Managing the Chaos

- Setting up your Disaster Recovery Plan

It’s a fact: cyber attacks continue to rise.

- 122 records are stolen every **second.**
- Less than **5%** of those records will be encrypted.
- A company is hit with ransomware every **60** seconds.
- For a site outages, **67%** of companies estimate a loss of over **$20k+** for every day of downtime.

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We need to do more than defend.

We need to be prepared.

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Enter the Disaster Recovery Plan

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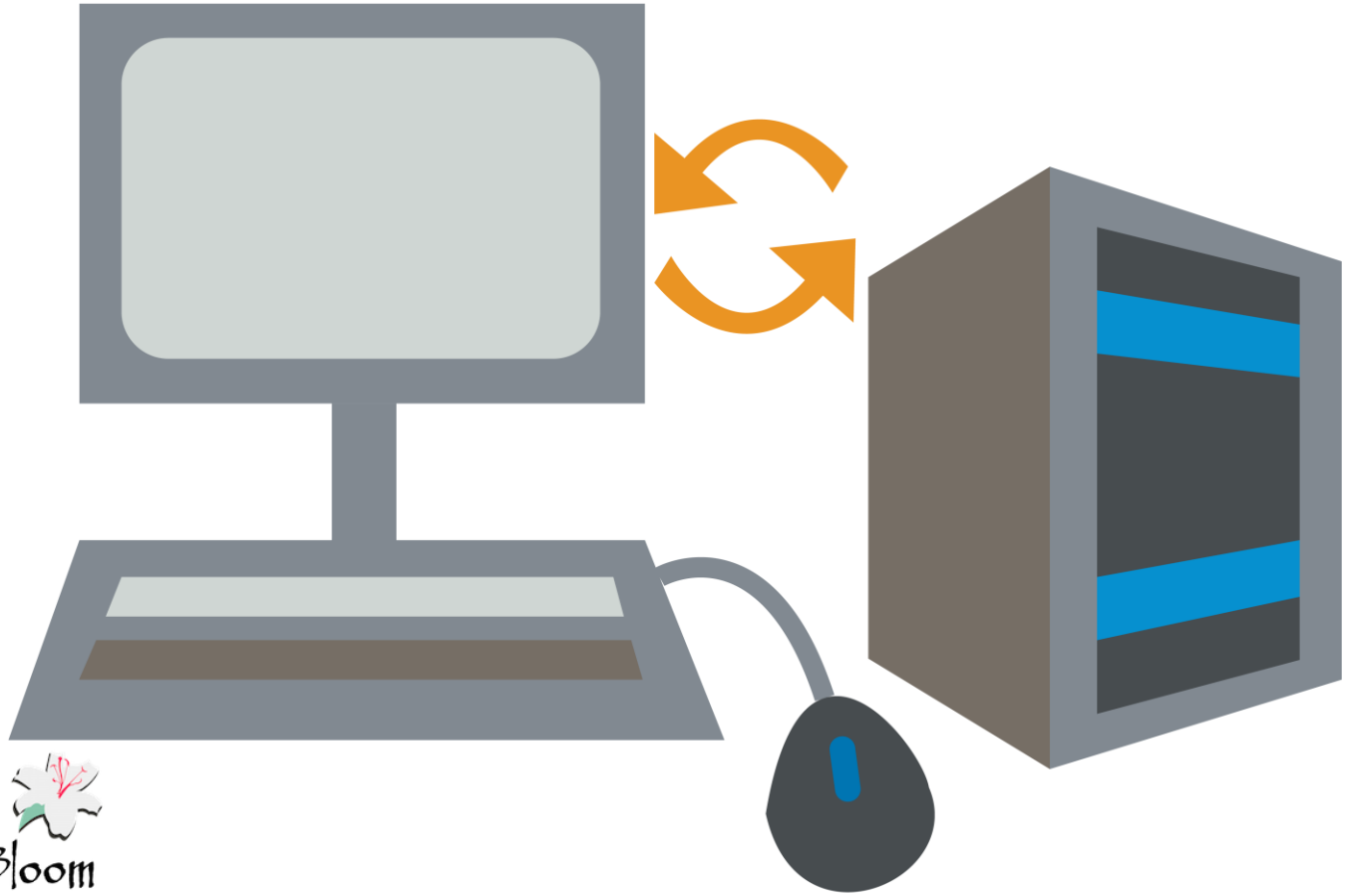
What We Often Think of as Disaster Recovery



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What is a Disaster Recovery Plan (DRP)?

- **Documented process** for protection and recovery.
- **Prepare** how to put out the fires.
- **Minimize** damage when you get hit.
- Get back up and running **faster**.

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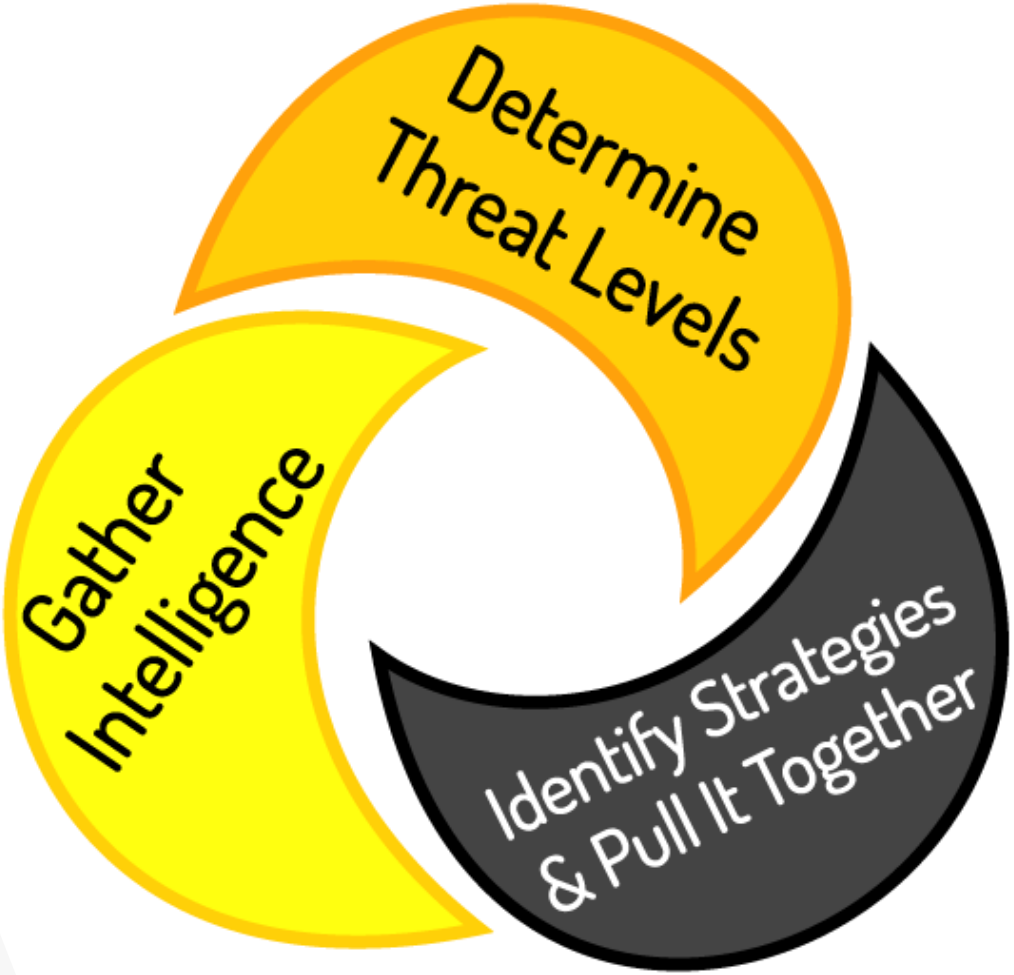
Elements of A Disaster Recovery Plan



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Gather Intelligence

What do we have, what are our safeguards and where’s that Bat-signal?

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Information Auditing and Data Mapping

- Learn the ‘what, where, how, who and why’ of your data.
- Involve stakeholders from all affected units.
- You can’t protect what you don’t know exists.
- Visualize the data’s pathways, partnerships, and processes.

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Identify Existing Safeguards

- What do we have to protect ourselves?

Do we have:

- Administrative safeguards?
- Technical safeguards?
- Physical safeguards?

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Important Contacts

- Who is in charge of responding to the crisis?
- Who needs to be contacted in the event of an attack or disaster?
- Who can do repairs, or supply needed materials?
- Who will speak for the company to victims, clients, employees or the press?
- Who can you call for help?

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Determine Threat Levels

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How Do We Find Our Organizational Threat Level?

Tools of the trade:

- Risk Assessment.
- Business Impact Analysis.
- Privacy Impact Assessment (if collecting personal information).

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Risk Assessment vs. Business Impact Analysis

Risk Assessment

- Threats & vulnerabilities.
- The likelihood and impact of an attack.
- What do we **value** most and how do we **reduce risk**?

Business Impact Analysis

- The effect of interruptions.
- The operational and financial impacts from major disruptions?
- How **fast** do you need to recover, and what can you **afford?**

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Problem Classification

Establish an internal code for identifying the threat level.

Problem	Signs/Symptoms	Risk Level	Time Objective	Class
Ransomware Bad Bunny	Message on screen, data locked	High. Infectious to rest of network.	1 hour	Class A
Database C Downtime	Staff unable to log in.	Low. Rarely used resource.	1/2 day	Class C

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Identify Strategies

Pulling it all together

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Problem Solving: Tactical Response and Recovery

- What response options have been identified?
- Ways you can speed up recovery?
- Map it out:

Threat	Prevention	Response	Recovery

Communications and Public Relations

- A crisis communication strategy is a must!

Should include:

- Holding statements & social media response.
- Is there a time requirement for reporting?
- Who does the talking? Who *doesn't*?

- Consider strategies for a social media PR crisis in your disaster recovery plan.

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Plan: The Codified, Selected Strategy

- **Make the call**: which strategies and tactics will be used in an emergency.
- Document design: consider checklists, summaries, or spreadsheets.
- How does the information get found **fast**?

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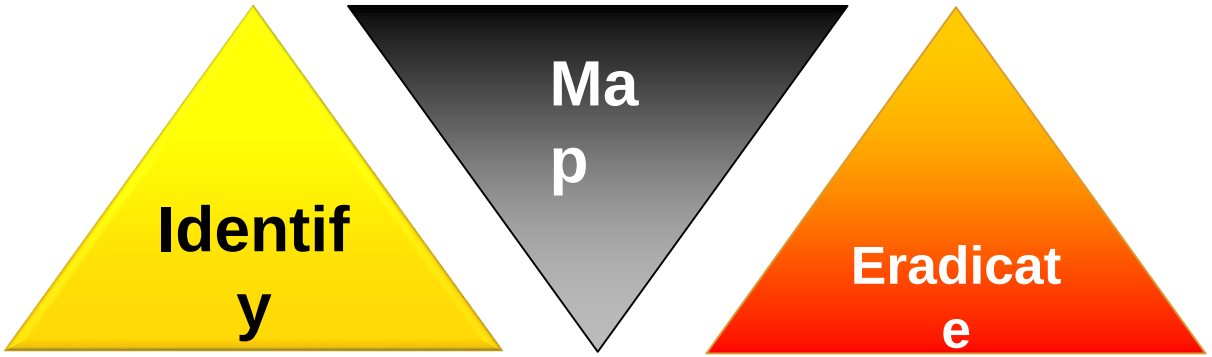
The Importance of Triage on the Cyber Attack Battlefield

- **Triage**: the ability to sort problems and allocate limited resources based on need or benefit.
- Determining the **order** of problem response.
- Komand Blog Method:



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Drills and Updates

- Update your Disaster Recovery Plan on a regular basis.
- Rule of I.T: don’t forget to test!
- Training: does everyone understand their role?

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Need More Help?
Existing Standards and Options

- *U.S. National Institute*: NIST SP 800-34
- *International Organization for Standardization*: ISO/IEC 24762
- *British Standard Institute*: BS 25777

- Disaster Recovery Services are available commercially.
- Be aware: does the DRS cover disaster relief, or data recovery?
- Consider a needs analysis before you outsource.

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