RESEARCHSPACE@AUCKLAND DISASTER RECOVERY (DR)

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THE UNIVERSITY OF AUCKLAND
NEW ZEALAND
Te Whare Wānanga o Tāmaki Makaurau

Introduction & Motivation

- The University of Auckland (UoA) has largest library system in the nation

- ResearchSpace uses DSpace and located on the Sun E25K server

- Partnerships between the University of Auckland Library and ITS Department

- To make most of the enterprise application systems more robust and highly available

- Disaster Recovery means to backup and protect irreplaceable data

- Backup alone is not enough for disaster recovery

- Increase the synchronicity of data replication to reduce recovery point

- Setup standby system for data to be online and available at another site to reduce recovery time
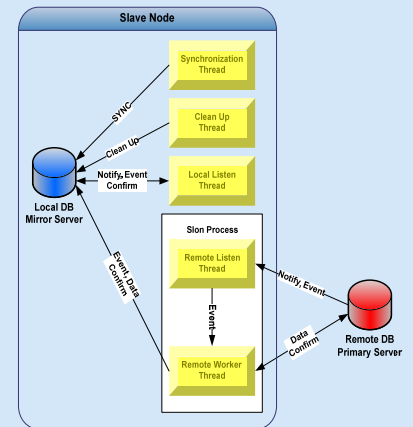
Network Architecture Improvement
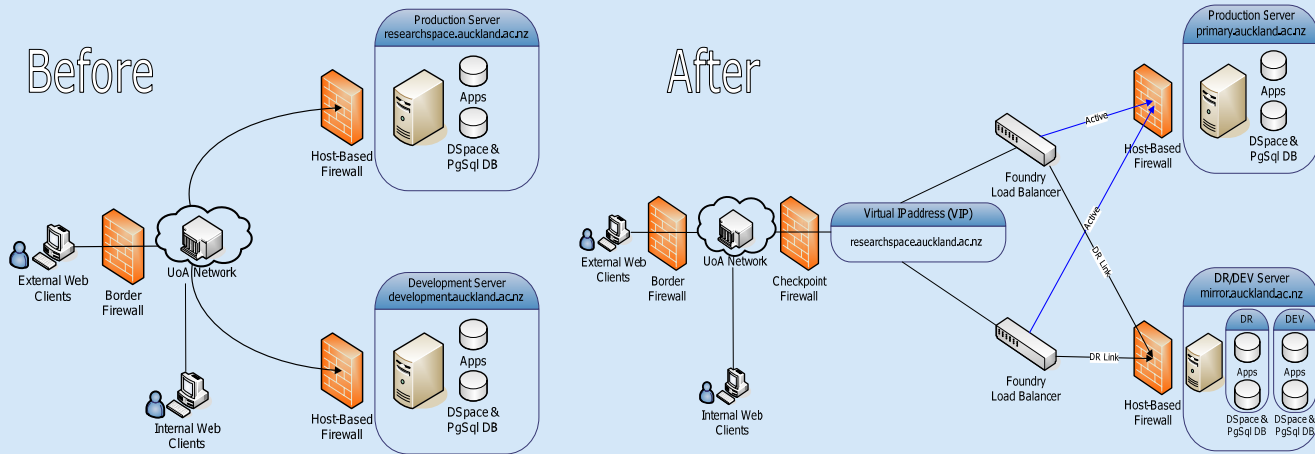
Handle Setup & PostgreSQL Replication
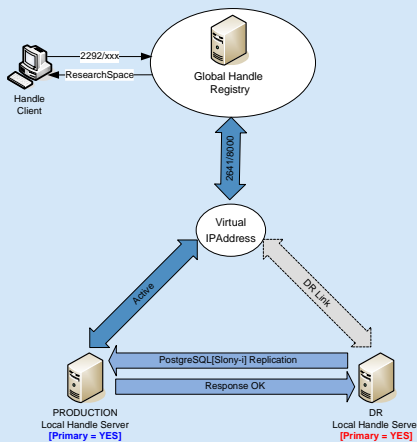
- Continue normal Backup

- Setup DSpace Application

- Setup Handle Server [Primary=YES]

- Setup PostgreSQL Replication with Slony-I for database and handle

- Synchronized for [dspace]/assetstore

Challenge & Conclusion

- Using Foundry to manage complex routing and addressing

- Solaris cluster zoning caused serious performance issues solved by relocating subnets

- Handle Replication solved by replicating the database using third party replicating software (Slony-I)

- Backing up digital information to limit data loss and to aid data recovery

- Reduce the amount of time between disaster and post-disaster

- Provide more robust and consistent system performance

- Trustworthy systems attract more users to voluntary deposit data