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Design and Implementation of Highly Available Information Systems

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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

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- Software Redundancy
 - OS Clusters
 - Application Clusters
 - Virtualization



- **Geographic Redundancy**

- Remote Sites

- WANs and VPNs

- Remote Staffing

- Collateral Relationships

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- 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?

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- These slides area available at:

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