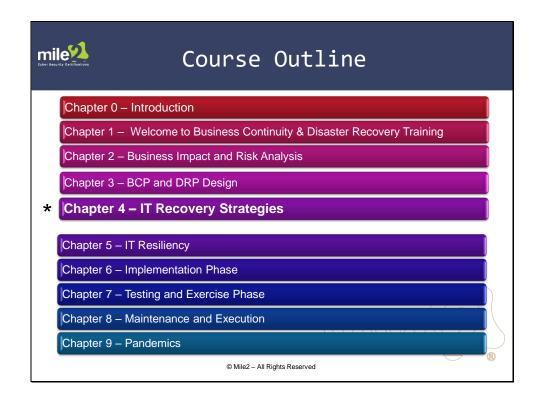
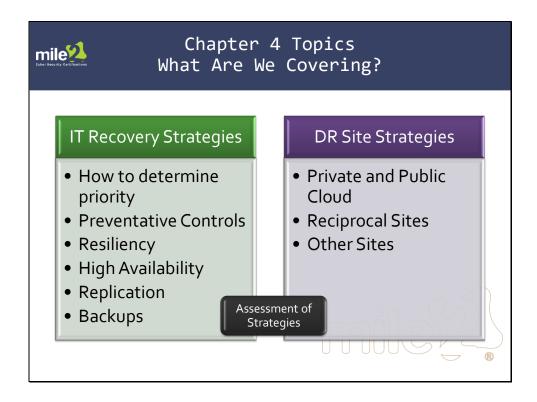
CDRE - Certified Disaster Recovery Engineer Chapter 4 - IT Recovery Strategies

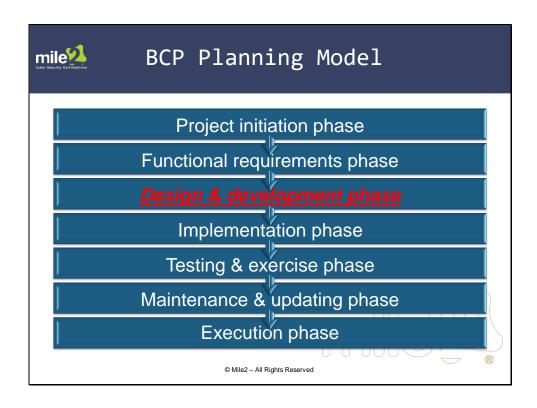
Workbook





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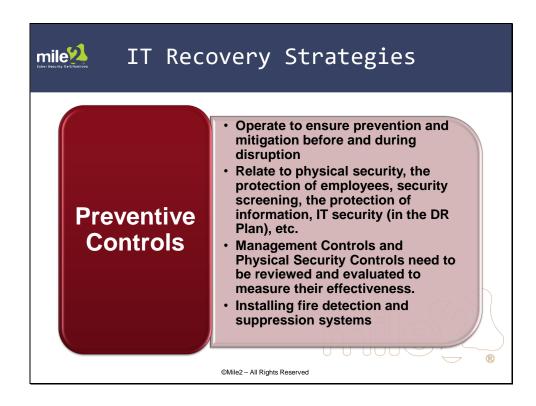


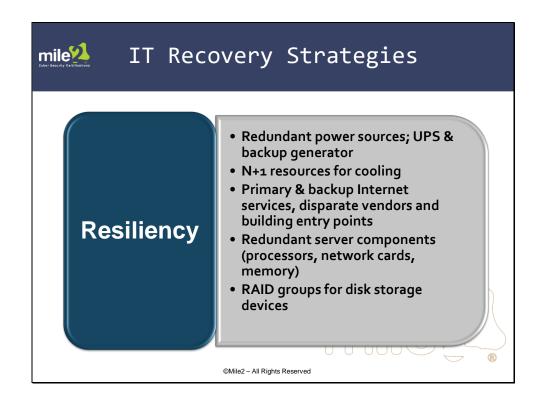


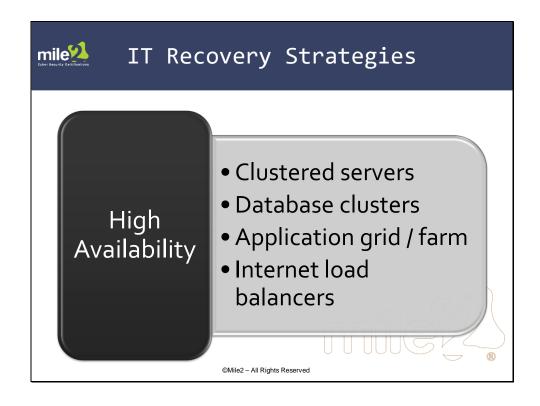
IT Recovery Strategies

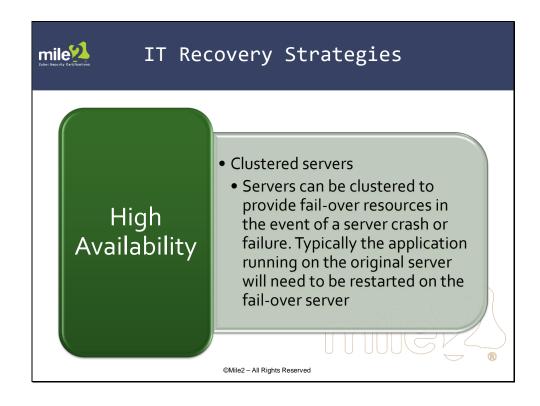
Determined by priority of business processes

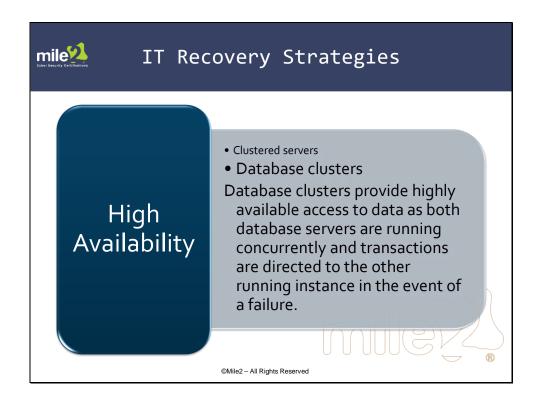
- Determined in the BIA
- RTO / RPO will drive strategy / solution
- Consolidate solutions
- Benefits to lower priority processes

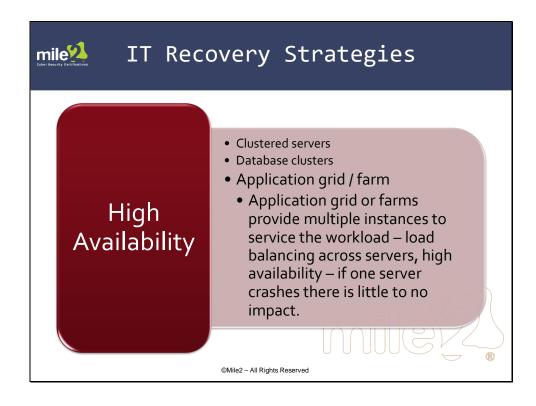


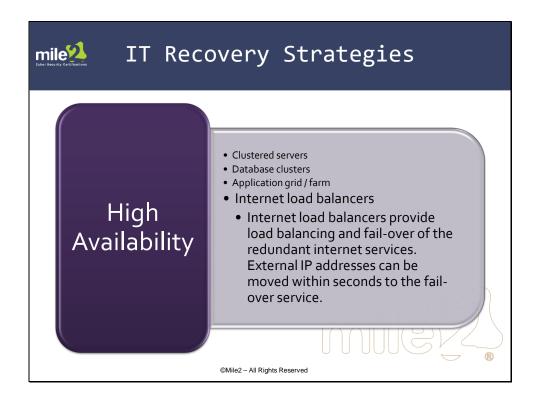


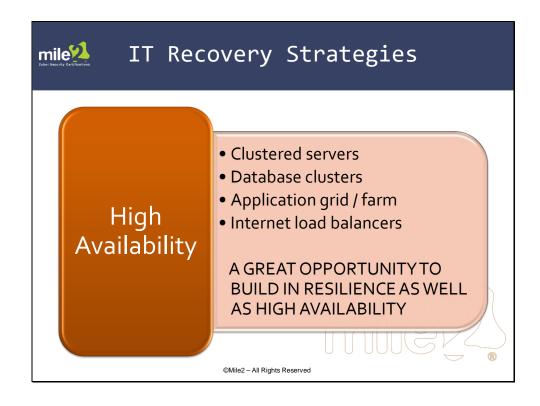


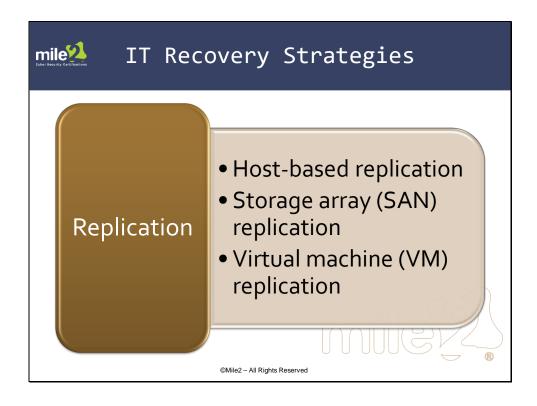


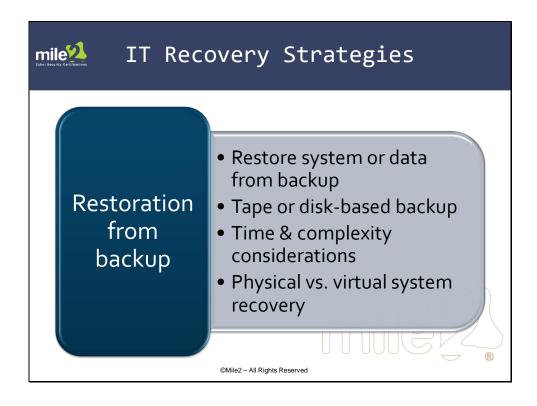






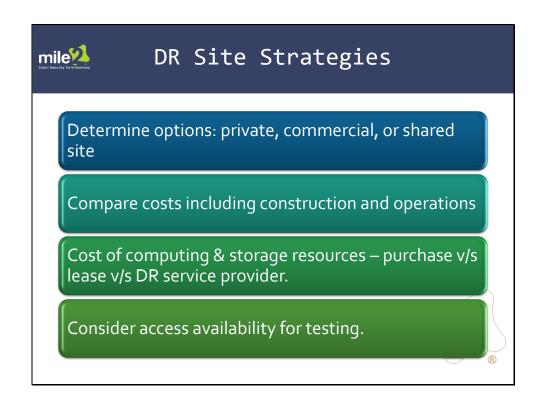






Assessment of available Strategies • To select the most appropriate recovery strategy, each must be assessed in terms of: • possible disruption • impacts to the organization • Risk vs. Benefit • Feasibility and cost







Private Cloud

- Privately owned Build or utilize existing data centers.
- Full control over access and use of resources.
- Potentially leverage location for both data center and staff recovery.
- Facilities management and staffing costs.

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Public / Commercial Cloud

- Get out of the data center business no staffing or plant maintenance.
- Pay for just the services you need when you need them.
- Can be fully configured with all required hardware, software, networking, and office equipment.
- Move production offsite and have built-in disaster recovery!
- Recurring monthly costs



Community / Reciprocal Site

- Two companies with similar & spare processing resources agree to back up each other's critical applications
- Advantages
 - No separate data recovery site is required
 - Most necessary equipment may be in place and maintained
- · Disadvantages
 - · Testing coordination can be difficult
 - · May limit growth capacity for each party
 - · Security can be a challenge
 - · Legal / compliance concerns



Hot Sites

- Fully configured with all needed hardware, software, and office equipment.
- Privately owned or purchased from a commercial DR vendor
- · Communication links and configurations in place
- · Data is likely not on site unless redundancy is maintained
- · Advantages:
 - · High level of readiness (RTO 24-48 hrs.)
 - · Annual Testing could be performed
 - · May contain separate work area for end user recovery
 - · Local IT staff on hand to provide assistance
- · Disadvantages:
 - Cost \$\$\$\$\$
 - · Access Logistics and Competition

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Warm Sites

- · Partially configured with some equipment
- · A hot site without the major computer hardware
- · No data on site
- Advantages:
 - Lower level of readiness (RTO > 7 days)
 - · Cheaper than hot site
 - Suitable for companies with proprietary software and equipment that may not be compatible with a hot site vendors usual systems
 - · External communication links are usually configured
- · Disadvantages:
 - · Difficult to test
 - · Local IT staff may not be available to help



Cold Sites

- HVAC, power but nothing else
- · No data on site
- Advantages:
 - Cheapest Option
 - Could be used for multiple purposes
 - · Warehouse storage or training facility
- · Disadvantages:
 - Cannot test
 - Lowest level of readiness (RTO = months)

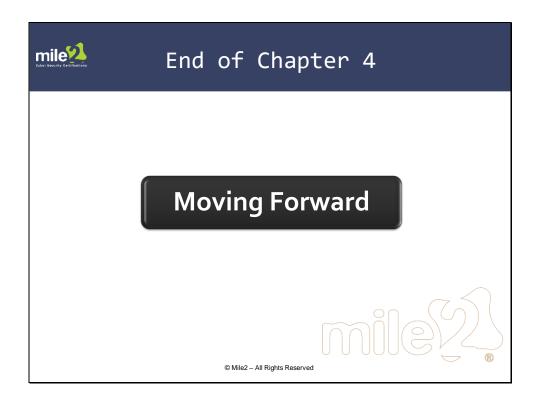
MIGHT BE USED AS A PLAN 'B' ALTERNATIVE



High Availability

Consider the use of high availability (HA) processes within any DR strategies to provide for online real-time resilient access to alternate system resources. HA denotes systems that can achieve an uptime of 99.999 percent or better. Note that HA is a process for achieving high availability and should not be confused with FIPS 199 high-impact category systems.

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Questions and Answers

Review Questions:

- 1. Proper BCP Design includes which of the following?
 - A. Scope & Objectives
 - B. Limitations & Assumptions
 - C. Escalation, notification, and activation procedures
 - D. Emergency Management procedures
 - E. All of the above
- 2. BCP Design includes which of the following Escalation, Notification, and Activation procedures?
 - A. Clarify when an incident becomes a disaster
 - B. Identify who has the authority / responsibility to declare
 - C. Define communications tree contacts and their responsibilities
 - D. All of the above
- 3. BCP Design of Business Unit Recovery Plans can include the following:
 - A. Manual steps to follow during an outage
 - B. Operational procedure changes at the recovery site
 - C. Transportation to & from housing at the recovery site
 - D. All of the above
- 4. BCP Design of the Public Relations Plan does not include:
 - A. Pre-determined message to public, customers, & media
 - B. Secondary message ensuring services and data are safe and available or recoverable
 - C. ETA for resumption of services
 - D. Contacting your biggest competitor during the disaster
- 5. True or False: A proper BCP Design will include a primary site resumption plan in order to reduce the time required at the alternate site.
 - A. True
 - B. False

Answer Key:

1. E

Proper BCP Design includes all of the options listed.

2. D

All of the above are included in BCP design.

3. D

BCP Design of Business Unit Recovery Plans can include all of the above.

4. D

BCP Design of the Public Relations Plan does not include contacting your biggest competitor during the disaster.

5. A

True. A proper BCP Design will include a primary site resumption plan in order to reduce the time required at the alternate site.