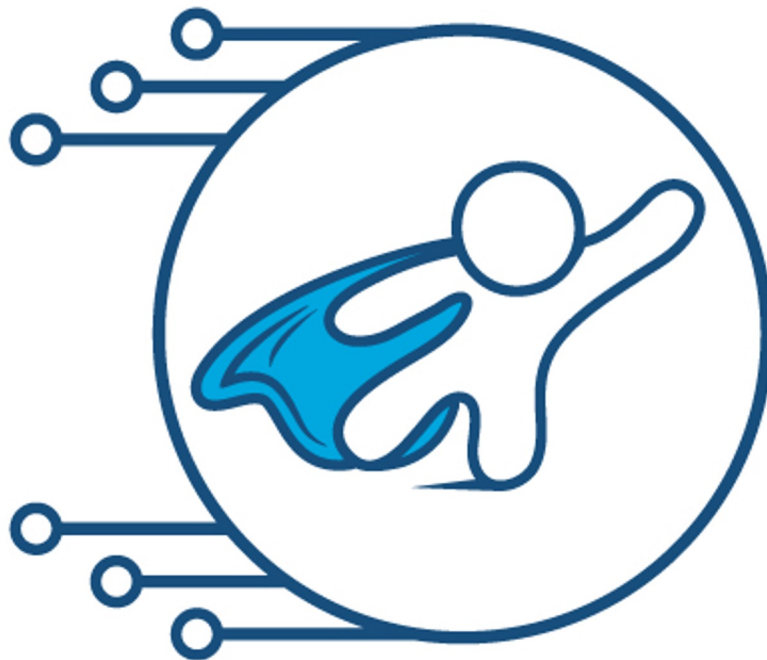


Blue Teams



INFOSEC WHEEL



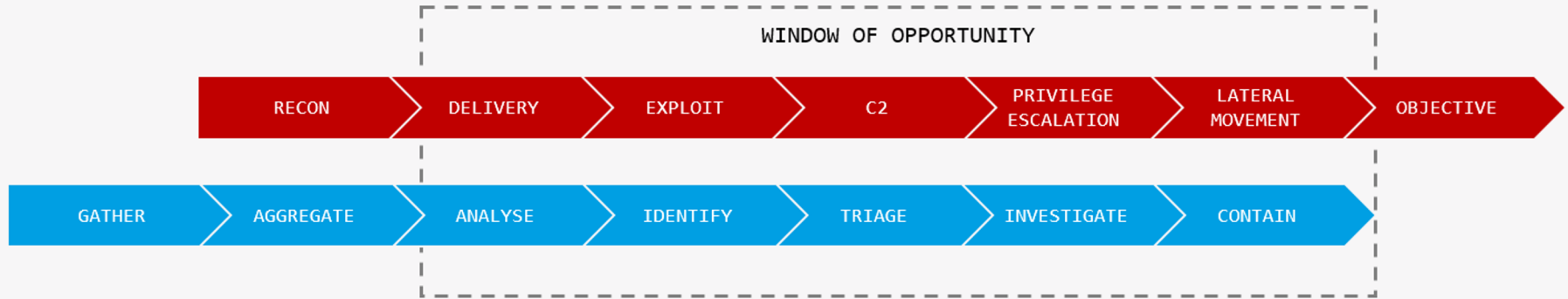


BLUE TEAM

- ✓ **Defensive Security**
- ✓ **Infrastructure protection**
- ✓ **Damage Control**
- ✓ **Incident Response(IR)**
- ✓ **Operational Security**
- ✓ **Threat Hunters**
- ✓ **Digital Forensics**



Blue team Incident workflow



The 5 phases in the incident response plan



1. Preparation
2. Detection & Analysis
3. Containment, Eradication, Recovery
4. Post-Incident Review
5. Update the plan !



Phase 3: Containment, Eradication & Recovery

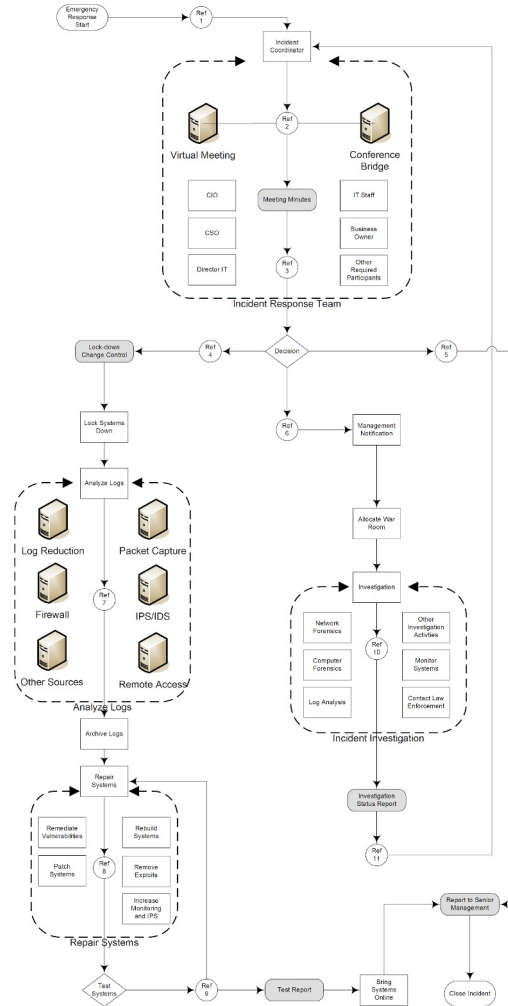


Protect the Present

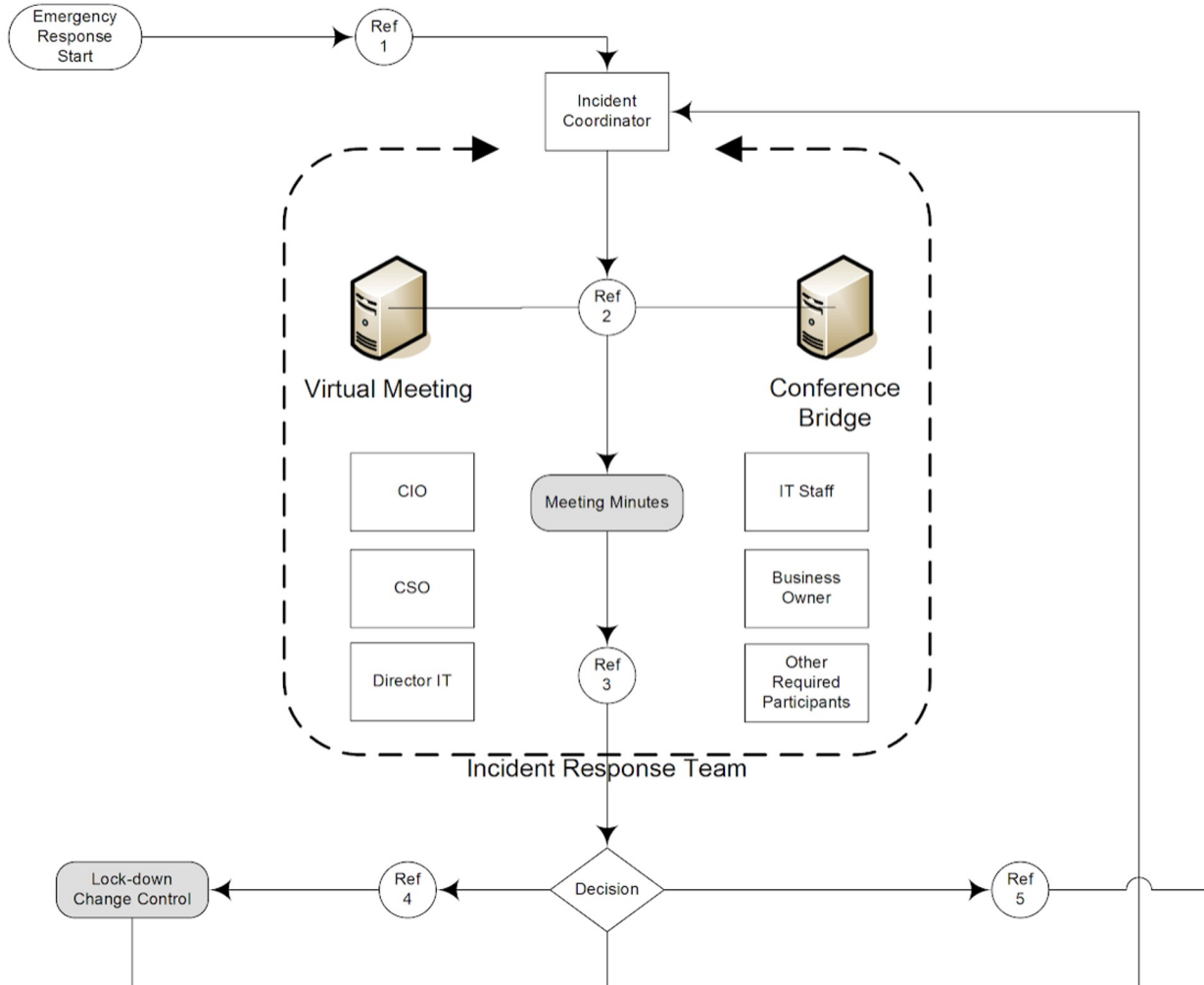
- Lock down systems
- Analyze logs
- Archive logs
- Repair/Rebuild systems
- Test Systems
- (repeat if needed)

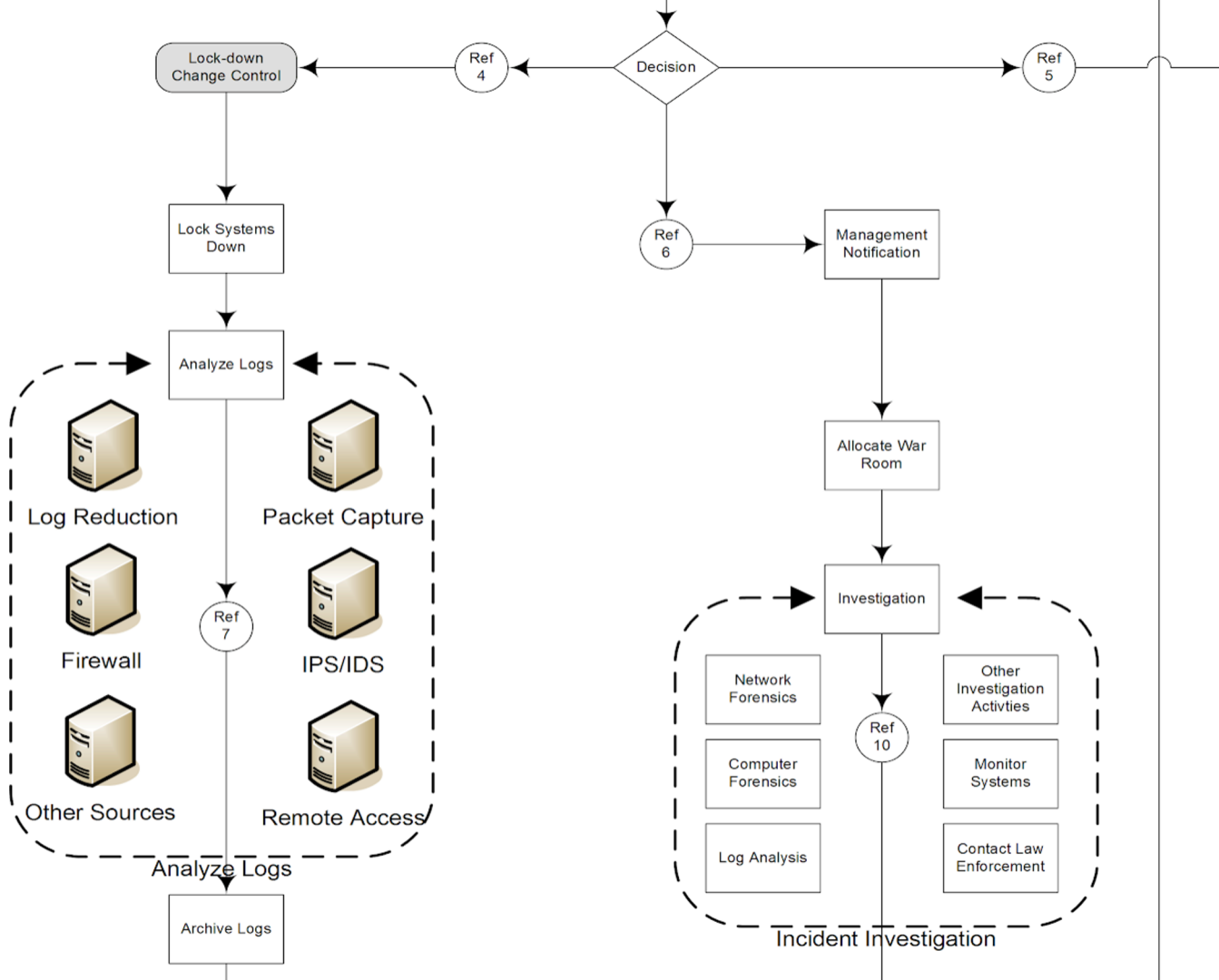
Recovered

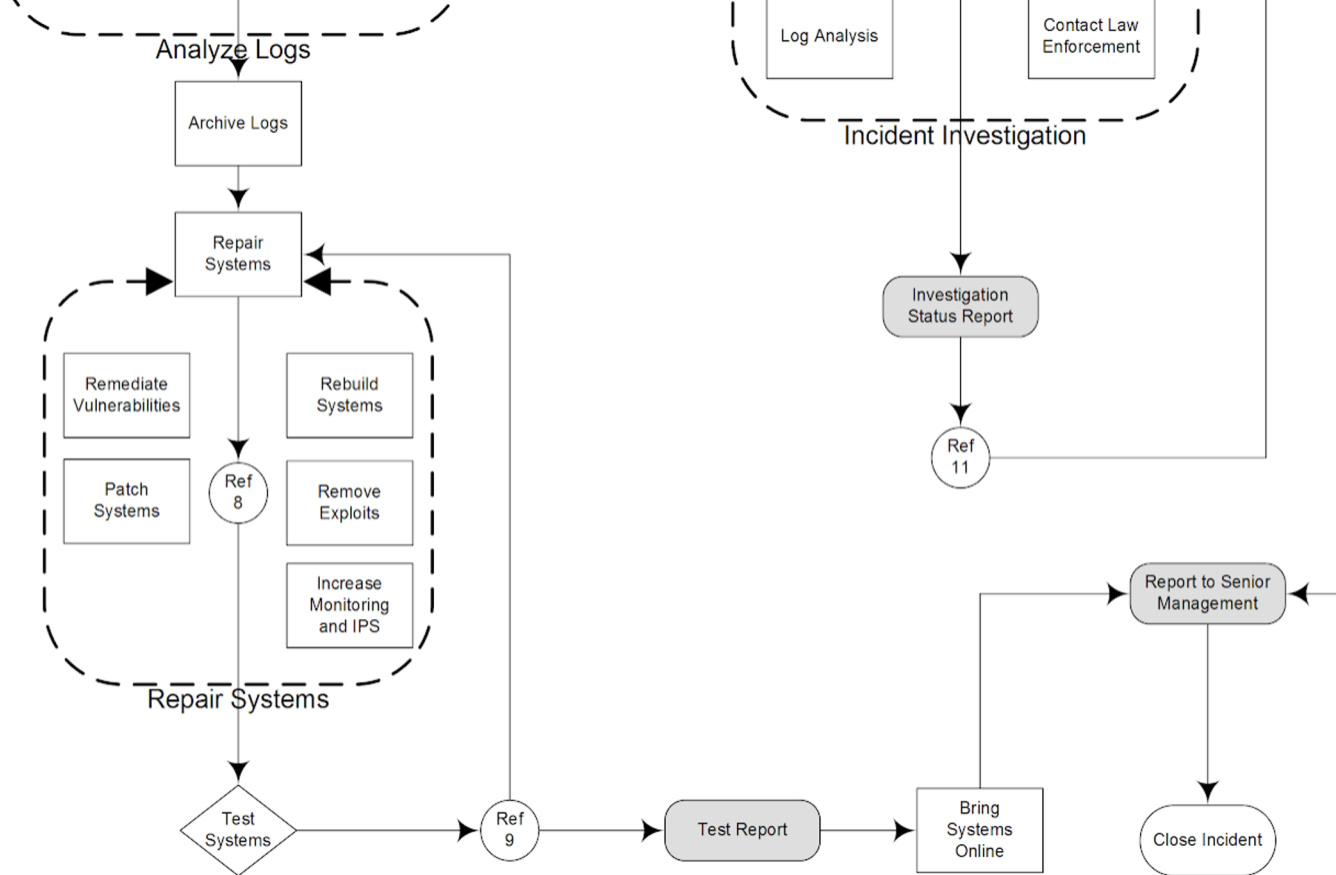
Emergency response detail



Emergency response detail







Phase 3: Containment, Eradication & Recovery



- Protect the future
 - Incident Investigation

Get the facts!

- Network forensics
- Computer forensics
- Log analysis



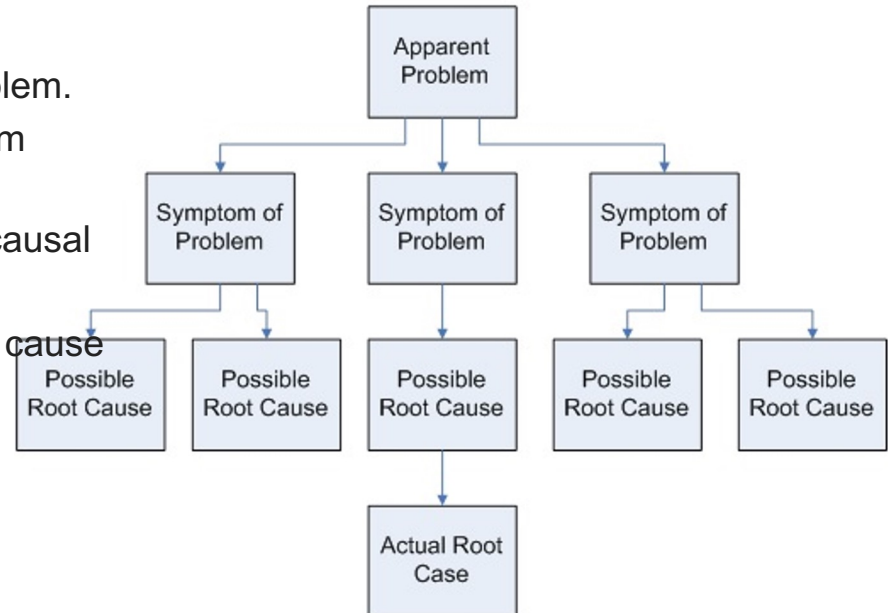
Phase 3: Containment, Eradication & Recovery



- Protect the future
 - Root Cause Analysis

- **Identify** and describe clearly the fault/problem.
- Establish a **timeline** (history of events) from normal situation until the fault/problem.
- **Distinguish** between the root cause and causal factors (e.g., using event correlation).
- Establish a causal graph between the root cause and the fault/problem.

Root Cause Analysis Tree Diagram



Phase 4 & 5: Post-Incident Review & update plan



Investigation status report

- Discusses by Incident Response Team
- When satisfied -> Send to management

- **When all is given the OK -> Incident closed**

Step 4 & 5: Post-Incident Review & update plan



- **Step 4 & 5 Post-Incident Review and update plan**
 - After-Action Meeting

Hold an after-action meeting with all Incident Response Team members and discuss what you've learned from the data breach.

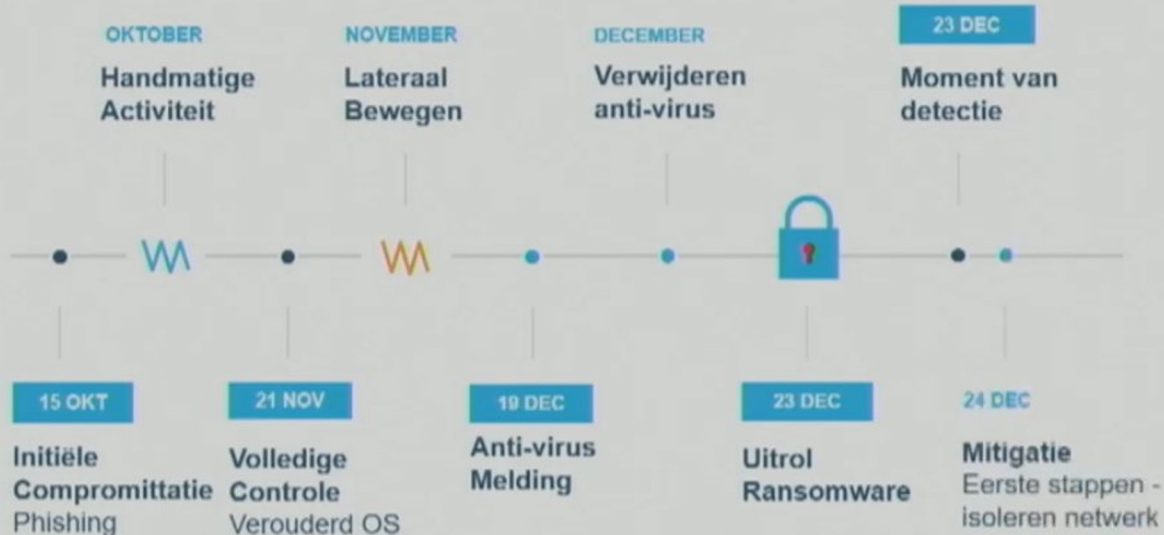
Determine what worked well in your response plan, and where there were some holes.

Questions to ask:

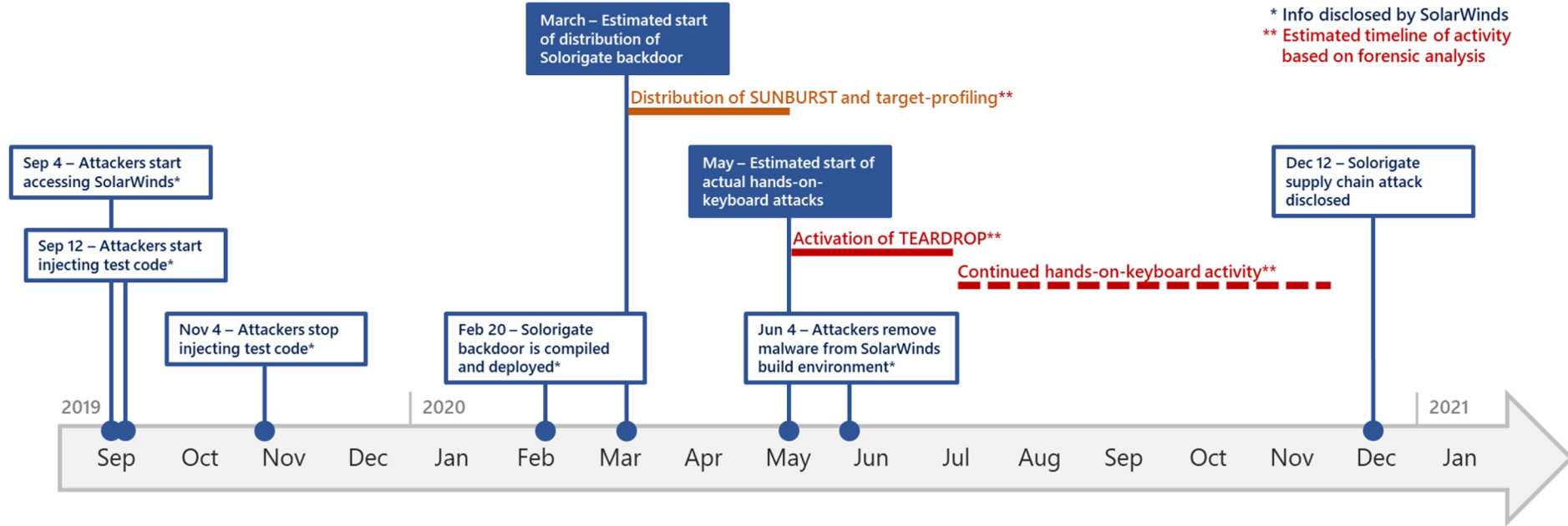
- What changes need to be made to the security?
- How should employee be trained differently?
- What weakness did the breach exploit?
- How will you ensure a similar breach doesn't happen again

Incident Response - example

Incident Tijdlijn



Solarwinds hack



Source: <https://www.microsoft.com/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/>

Pluralsight video's



PLURALSIGHT



Pluralsight video: [link](#)

Relevant : Digital Forensics: The Big Picture

Pluralsight video: [link](#)

Relevant : Digital Forensics: Getting Started with File Systems

Pluralsight video: [link](#)

Relevant : Getting Started with Memory Forensics Using Volatility

Pluralsight video: [link](#)

Relevant : Network Security Monitoring (NSM) with Security Onion