

Littlefield Grid Infrastructure

As of 09/15/2015 - Littlefield Systems, LLC

Basics:

Littlefield Grid consists of 5 region servers, 1 Grid / Asset server, 1 MySQL Database server, 1 external backup server.

Data Flow:

Littlefield Grid's servers communicate between themselves via an internal GB fiber private network at 1000mbps. Communication to the outside world is via a GB fiber network connected to the Internet at 1000mbps.

Users connect via their local viewer via the internet via 1000mbps network interface to the region/grid servers. The Region/Grid/Asset/Database servers communicate with each other via the internal 1000mbps backbone network for faster throughput and efficiency.

Hardware:

Region Servers (qty 6):

Intel Xeon E3-1230 V3

32GB DDR3

500GB ESATA

128GB SSD

1000mbps Ethernet

Grid Server (qty 1):

Dual Intel Xeon 5540

36GB DDR3

RAID 5

1TB ESATA x 5

1000mbps Ethernet

(cont'd)

MySQL Server (qty 1):
Intel Xeon E3-1230 V3
16GB DDR3
600GB 10000 RPM ESATA
1000mbps Ethernet

Backup Server (remote):
Intel Xeon E3-1230 V3
8GB DDR3
500GB SATA
1000mbps Ethernet

System Topology:

