



Scalability and Performance in Kovair Omnibus

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Document Version History

Release	Date	Reason
Version 1.0	09/03/2014	Initial Release

Kovair Software is a Silicon Valley based software Product Company specializing in the domain of Integrated Application Lifecycle Management - ALM solutions. Our objective is to make the software development process better, faster and collaborative – anytime, anywhere, using any tool, platform and technology. Kovair’s focus on integrating third party best-of-breed tools enables creation of applications in a synchronized tools environment.

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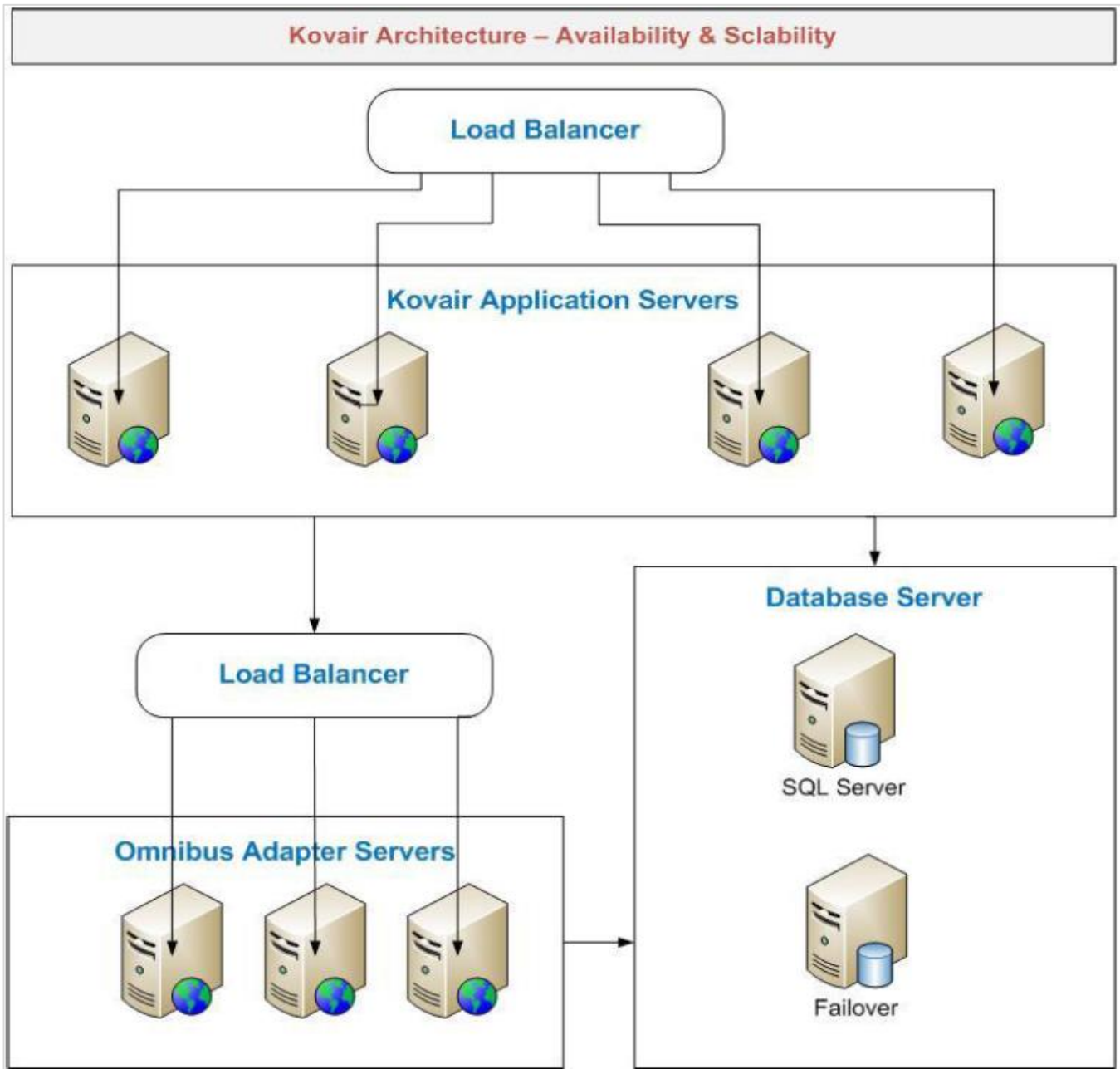
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Scalability and Performance in Kovair Omnibus

Scalability in Kovair Omnibus

Kovair Omnibus is often adopted in an organization in an incremental fashion. The deployment starts with a few projects and based on their success the solution is pushed for adoption to other project teams. Often the number of tools integrated through Omnibus increase at a rate higher than expected. Under these circumstances, sometimes, the initial planned hardware infrastructure proves to be inadequate to handle the increased load on the Omnibus servers. Kovair Omnibus is built in a way that is easily capable of scaling up to meet these requirements. Most of the Kovair components are stateless Web Services or WCF services which can be hosted on multiple parallel servers without causing any conflict.

The web servers hosting the Kovair Omnibus integration platform can be placed under a load balancing mechanism thus enhancing the performance while accommodating for a higher number of users. The system has been designed in such a way that there is no dependence on any web server session – hence ensuring that there will be no issues even if consequent requests from the same client reaches different physical servers. As more and more tools are integrated into the ecosystem we suggest our Customers to add new physical or virtual servers to host these new adapters. This ensures that performance of the existing adapters is not impacted by introducing new adapters into the system.



Data volume and Performance in Kovair Omnibus

Kovair stores a lot of data that is passing through the integration bus. This data is used for monitoring events and actions in different tools and to enable Customers to perform different types of reporting. Optionally, all the data passing through Omnibus can also be copied into the Kovair application as individual artifacts that can be viewed/edited inside their own forms in the Kovair application. These artifacts inside Kovair can also be used as an interim storage of items for further processing and transforming into more meaningful data and then pushing the derived data to other tools.

All this means that there is a potential risk of accumulating huge data in the Kovair databases. Kovair addresses this issue with the help of its archiving policies. The Kovair application has some archive services which run periodically and move old data from transactional tables to archive tables. The archive tables can also be cleaned up at a longer interval. This ensures that the performance of the application is not hampered at any time due to accumulation of huge data. The frequency of archiving can be changed as per the requirements of the Customer. Apart from this, periodic maintenance activities of the Kovair databases is suggested wherein the databases are shrunk and the transactional log data is deleted to reduce the overall size of the database on disk. It is also a constant endeavor in Kovair to improve on the performance of the system and accordingly patches are released and delivered to our Customers.

Customer success with large user base

Kovair has Customer success stories where a large number of tools are integrated through Kovair Omnibus and is being used successfully by a very large user base. One of the major Indian IT Service companies is using Kovair Omnibus successfully since 2009 with 16 tools integrated and more than 20,000 users with several hundred different projects at any given time with load balanced servers from 6 different locations.

Conclusion

Kovair Omnibus is built on a robust architecture than can be easily scaled to support globally distributed enterprise class deployments. It is a proven fact based on actual field experience that Kovair Omnibus is capable of accommodating large number of tool integrations and supporting thousands of users while delivering acceptable performance.