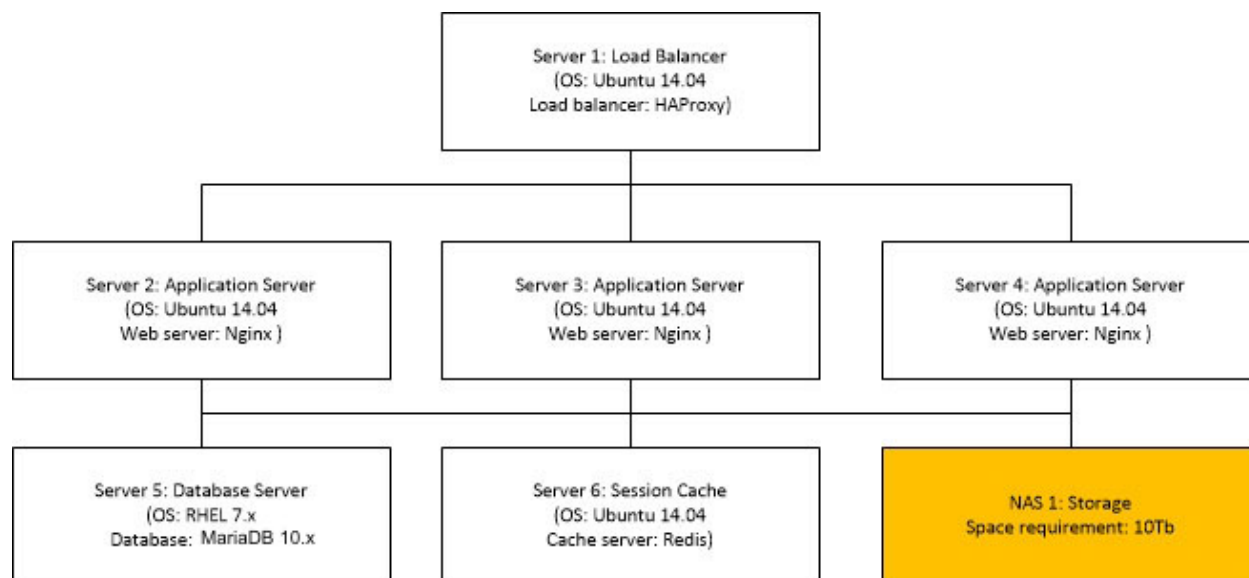


# Teachers Portal Deployment Plan v1.0

## 1. Deployment diagram



SL	Server Description
1	Load Balancer, will distribute incoming connection among the available web nodes
2, 3, 4	Application Server, will handle the incoming web requests
5	DB Server, will store the primary data
6	Session Cache Server, will store the logged in users' session in memory.

## 2. Servers

SL	Server Class *	CPU	RAM	HDD	OS
1	DELL R320 or equivalent	2-4 Core Xeon	4GB	1 x 100GB SAS	Ubuntu 14.04
2, 3, 4	DELL R730 or equivalent	4-6 Core Xeon	16GB	1 x 100GB SAS	Ubuntu 14.04
5	DELL R730 or equivalent	4-6 Core Xeon	32GB	2 x 1TB SSD SAS**	RHEL 7.x
6	DELL R320 or equivalent	2-4 Core Xeon	8GB	1 x 100GB SAS	Ubuntu 14.04

\* Only for physical hardware, please choose your preferred server class for virtualization

\*\* Hardware RAID controller with Raid level 5, 50 with hot spare

## 3. Bandwidth

As per projection, current bandwidth usage for June 2016 (20 days) is as follows:

Incoming: **64.3 GB**

Outgoing: **1594 GB**