

2-1-2011

# Design and Implementation of Highly Available Information Systems

Ken D'Aquin  
*The University of New Orleans*

Follow this and additional works at: <http://scholarworks.uno.edu/dru2011>

---

## Recommended Citation

D'Aquin, Ken, "Design and Implementation of Highly Available Information Systems" (2011). *DRU Workshop 2011 Presentations - Disaster Resistant University Workshop: Building Partnerships in Mitigation*. Paper 6.  
<http://scholarworks.uno.edu/dru2011/6>

This Presentation is brought to you for free and open access by the Conferences and Workshops at ScholarWorks@UNO. It has been accepted for inclusion in DRU Workshop 2011 Presentations - Disaster Resistant University Workshop: Building Partnerships in Mitigation by an authorized administrator of ScholarWorks@UNO. For more information, please contact [scholarworks@uno.edu](mailto:scholarworks@uno.edu).

# Design and Implementation of Highly Available Information Systems

Presenter: Ken D'Aquin

# The Spectrum of System Failure

- Server Loss
- Power/Cooling Failure
- Isolated Fire
- Facility Loss
- Regional Disaster

# Overview

- Environmental Preparation
- Hardware Redundancy
- Software Redundancy
- Geographic Redundancy
- Outsourcing



- Environmental Preparation

- Power

- Cooling

- Fire Suppression

- Physical Security

- Monitoring

- Hardware Redundancy
  - RAID
  - Redundant Memory
  - Redundant Processors
  - SAN Storage
    - Redundant Paths
    - Redundant Controllers
    - Advanced RAID

- 
- Software Redundancy
    - OS Clusters
    - Application Clusters
    - Virtualization



- **Geographic Redundancy**

- Remote Sites

- WANs and VPNs

- Remote Staffing

- Collateral Relationships



- 
- Outsourcing
    - Hosted Services
    - Cloud Computing
    - Consulting
    - Support Agreements

# Other Resources

Here are some links to cloud computing resources that might fit your needs.

- **Online backup solutions:**

- <http://www.sosonlinebackup.com/features.htm>
- <https://www.idrive.com/index.html>
- <http://mozy.com/pro/features/>
- <http://www.carbonitepro.com/>

- **Online File Sharing Solutions:**

- <http://www.sosonlinebackup.com/features.htm>
- [http://www.box.net/solutions/cloud file server](http://www.box.net/solutions/cloud_file_server)
- [http://www.sharepointsite.com/hosted sharepoint/plans/shared sharepoint/](http://www.sharepointsite.com/hosted_sharepoint/plans/shared_sharepoint/)
- <http://www.apps4rent.com/sharepoint.html>

# Questions?

- Contact Info

- <http://en-gb.facebook.com/people/Ken-DAquin/100002116207924>
- Email: [kdaquin@uno.edu](mailto:kdaquin@uno.edu)

- These slides area available at:

- <http://www.box.net/shared/5b1ct7l7bx>