

Business Continuity Planning

Information Security

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Outline

- 1 The session
- 2 Response Planning
- 3 Continuity Strategies
- 4 Insurance and Responsibility
- 5 Closure

Session objectives

- understand the relationship between incident response, disaster recovery, and business continuity
- be able to identify risks and possible solutions to business continuity

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Incident response and disaster recovery

- Incident response
- Disaster recovery

Introduced before; what do we mean?

Incident response and disaster recovery

- Incident response (IR)
 - immediate action
 - effective IR should mean negligible effect on operation
 - serious disasters may be out of scope for IR
- Disaster recovery
 - restoring status quo
 - restoration may take time
 - production loss may incur while we wait

Business Continuity Plans

- *keep the business going*
 - when incident response falls short
 - while we wait for disaster recovery
- BCP supplements IR and DR
- The scope is the most serious incidents
 - when IR/DR is insufficient

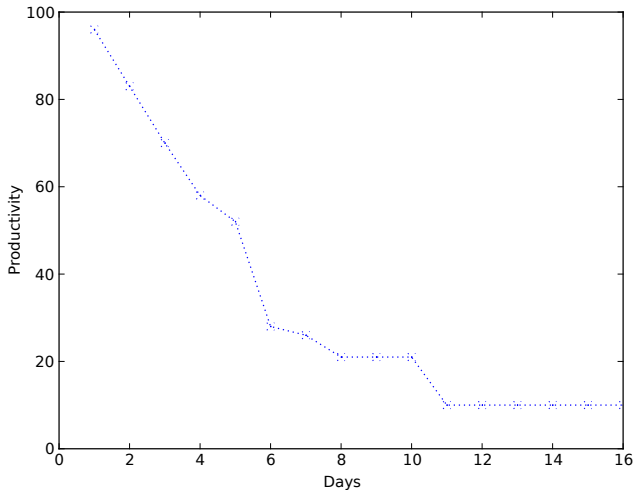
Why is BCP important?

- What happens if you lose email connection for
 - ... 10 minutes?
 - ... 1 hour?
 - ... 4 hours?
 - ... 2 days?
 - ... a week?
 - ... a month?

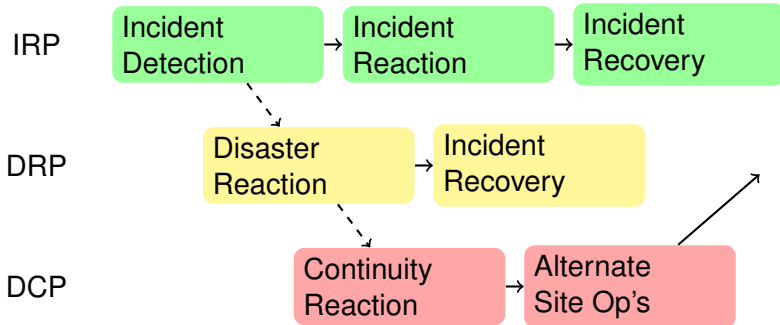
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Incidents and Productivity



Contingency Planning



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What are the challenges in a disaster?

- Hardware
- Software and configuration
- Data (restored from backup)
- Location — Buildings

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Dedicated sites

Hot Sites a fully functional computing facility installed and configured for the organisation

Warm Site a partially installed computing facility. It typically includes server hardware, but not applications and workstations.

Cold Site is just a spare building where a computing facility may be installed

Shared facilities

Time-Share several organisations share a hot/warm/cold site. This gives more value for money, assuming that two organisations will not hit simultaneous disasters...

Service Bureaus provide a service for a few, such as an agreement to provide physical facilities in the event of a disaster

Mutual Agreements is some agreement between organisations to assist eachother in the event of a disaster.

Different facilities

Server and Data Centres High-security facilities. Security-aware management. Good planning is common.

PC-s and Workstations Are often forgotten. Left to the attention of individual users.

Remote Storage

- Backup is an obvious control
- Most common threats to control are
 - media decay and disk failure
 - user errors (deleting the wrong file)
- Rarer events include fire and theft
- Remote storage is essential to avoid losing both in the same event
- BCP: roll out the backup on an alternate site
 - can you do it quickly enough?

Do you make remote backups as frequently as local backups?



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Continuity Planning versus Insurance

Is insurance an alternative to continuity planning?

- Insurance will normally cover recovery.
- It will rarely cover consequential loss
 - such as lost productivity
- Extended down-time may cause irreparable loss

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Conclusions

- Business Continuity Planning supplements other plans for security
- Where other plans focus on resolving a situation
 - BCP only provides a temporary solution
 - to keep going while the other plans are executed
- BCP often includes a backup facility
 - to run operations temporarily