Introduction & Motivation

- The University of Auckland (UoA) has the 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

- 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

Handle Setup & PostgreSQL Replication

- 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.

Challenge & Conclusion

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