Google datacenters :

Google data centers are the large data center facilities Google uses to provide their services, which combine large drives, computer nodes organized in aisles of racks, internal and external networking, environmental controls (mainly cooling and humidification control), and operations software (especially as concerns load balancing and fault tolerance).

Locations of datacenters:

- North America- 14
- South America- 1
- Europe -6
- Asia -2

Hardware :

- Sun Microsystems Ultra II with dual 200 MHz processors, and 256 MB of RAM. This was the main machine for the original Backrub system.
- 2 × 300 MHz dual Pentium II servers donated by Intel, they included 512 MB of RAM and 10 × 9 GB hard drives between the two. It was on these that the main search ran.
- SDD disk expansion box with another 8 × 9 GB hard disk drives donated by IBM.
- Homemade disk box which contained 10 × 9 GB SCSI hard disk drives.

Softwares:

Software stack used in Google servers is developed by google in cpp,java,python

Storage systems:

- Google file system and Colossus
- Bigtable
- Spanner
- Google F1

Modular datacenter