

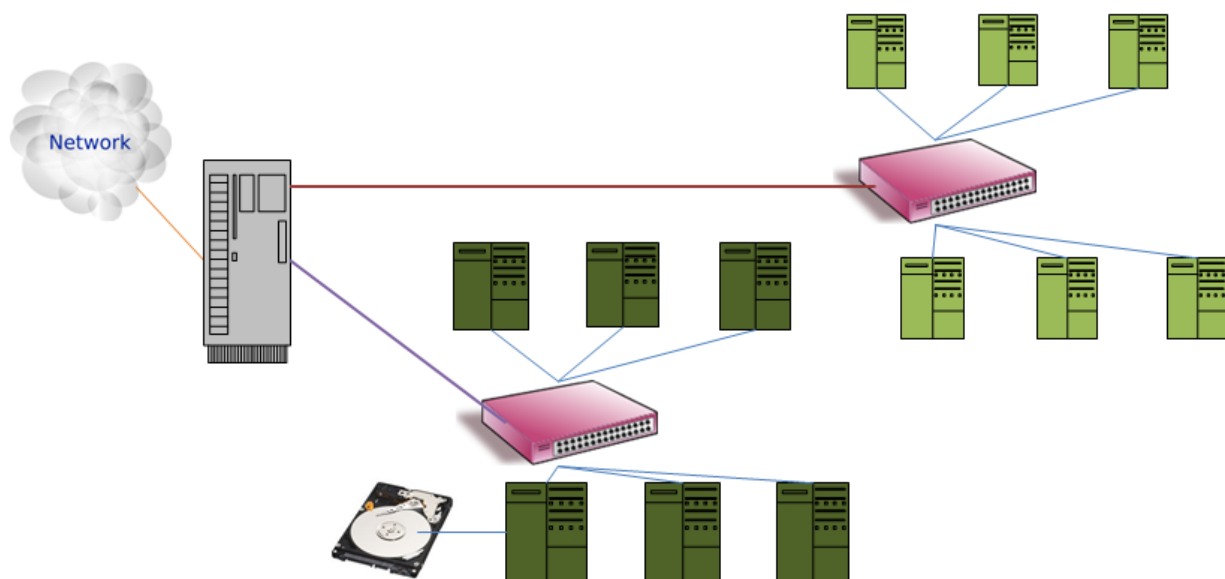
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This computer functions as a front-end system for the three compute clusters, and controls access and provides some monitoring to the various systems.

It provides additional long term storage for datasets and output, as well as login/password related control services. Since the cluster is not directly Internet connected, it handles external connectivity needs for new or updated software in addition to job up- and down- load functions. The separation this arrangement creates protects the rest of the University's network from the heavy communication loads that are sometimes needed to support parallel computing applications.

It is an upgraded Dell Optiplex 960, incorporating additional networking hardware and hard drives.

NETWORK DIAGRAM



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Clusters (2 of 3 shown, with head node+additional storage)