



Maximum Availability Architecture

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NETWORKS-BASED
SOLUTIONS



ANALYTICS-BASED
SOLUTIONS

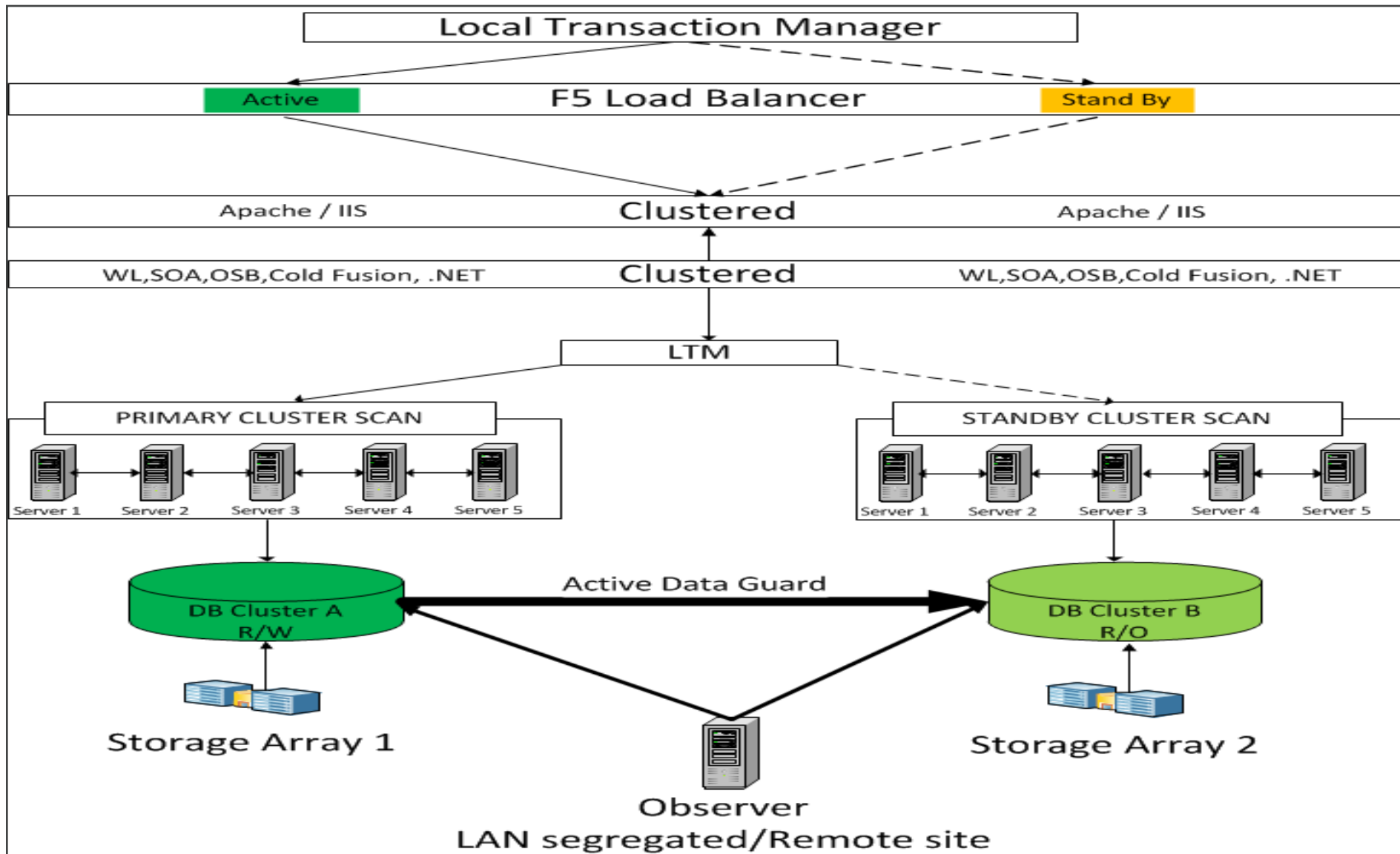


WASTE, ABUSE AND
FRAUD SOLUTIONS

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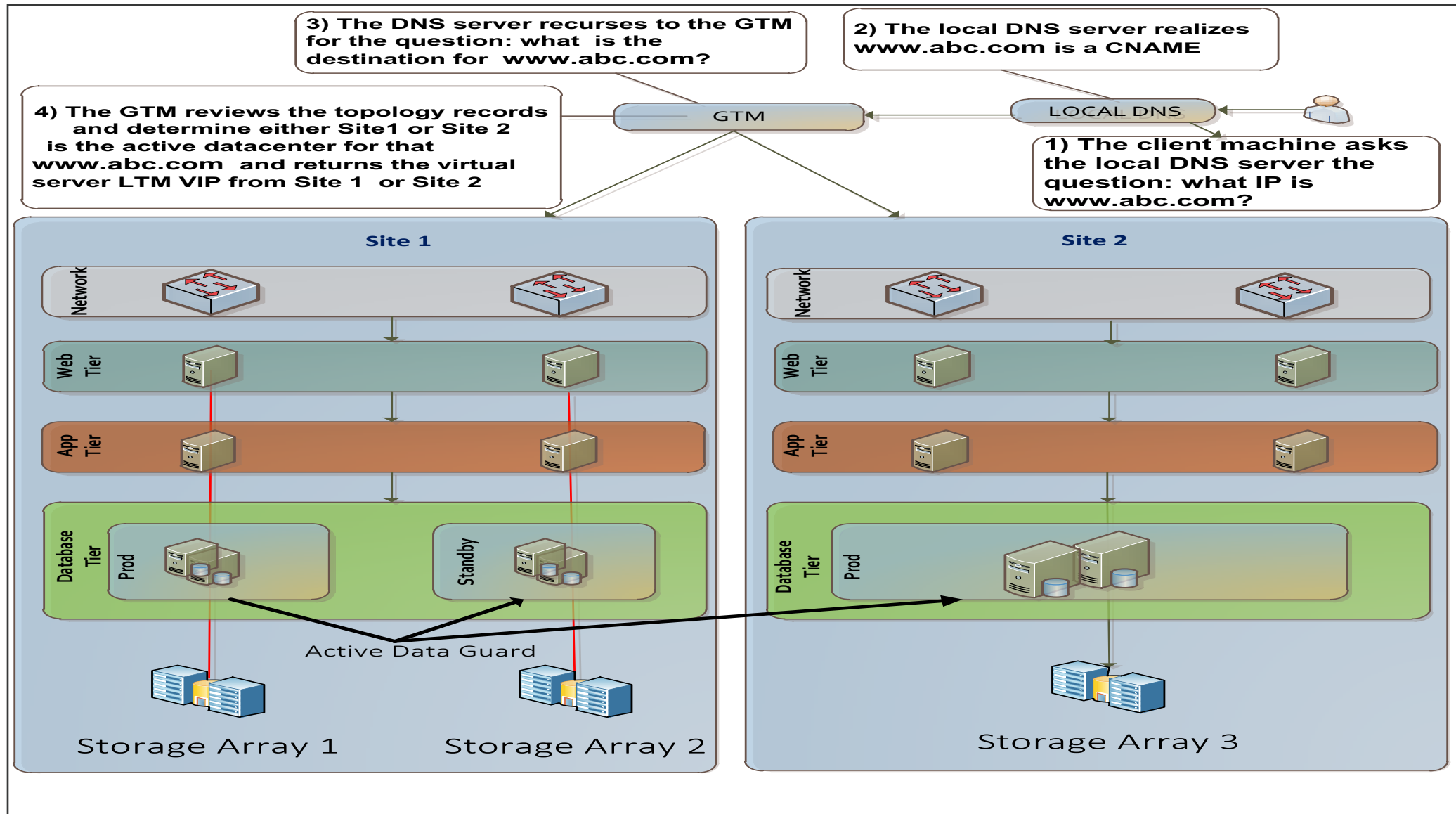
- Database
 - OS – Oracle Enterprise Linux – 6.5
 - ASM/Grid – Oracle 12.1.0.2
 - Database – Oracle 11.2.0.4, 12.1.0.2
 - SQL Server 2008, 2012, 2014
- Middleware
 - Oracle Service Bus -12.1.3
 - Weblogic Application Server -10.3.6/12.2.0
 - Coherence - 3.7/12.2.1
 - WebSphere - 6.x
 - Cold Fusion - 10.x

Single Site



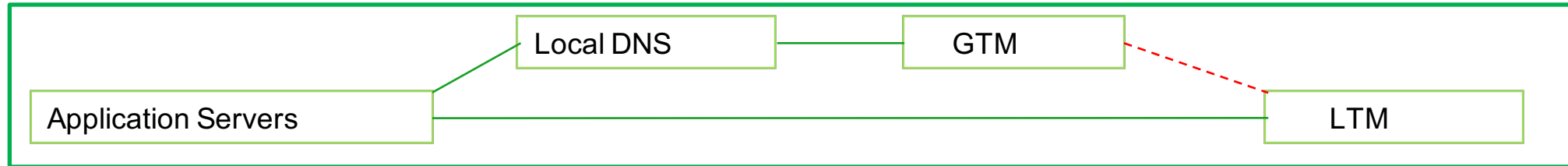
- Maximum availability for local failover/switchover – with zero Data loss
- Local Standby - SYNC Mode
 - Used for patching, this reduces the production downtime
 - Read only queries
- DR Standby – ASYNC Mode
 - Moved RMAN backups to DR – Freeing up I/O and CPU resources on primary
- We generate close to 1TB archive logs per day, the lag between Primary and DR standby is less than a few minutes

Multi Site



Request Flow

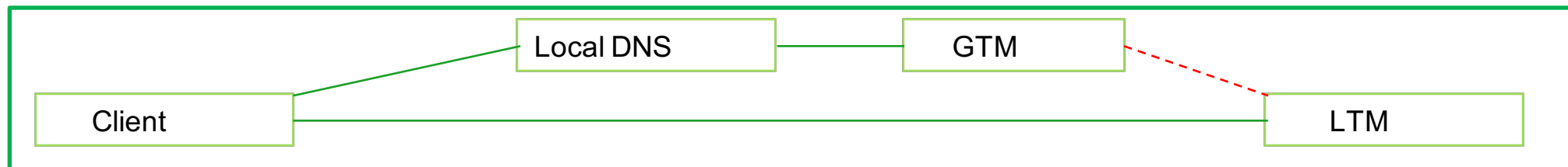
Service to Database



Service to Service



Client to Service



- Using F5 as abstract layer reduced the RTO from 2hrs to less than 5 min for failover and less than 15 min for manual switchover within a site
- The actual time for failover will be reduced once the Observer is turned on
- Combination of GTM and LTM reduced the time to cutover to a Disaster Recovery site to less than hour
- By utilizing network devices like (GTM and LTM) the configurations were maintained at single locations for multiple datacenters
- Automated release management to eliminate the need of deployments to multiple sites