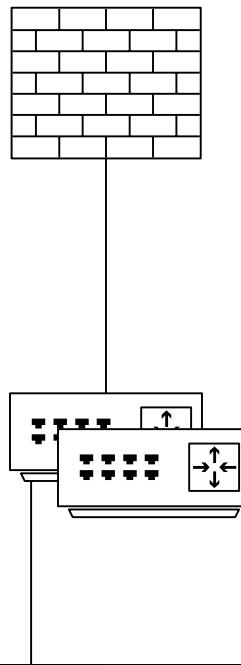


Please Note

Secondary nodes will all be located in a secondary data center. They are consolidated in this diagram for space efficiency.

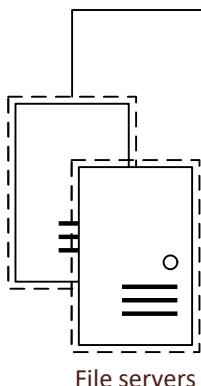
Because MAP requires significant volumes of communication between servers, failover should ideally occur for the entire datacenter, not for individual nodes.



All inbound user traffic is passed through a firewall.

Open ports: 80 and 443 to Web and QlikView servers only

Virtual load balancer will manage virtual internal IPs and distribute traffic between nodes

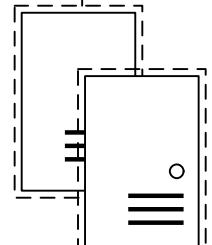


Proposed name: map-fs.milliman.com

Serve up flat file content managed by MAP

Internal traffic only; not directly accessed by end-users

Mirrored file systems to keep nodes in sync



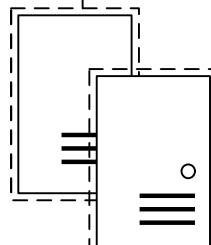
Web (IIS) servers

Proposed name: map.milliman.com

Load balancer spreads traffic between nodes simultaneously

Internal traffic only; not directly accessed by end-users

Mirrored file systems to keep nodes in sync



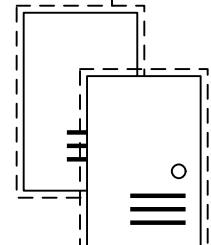
PostgreSQL servers

Proposed name: map-db.milliman.com

Use PostgreSQL mirroring in active/passive configuration

Internal traffic only; not directly accessed by end-users

Mirrored file systems to keep nodes in sync



QlikView servers

Proposed name: qv.milliman.com

Active/passive configuration managed by load balancer

Internal traffic only; not directly accessed by end-users

Mirrored file systems to keep nodes in sync

Currently still evaluating options for running on Windows vs. Linux for DB

Internal traffic only; not directly accessed by end-users

Mirrored file systems to keep nodes in sync

Same QV license installed on both, with services stopped on secondary

During failover, automate stopping services on primary and starting them on secondary