- 3. the infrastructure is provided on leased basis
- 4. we can request for a group/cluster of computers with an private network inter-connecting them, so that organization can host/scale their applications on that infrastructure

There are lot of advantages with data centers:

- 1. no huge investment in setting up the infra/computing services in running the applications, always organizations can acquire infra/computing services on leased basis
- 2. the time required for having the infra to run the application is very less, because upon requesting the data center for infrastructure, the turn-around time in providing the resources will be very less
- 3. since the resources are dedicated, it is highly secured
- 4. the customers/endusers can install their own softwares/operating systems leaving the flexibility of running the applications of any technology stack
- 5. since the total control of the infrastructure lies with the enduser, he can better plan the release management
- 6. patching, upgrades are totally lies in the control of the enduser/customer, so he can choose the better window in uptaking and migrating
- 7. the datacenters takes care of backup and restoration/recovery incase of crash

dis-advantages:-

- 1. fixed shapes machines are available  
16gb , 8 cpus  
32gb, 12 cpus  
48gb