Oracle MAA and F5 Networks Big IP

Oracle Maximum Availability Architecture White Paper September 2013

Maximum Availability Architecture

Oracle Best Practices For High Availability

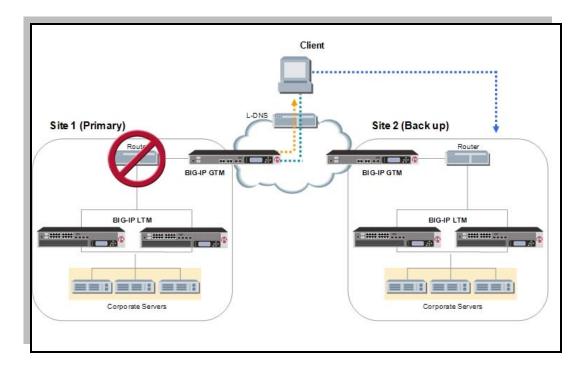


Oracle Maximum Availability Architecture (MAA) is Oracle's best practices blueprint based on Oracle High Availability (HA) technologies, extensive validation performed by the Oracle MAA development team, and the accumulated production experience of customers who have successfully deployed business critical applications on Oracle.

The goal of MAA is to achieve the optimal HA architecture at the lowest cost and complexity. MAA provides:

- Best practices that span the Engineered Systems, Oracle Database, Oracle Fusion Middleware, Oracle Applications, Oracle Enterprise Manager, and solutions provided by Oracle Partners.
- Accommodates a range of business requirements to make these best practices as widely applicable as possible.
- Leverages lower-cost servers and storage.
- Uses hardware and operating system independent features and evolves with new Oracle versions and features. The only exception is Exadata MAA which has specific and customized configuration and operating practices for Exadata Database Machine.
- Makes high availability best practices as widely applicable as possible considering the various business service level agreements (SLA).
- Uses the Oracle Grid Infrastructure with Database Server Grid and Database Storage Grid to provide highly resilient, scalable, and lower cost infrastructures.
- Provides the ability to control the length of time to recover from an outage and the amount of
 acceptable data loss from any outage.

Oracle and F5 collaborate on many of the Maximum Availability Architecture certification projects. These MAA certifications use F5 Networks Big IP LTM (various versions) as the Local Traffic Manager. Similarly, many Multi Data Center Disaster Recovery projects use F5 Networks GTM modules. A typical MAA certification effort which includes the middle tier uses a high level topology like shown in the figure below.



The Oracle Maximum Availability Architecture and F5 Networks partnership provides for Best of Breed system architectures for business and mission critical applications. The MAA Best Practices whitepapers provide guidance for the Oracle tech stack to ensure that the database, middleware, applications, servers, and storage are architected and configured for non-stop computing of the company's most important workloads. Adding the networking technologies like Local Traffic Manager, and Global Traffic Manager from F5 Networks compliment the Oracle technology stack and this MAA discipline.

F5 LTM provides load balancing, high availability and service checks inside the datacenter.

F5 GTM works with the DNS infrastructure to monitor the health of all data centers, and route users to the best available datacenter. Many of the Disaster Recovery architectures rely on GTM to ensure users and customers always connect to the best operational Oracle application.

The engineering teams at Oracle and F5 have collaborated to diligently test and document these joint reference architectures and Best Practices so customers can achieve the IT agility they require to meet their business goals.

For more information on Oracle MAA, please see the http://www.oracle.com/goto/maa
For more information on F5 solutions for Oracle, please see http://www.f5.com/oracle



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