



Backup & Disaster Recovery

James Robertson

Operations Manager

BMC Networks, Inc.

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Backup



Backup

- What is it?
 - Point in time snapshot with historical retention
- Why do we do it?
 - Protection against data loss
 - User error, hardware failure, theft, localized disaster, large natural disaster

Key Objectives

- Recovery Point Objective (RPO)
 - How much data loss is tolerable in a failure?
- Recovery Time Objective (RTO)
 - How much time will it take to recover?

Security & Reliability

- Reliability
 - Monitor success & failure
 - Regular testing
- Security
 - Data Encryption
 - Physical Security

Offsite Storage

- Why?
- How?
- How Often?
- Reliability
- Security

Recovery Process

- How is it done?
- Who will do it?
- What supplies will be required

Solutions

- Tape
 - Slow; long RPO; very long RTO
 - Requires specialized hardware and software
- Disk
 - Fast; short RPO & RTO
 - Offsite is more difficult
- Cloud
 - Fast; short RPO; long RTO for full recovery
 - Security, location of data

Disaster Recovery



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Disaster Recovery Plan

- Encompasses the entire business
 - Key personnel / decision makers
 - Contact information
 - Work location
 - Procedures
- DR plan for the business drives the technology required

Disaster Recovery Technology

- Manual offsite transfer & storage
- Automated offsite backup replication & storage
- Automated replication to a cold or hot standby site

Reliability

- Well documented procedures
- Monitoring
- Continuous evaluation
- Regular testing