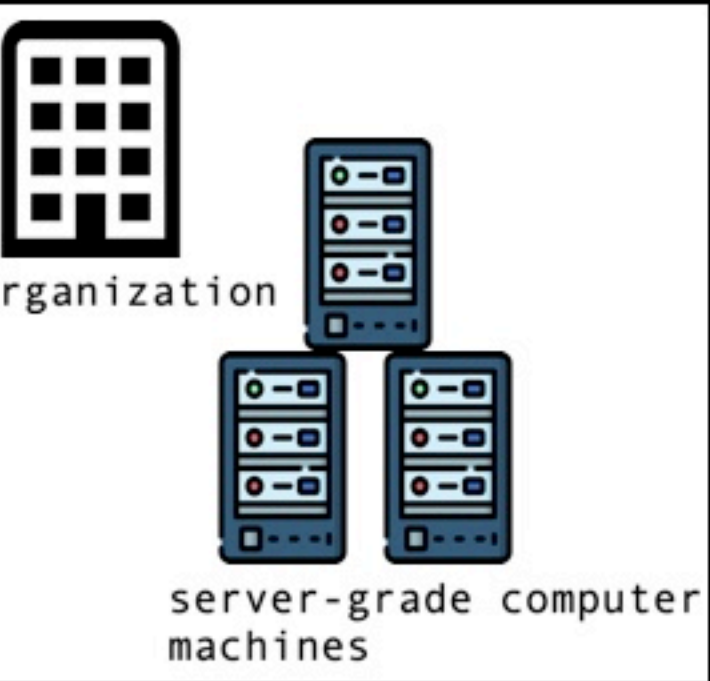


How does the organization has to host the distributed web application, to offer their business services to the customers around the world?

#1 In-House hosting



In-house hosting means, the business organization by themself procure all the infrastructure resources that are required for running/hosting the software application to make it accessible to the customers around the world. As part of it they need to

1. Infrastructure
  - 1.1 Server-grade computers with huge computing capacity like cpu, ram and storage etc inorder to run the software application
  - 1.2 We need physical space/room in which we can place these infra resources
  - 1.3 The physical space should be air-conditioned to ensure the hardware resources will not be heatedup and burnt over the time while they are running.
  - 1.4 High-speed network interconnect the computers
  - 1.5 High-speed Network devices like Router, firewalls, switches and security hardware in inter-connecting these computers for running the application
  - 1.6 High-speed dedicated leased internet line to make the applications running on these hardwares to be accessible to the people around the world
  - 1.7 we need an backup line to ensure if the primary internet connection fails we have always an alternate line to avoid down-time of the application
  - 1.8 24/7 power backup is needed to ensure in case of power failures, the infra is up and running
- 
2. Software/Maintainance requirements
  - 2.1 The business organization has to procure licensed operating system and other softwares that are required for running the application like
    1. operating system software
    2. database server software
    3. webserver / application server for running application
  - 2.2 The operating system and software libraries has to be installed and configured on the server-grade machines which requires lot of time
  - 2.3 Need an administration team, that takes care of setting up the hardware resources, installing the operating system and required software packages to make the application run on those computers
  - 2.4 we need network administration team, that takes care of setting up the network and ensuring there are no security breach or loop holes in stealing/accessing the applications by the hackers or attackers over the network
  - 2.5 need application support team, that takes care of monitoring the application 24/7 and incase of crash, the application should be recovered quickly to ensure availability of it.
  - 2.6 the team should perform regular maintainance activities and apply security patches, upgrades in keeping the application running.