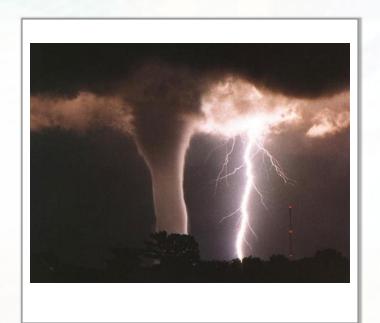




DISASTERS: A BRIEF INTRODUCTION

What Do We Mean By "Disaster?"



- Saying "disaster" often invokes visions of twisters and floods
- Disasters (and recovery strategies that address them) come in many forms

The U.S. Government's Take¹

IT risk management covers three categories:

- Natural (hurricane, tornado, flood, fire ...)
- Human (operator error, sabotage, implant of malicious code, terrorist attacks ...)
- Environmental (equipment failure, software error, telecom network outage, electric power failure ...)

The Landscape Is Changing²

1998

- 1. Hardware (74%)
- 2. Data Corruption (17%)
- 3. Fire/Power (3% each)

2007

- 1. Hardware (35%)
- 2. Power (22%)
- 3. Flooding (12%)



SHAREPOINT AND THE DR EQUATION

The Message

- It's <u>all</u> about your content
- Backups ≠ Disaster Recovery
- How to be a DR Hero

Words To Remember

"About to inform someone there is no perfect SharePoint DR solution. I suspect they will take it hard. They want perfect."

Mike Watson (@mikewat on Twitter)

-- Senior Product Manager, Quest Software

Content: The Balancing Act

SharePoint Content

SharePoint Customizations

SharePoint Servers

SQL Server

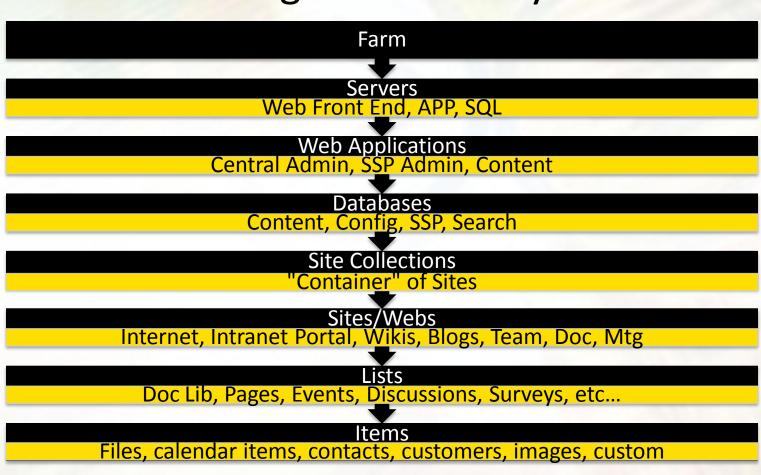
IIS

Windows Server

Network

You

SharePoint's Logical Hierarchy



Tonight On SPBC: An All New "DR Heroes"

S H A R E P O I N T

Save the Content, Save the Business

To be a DR Hero, you need:

- Measurements
- Means
- Manpower (or Womanpower)
- Maintenance

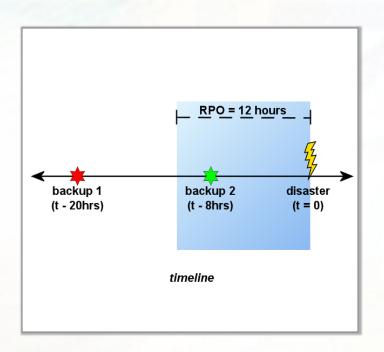


MEASUREMENTS

DR Plans Begin With Targets

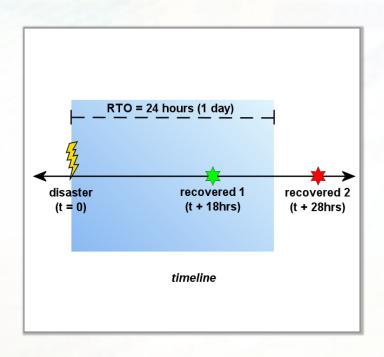
- DR is driven by business owners and stakeholders as part of a larger strategy
- The ultimate measure of a DR plan's success is whether or not it hits business-supplied targets
- DR targets are described in DR terms

RPO



- Acronym for "recovery point objective"
- Measured in time
- Describes maximum amount of acceptable data loss

RTO



- Acronym for "recovery time objective"
- Also measured in time
- Describes maximum amount of time that can be taken to restore a system or functionality

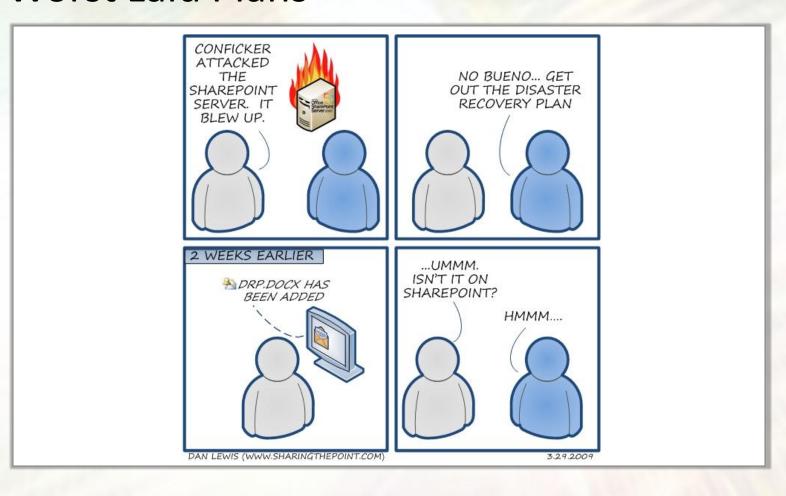


MEANS

Tools And Techniques

- What do they cover?
- What don't they cover?
- Granularity
- Usability
- Viability (with given RPO & RTO targets)

Worst Laid Plans



Commonly Available Tools



- SharePoint Designer
- CA backup/restore
- STSADM backup/restore
- SQL backups

SharePoint Designer



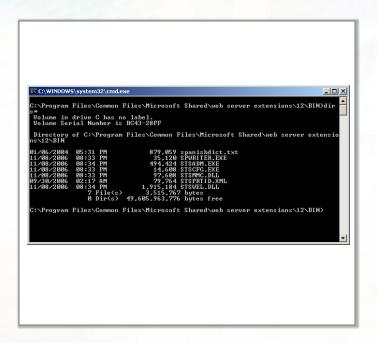
- The admin's nemesis
- Best case: end user content protection
- What can it do?
 - Structural migration
 - Site template creation
 - Content migration

Central Administration Backup/Restore



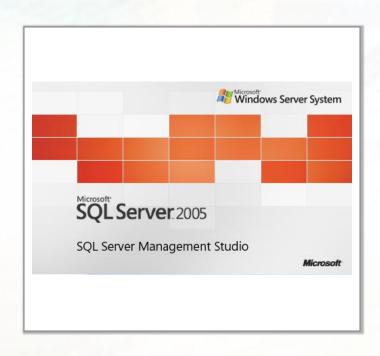
- Use case: one-off backups
- What can it do?
 - Farm
 - Web applications
 - Content databases
- Remember, content is king

STSADM.EXE Backup/Restore



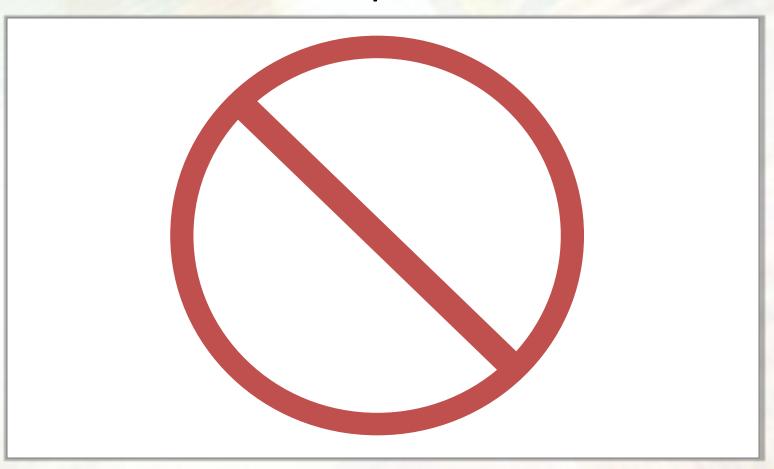
- Use case: regularly scheduled backups
- What can it do?
 - Farm
 - Web applications
 - Content databases
 - Site collections
- Did we mention that content is king?

SQL Server Database Backups



- Use case: scheduled backups for larger farms
- What can it do?
 - Content databases
- Bring your hard hat

Virtual Machine Snapshots



Additional Techniques And Strategies

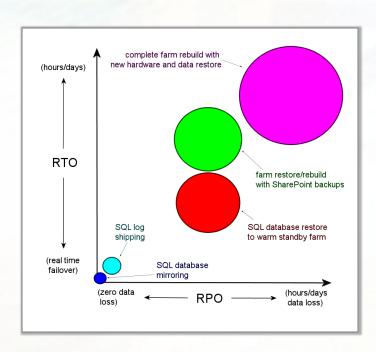
- Different techniques for different requirements
 - Clustering
 - Load balancing
 - Database mirroring
 - Transaction log shipping
 - Real-time replication
- As mentioned earlier, no "one size fits all"

Third-Party Tools



- It's a competitive market
- Can they do everything?
- How low can they go?
- http://tinyurl.com/SPDRProducts

The RPO And RTO Continuum



- Assumes an offsite DR strategy is in place
- Both cost and "performance" decrease as you move away from the origin
- Every solution has a different RPO & RTO footprint



MANPOWER (AND WOMANPOWER)

The Human Factor

- Who do you need?
- Know their roles
- When do you need them?
- People need backups, too
- Get the correct outsiders in on it
- Be thorough and make sure every nail is in every horseshoe



MAINTENANCE

Complacency Kills

- The only constant is Change
- Track and control your changes
- Test
- Test
- Test
- Validate results and create more baselines
- Test some more



CLOSING THOUGHTS

Putting It All Together

- Be a DR Hero
- DR is not just about having a tool or making backups
- The is no perfect SharePoint DR solution
- In the end, your users care about their content.
 Make sure you do, too.

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 Special Publication 800-34. "Contingency Planning Guide for Information Technology Systems." June 2002
 http://tinyurl.com/SPDRNIST
- 2. "Number of Risks to UK Businesses Increases Over Past Ten Years." <u>Sungard Availability Services</u>. 7 April 2009. http://tinyurl.com/SPDRSungard



Questions?

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The SharePoint 2007 Disaster Recovery Guide

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