

EXCHANGE 2010



MICROSOFT® EXCHANGE SERVER 2010

This Exchange 2010 solution architecture is sized and architected according to the requirements detailed here. It is intended to serve as a blueprint or example for organizations whose requirements are similar. Each organization's requirements will differ and include other considerations not listed here. For a configuration sized to your specific requirements please contact your Dell representative.

AGILE CONSOLIDATED MODEL 5,000 MAILBOXES ON R710/PS6000

Organizational Profile:

- 5,000 mailboxes
- 1GB avg mailbox size limit
- .14 IOPS per user (~160 messages/day)

Hardware Requirements:

- PowerEdge R710 (2S, 2u rack mount server)
- Two servers and storage arrays for High Availability/DAG nodes
- Assumes hardware based network load balancer for CAS server roles

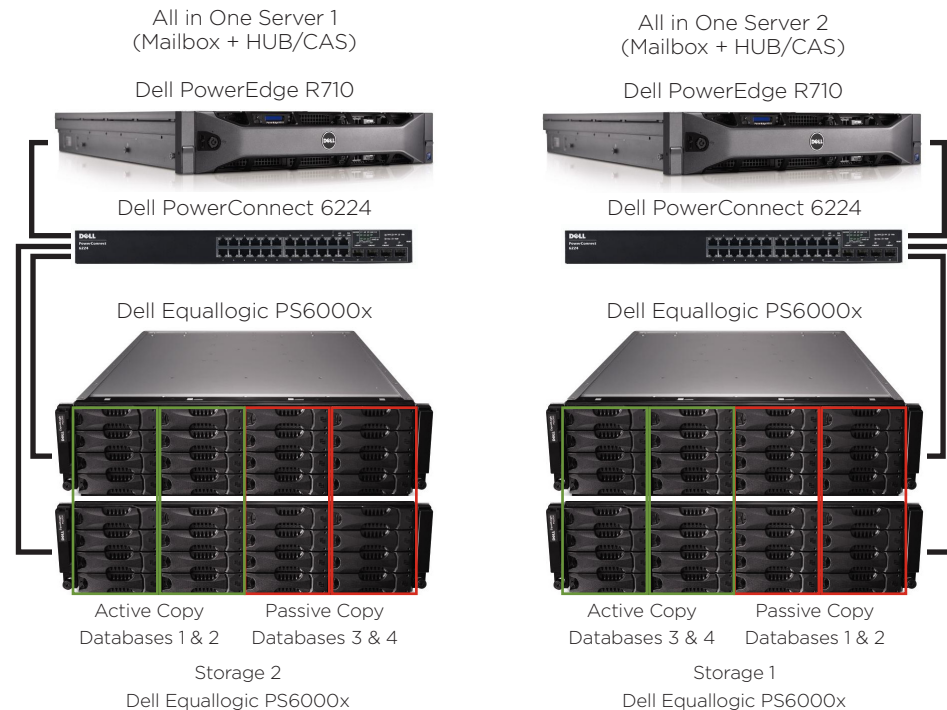
Not Included:

- Backup and recovery infrastructure
- Disaster recovery or site resiliency
- UM and Edge roles

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Input	Detail
Number of mailboxes	5,000
I/O Profile	0.14 IOPS
Size of mailbox	1GB
Number of copies	2 copy DAG
Recommended Solution	Detail
Mailbox Server	2 x PowerEdge R710
(Processor/Memory)	2 x Quad-Core processors / 72 GB memory
CAS/HUB Server	Consolidated on Mailbox Server
Storage Array	4 x PS6000X SAS 10K iSCSI Enclosure
Storage Configuration	Detail
Disk Type	10K rpm SAS - 600GB
RAID Type	RAID 50
Database Volumes	2 Active + 2 Passive Database per server
Mailbox per Database Volume	1250 Mailboxes
Additional parameters	Data and Log combined 38% estimated capacity for growth NTFS Allocation unit size = 64KB for both DB and Log

RECOMMENDED HARDWARE CONFIGURATION



Each of the database volumes are striped across the entire array.

