**Sql server platform tier 1**

* Tier 1 data considerations – customer or dpa data/financial transactions/loan application statuses/credit reference and decision data
* No development access
* Log backups should be every 15 minutes
* Virtual machines should be configured with a higher share value – question for wintel
* Performance benchmarking by:
  + Disk queue depth
  + Io wait time
  + Max cpu usage
  + Maximum threads
  + Disk throughput
  + Maximum io
* Tools for testing performance (these should be carried out on a fresh os before sql server is installed where applicable)
  + Backup nul
  + Iometer
  + Sqlio
  + Prime95
* VM memory/esx host/vm config/disks (see pages 9-12)

**SQL SERVER 2014 PLATFORM**

* Tier 3 data considerations – apps with a small user base, infrequent processes, data not used for business decisions, not required for interconnectivity of other systems
* T1 ag readable copies should be on T2
* T2 replication should be performed using VMR
* T3 replication should be performed using log shipping
* Using azure replication with t1
* Resource requirements for t1-3 (see page 9)
* VM specs (see page 10-12)
* RPOs /RTO
  + T1 <1 sec/<5 secs
  + T2 <5 mins/< 1 hour
  + T1 <1 day/<3 days
* Some farm servers may need to use sql server 2008 where the application doesn’t support a later version
* Should be 2 SSRS servers per tier
* How should cnames work for SSRS?

**WINDOWS 2003 MIGRATION SQL SERVER PLATFORM CLASSIFICATION**

* DR tier (1-7) classification (see page 6-7)
* HA tier (1-4) classification (see page 8)
* Tier servers should not be thin provisioned – question for wintel as to whether this is the case or not
* Min VM specs per tier (see page 11)
* Total farm requirements e.g. number of vm’s, total vcpu/memory/disk space (see page 12)

**WINDOWS 2003 MIGRATION SQL SERVER MIGATION METHODOLOGY**

* Following should be identified prior to a migration
  + Business identifier /name
  + Technical identifier/name
  + Business contact/owner
  + Supplier
  + Maintenance windows
  + User base
  + Existing issues
  + Classification of the data e.g. public/sensitive/confidential/etc
  + HADR
  + Benchmark performance of new platform
  + Get required people arranged for the deployment
  + System fully tested in tier 4
* Warranty of service should be provided i.e. after migration support of the system should be provided as priority for a set period of time after which it will be supported as part of normal service
* More technical details of how the migration should be carried out are on page 10