



SETTING UP A SECURITY OPERATIONS CENTER (SOC) / CYBER DEFENCE CENTER (CDC)

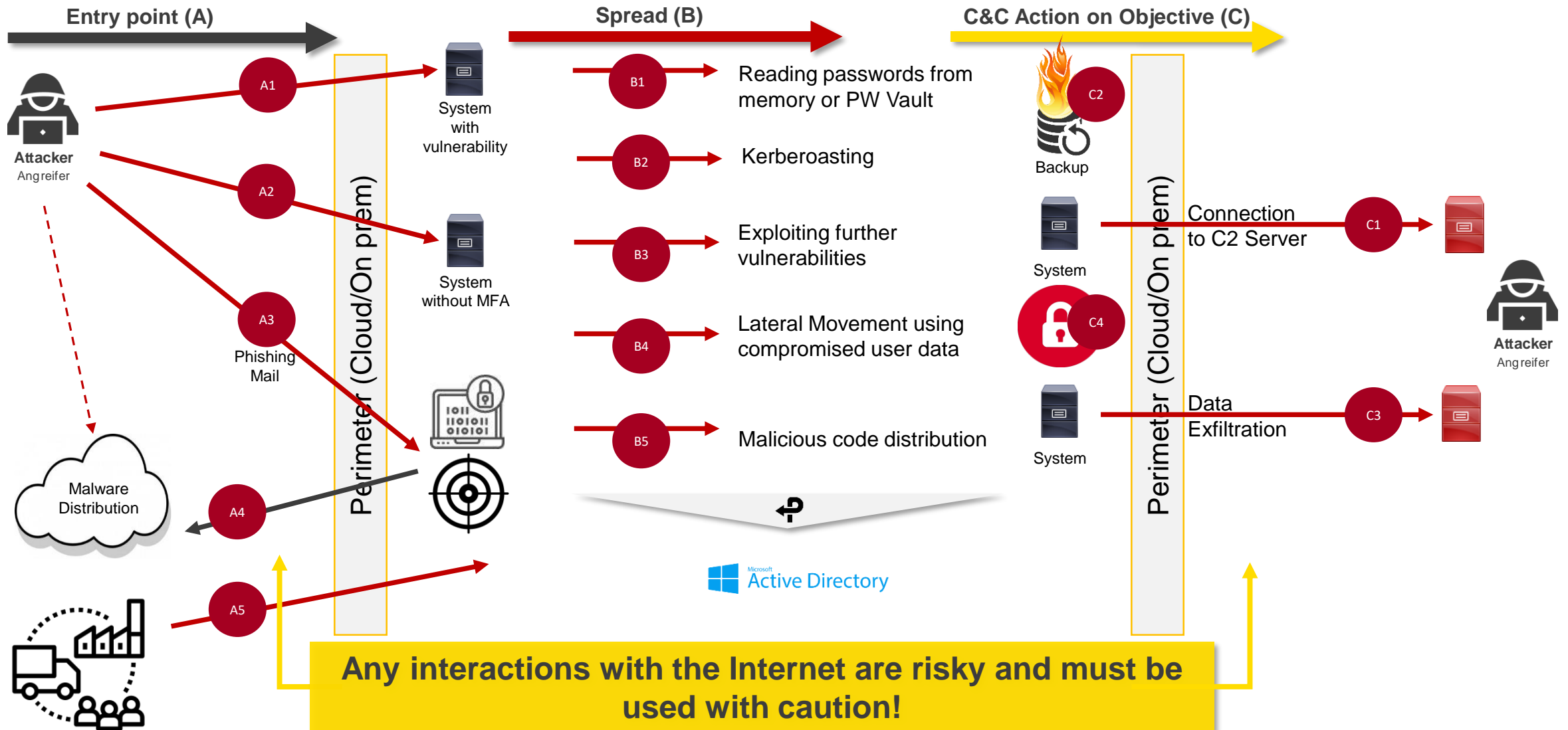
Ernesto Hartmann, Chief Cyber Defence Officer, InfoGuard AG



The goal of a SOC/CDC is to identify attack chains and stop them with an adequate response before any damage is occurs.

What are attack chains?

Anatomy of ransomware attacks



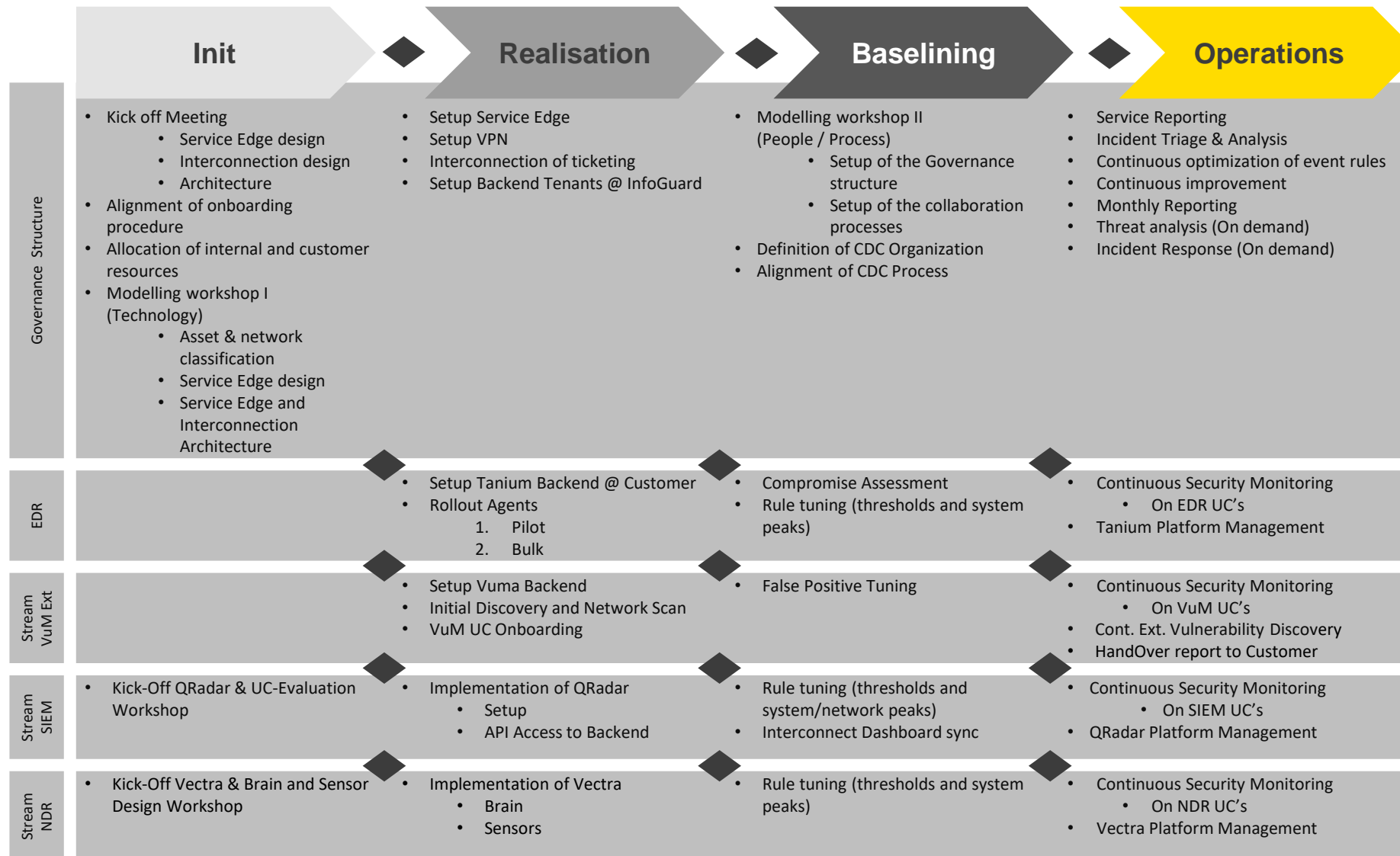


CUSTOMER ONBOARDING

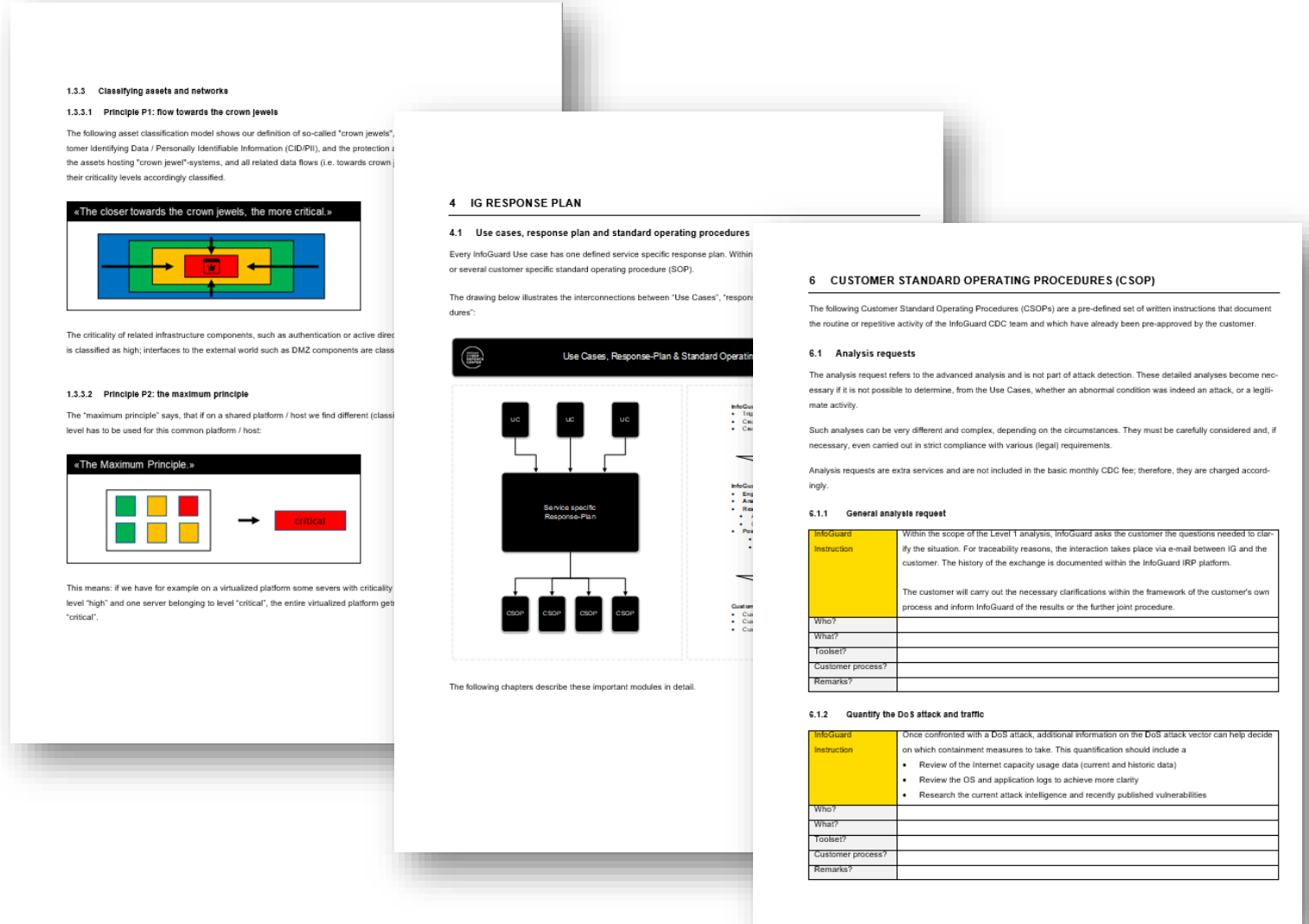
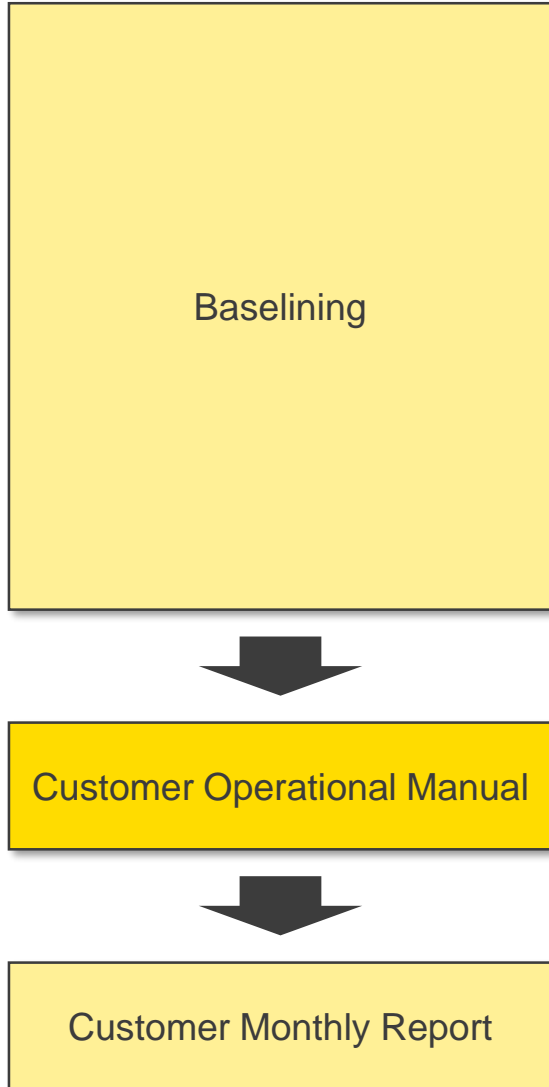
 **ISO 27001**
ZERTIFIZIERT

 **7x24**

Projectplan – This is how we bring you on board!



Baselining -> Operational manual



Service deliverables

Operations -> Monthly report

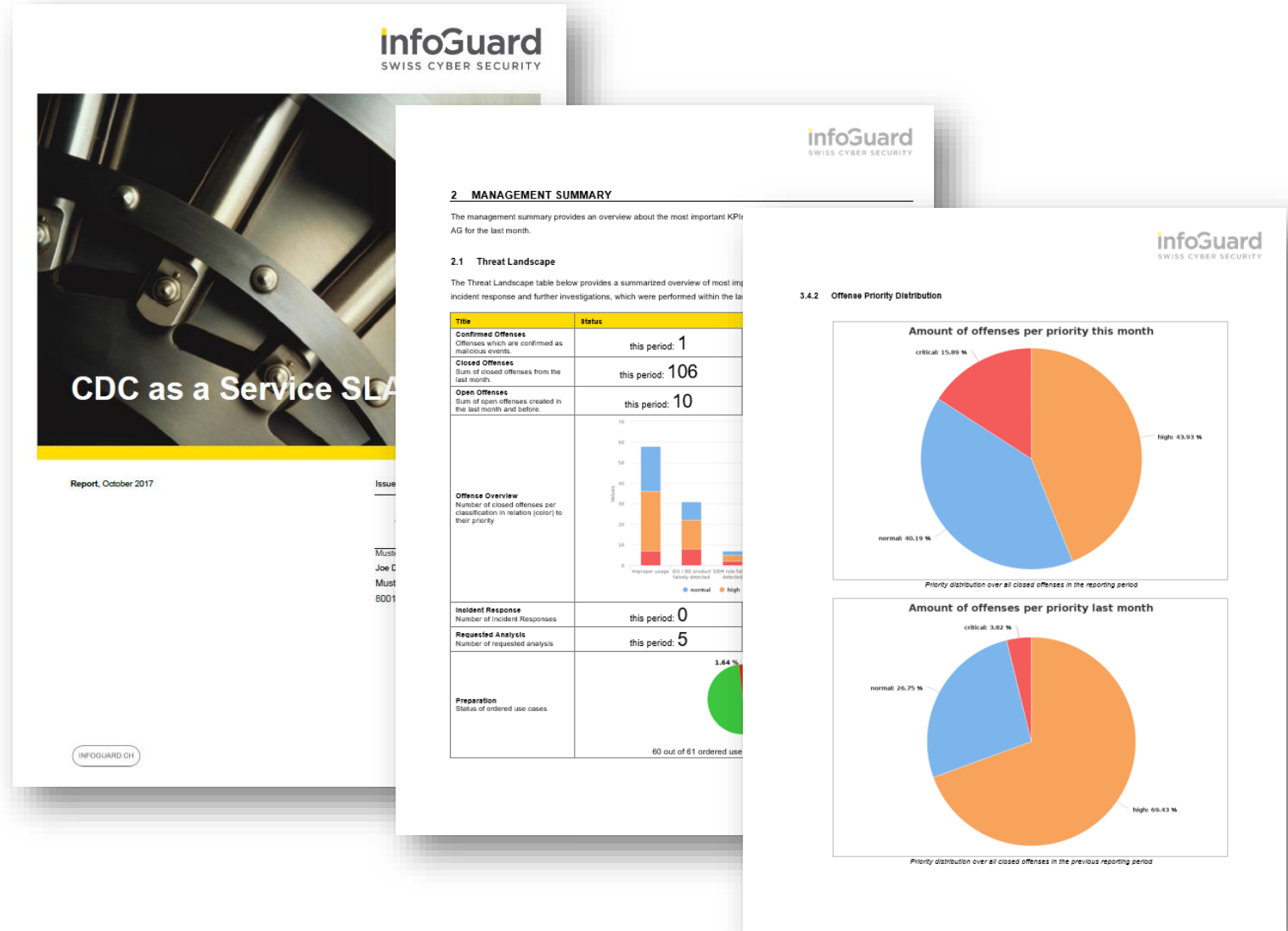
Operations



Customer Operational Manual




Customer Monthly Report





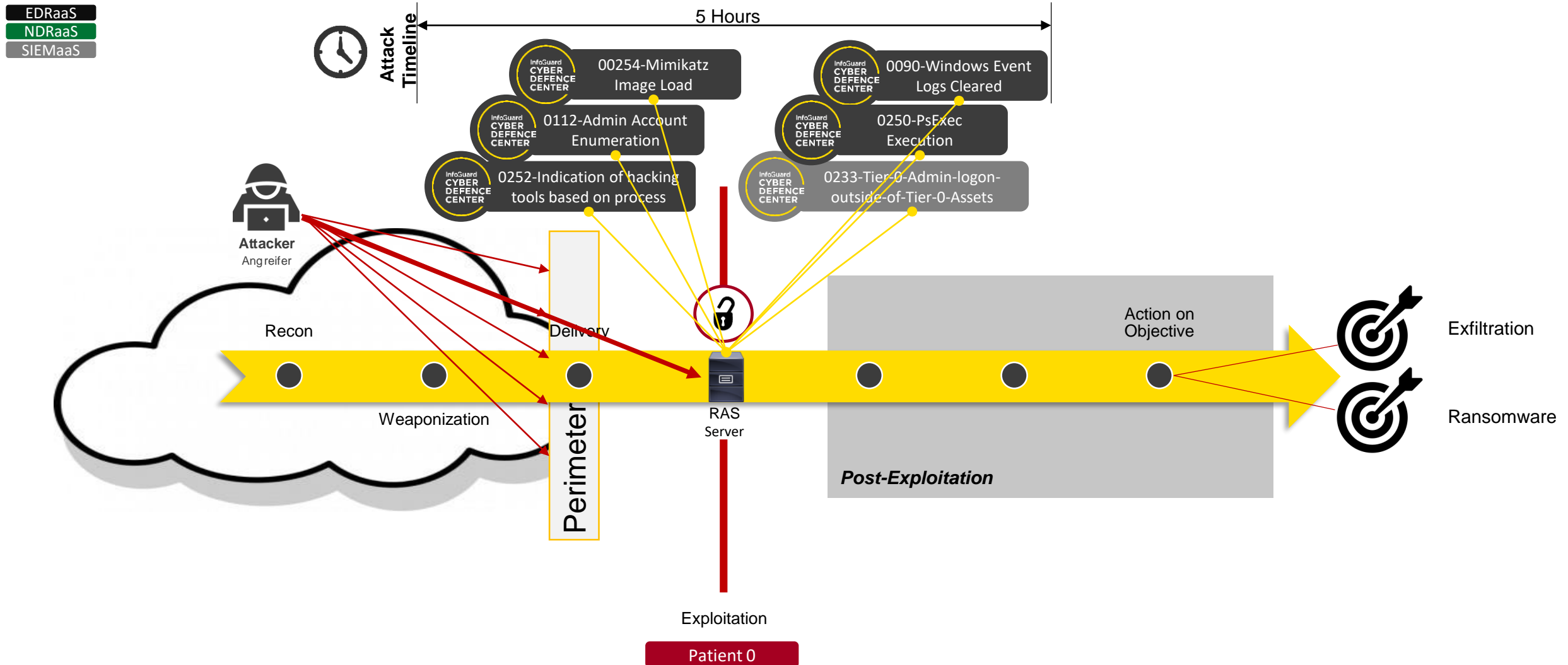
A Security Information and Event Management (SIEM) centric approach does not work! We need to have the ability to act quick in case of an attack.

 CDC SERVICE	CDC CAPABILITIES					
	THREAT PREVENTION	THREAT DETECTION	BASIC VERIFICATION	ADVANCED VERIFICATION	CONTAINMENT	ERADICATION
IR as a Service		X	X	X	X	X
TH as a Service		X	X	X	X	
EDR as a Service	X*	X	X	X	X	X
CDR & NDR as a Service		X	X			
SIEM as a Service		X	X			

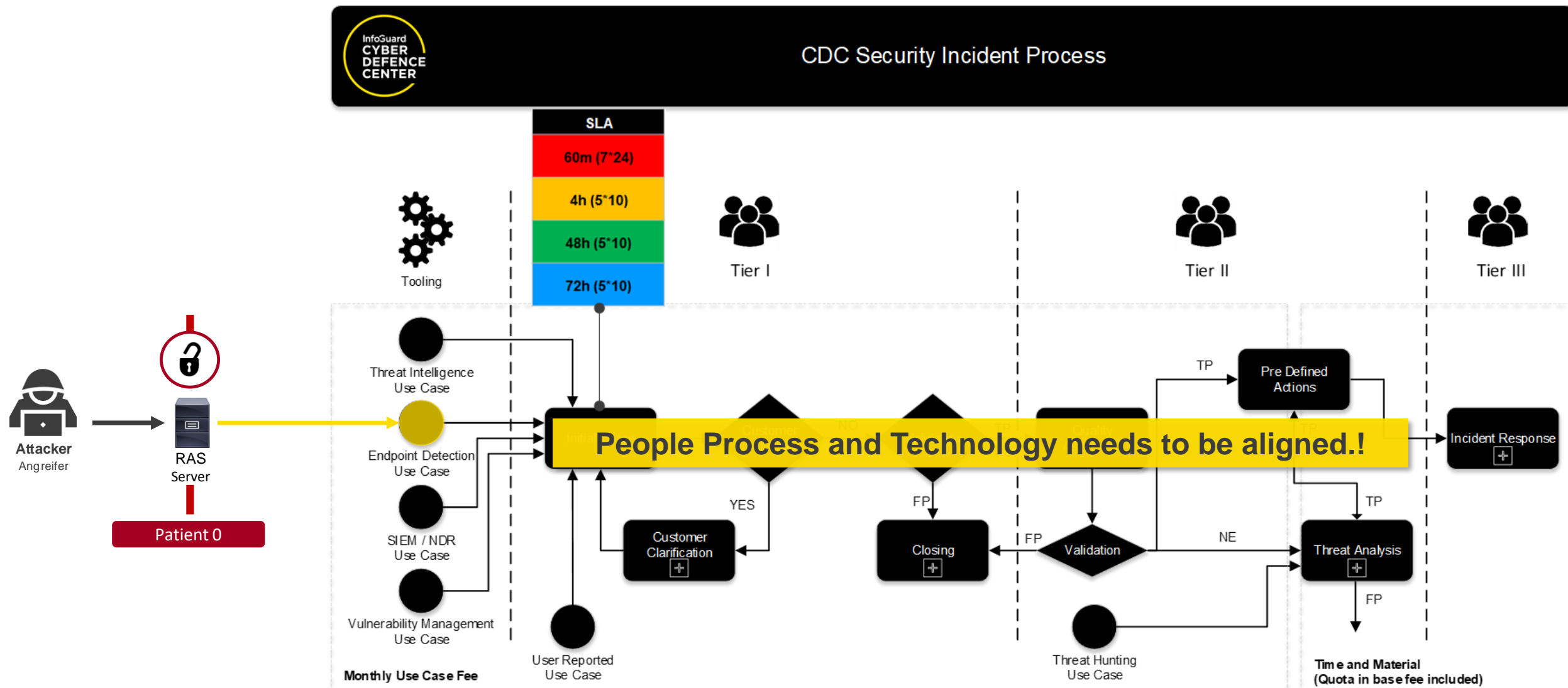
- **Threat Prevention** – the capability to prevent threats
- **Threat Detection** – the capability to detect threats
- **Basic Verification** – verification of threat alerts based on pre-collected data
- **Advanced Verification** – the capability to collect further data for threat analysis
- **Containment** – the capability to execute remediation actions such as client isolations
- **Eradication** – the capability to clean infected systems

* Only with an EPP/EDR combined Agent

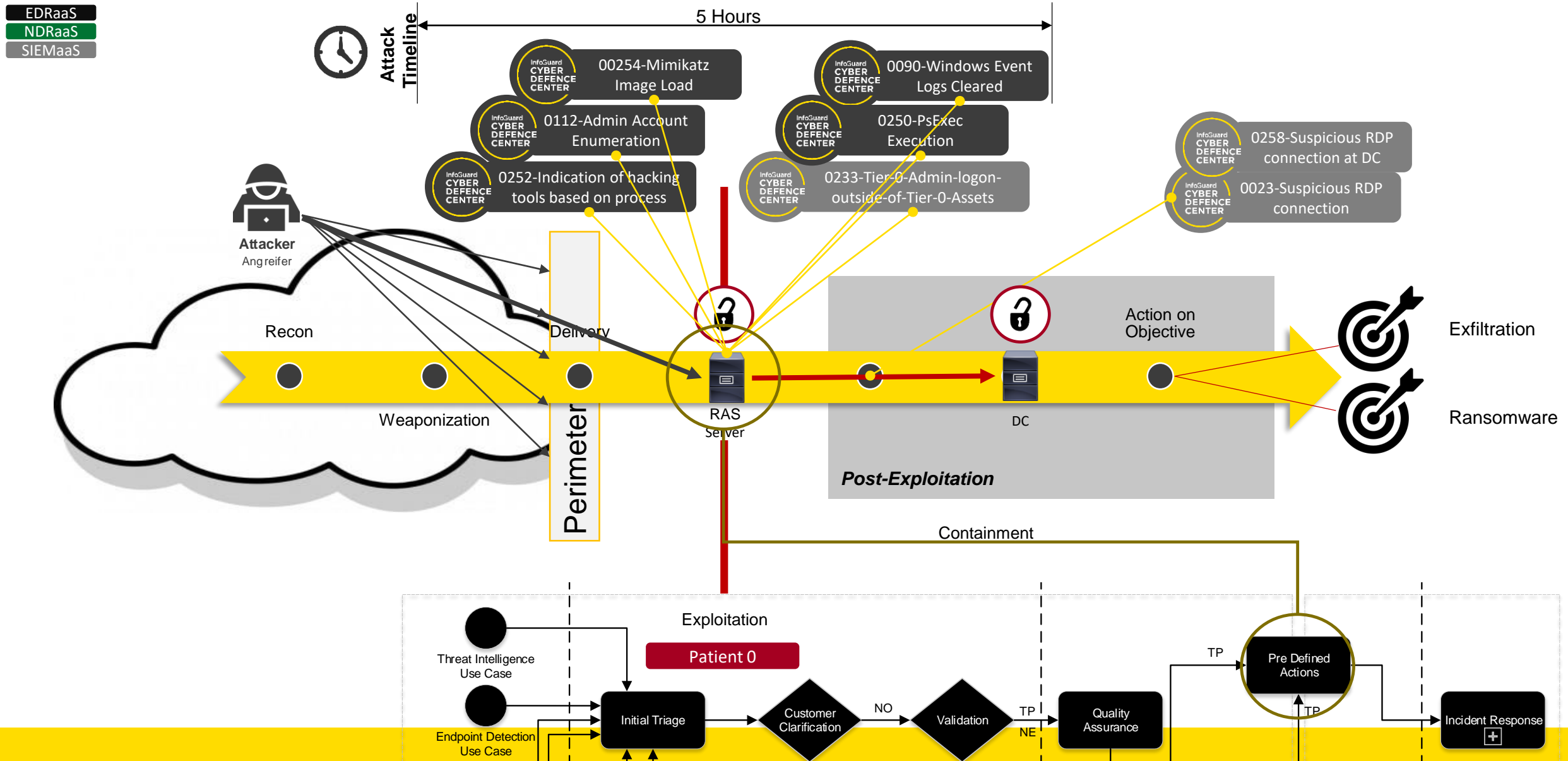
The attackers land on an operating system after the initial intrusion!



The attack chain must be interrupted as quickly as possible!

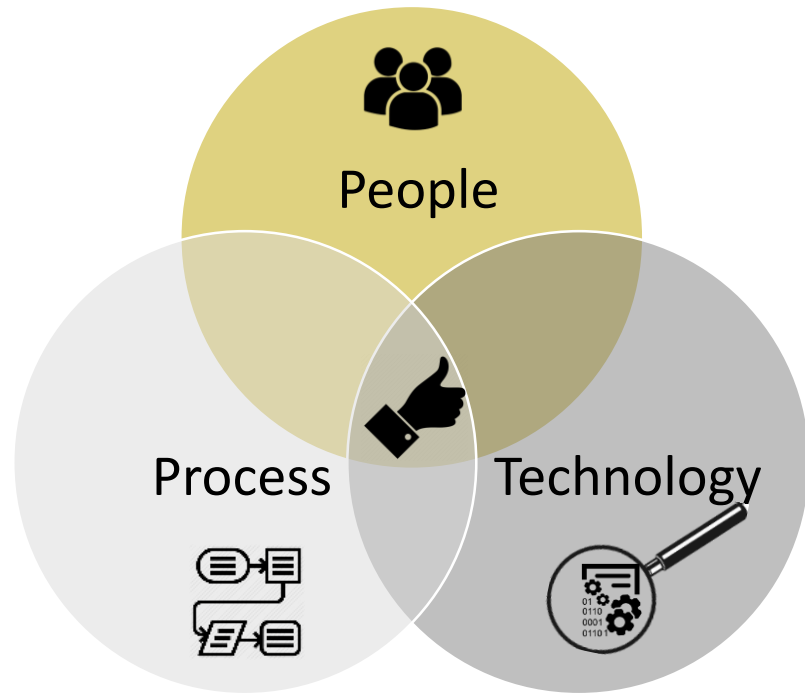


If the attack chain is not interrupted, the attackers move laterally.



Do's, Don'ts and pitfalls

A few words in conclusion



A Cyber Defence Center can detect and prevent cyber-attacks.

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