



Developing CSIRT Infrastructure

Toolset, Document for students

1.0
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1. What Will You Learn?

1.1 CSIRT Infrastructure

To learn what kind of software and hardware solutions could be used to provide a particular CSIRT service for a constituency.

2. Introduction

The teacher will give a presentation introducing and describing the CSIRT services defined by CERT/CC (see Table 1).

Reactive Services	Proactive Services	Security Quality Management Services
<ul style="list-style-type: none"> - Alerts and Warnings - Incident Handling <ul style="list-style-type: none"> - Incident analysis - Incident response on site - Incident response support - Incident response coordination - Vulnerability Handling <ul style="list-style-type: none"> - Vulnerability analysis - Vulnerability response - Vulnerability response coordination - Artifact Handling <ul style="list-style-type: none"> - Artifact analysis - Artifact response - Artifact response coordination 	<ul style="list-style-type: none"> - Announcements - Technology Watch - Security Audits or Assessments - Configuration and Maintenance of Security Tools, Applications, and Infrastructures - Development of Security Tools - Intrusion Detection Services - Security-Related Information Dissemination 	<ul style="list-style-type: none"> - Risk Analysis - Business Continuity and Disaster Recovery Planning - Security Consulting - Awareness Building - Education/Training - Product Evaluation or Certification

Table 1 CSIRT services by CERT/CC

The introduction will also explain the various diagrams below which are part of the tasks section of the exercise.

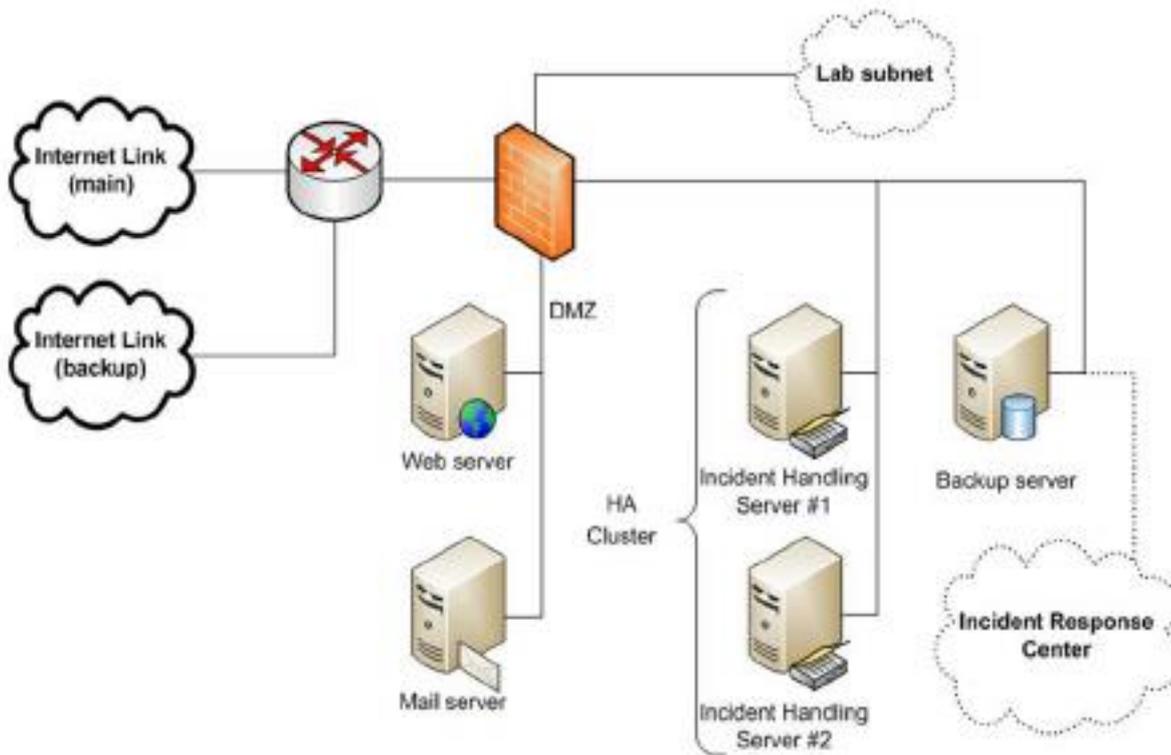


Figure 1 Simple (legacy) CSIRT network infrastructure

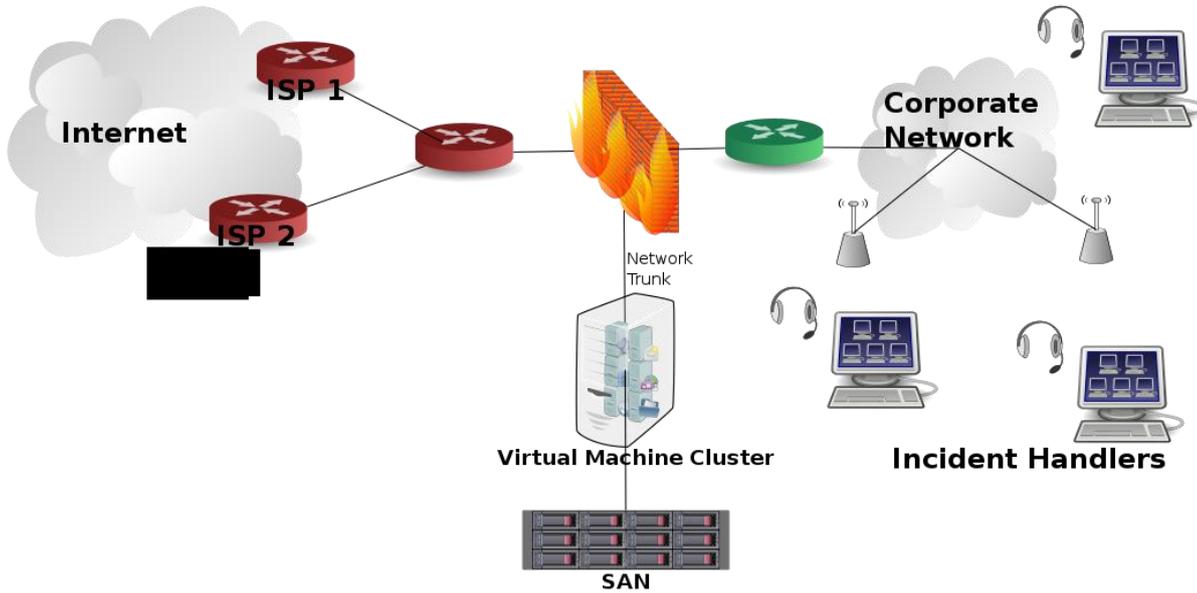


Figure 2 CSIRT infrastructure including virtualisation technologies

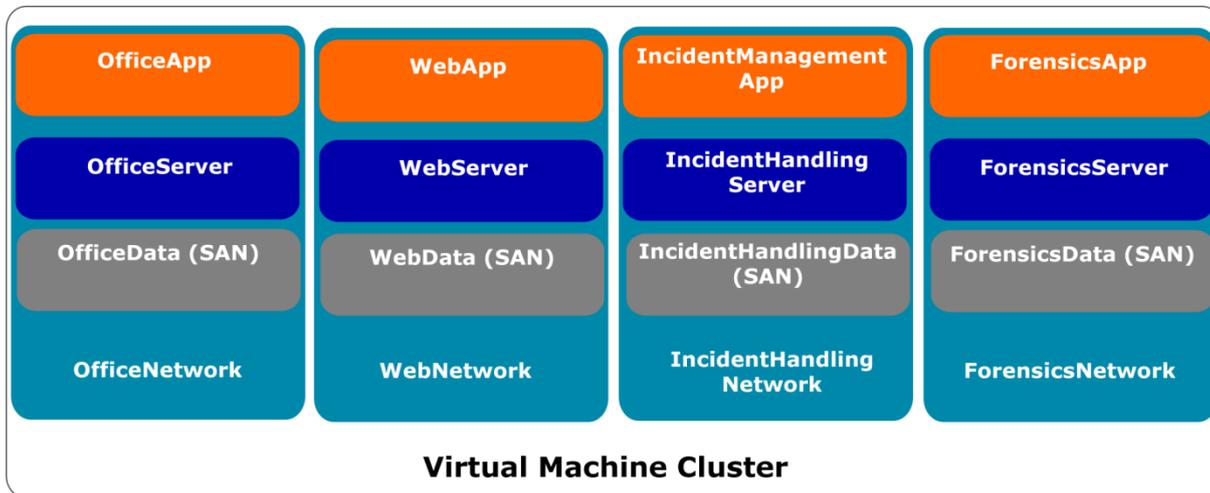


Figure 3 CSIRT infrastructure VM layers

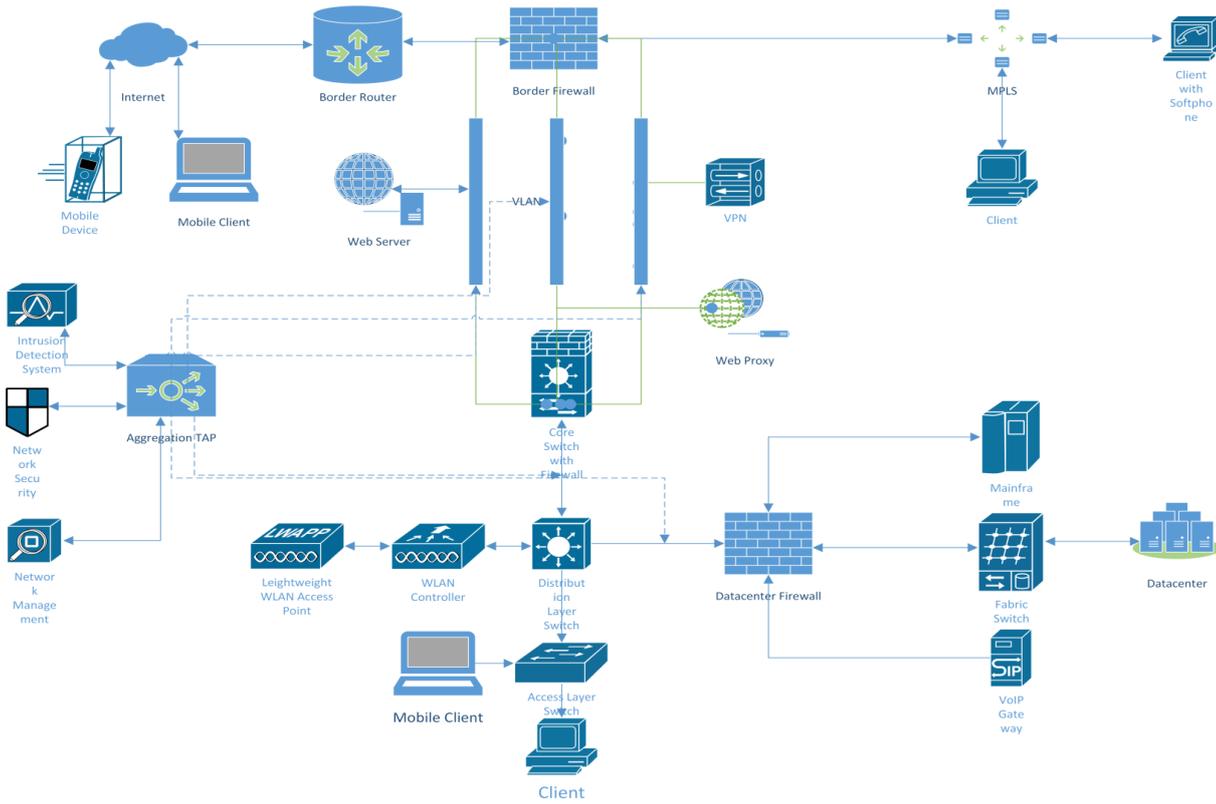


Figure 4 Enterprise scale network

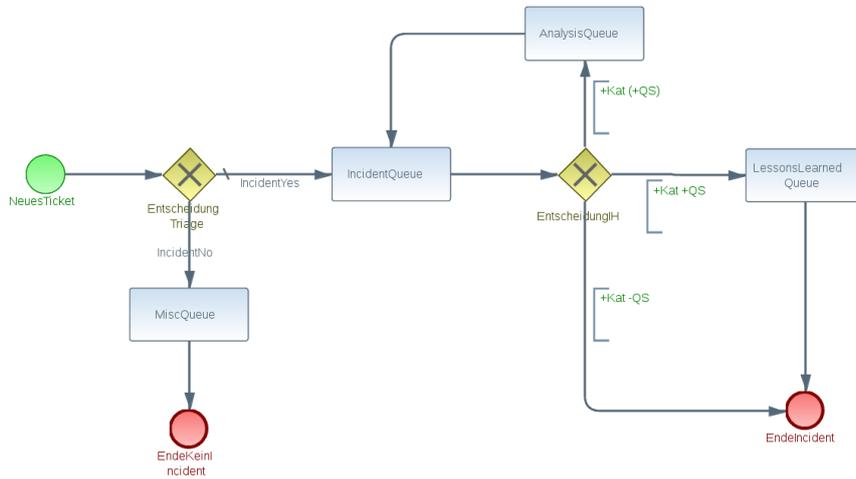


Figure 5 Incident response workflow

3. Exercise Tasks

3.1 **Task 1: Discuss the proposed infrastructures for the incident handling – incident analysis service**

The teacher will lead you through the task by providing questions focusing on certain core topics leading to a complete perspective of designing an infrastructure to support a CSIRT incident handling – incident analysis service.

3.2 **Task 2: Discuss the proposed infrastructure for 3-5 additional CSIRT services**

Use the table from the introduction to decide on further services and discuss/develop the required technical infrastructure and processes as done for the incident handling – incident analysis service in task 1.



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