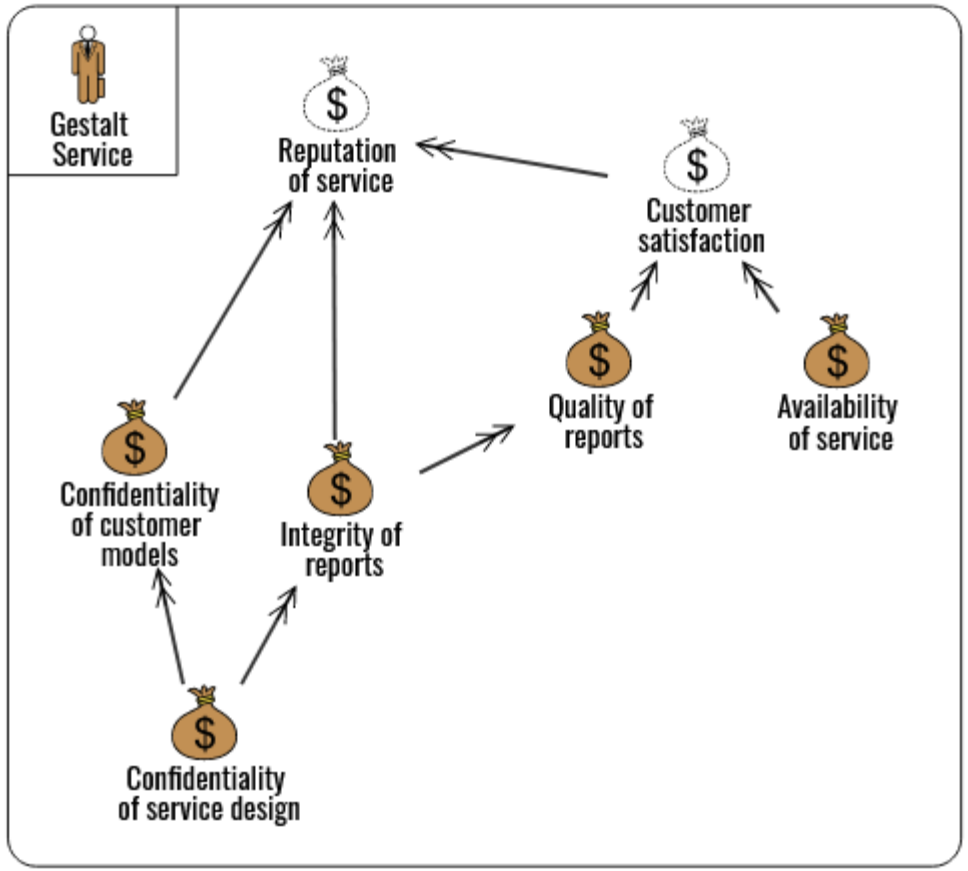
SOLUTION PROPOSAL

Oblig-III 2020

Question I: Asset diagram



Question II: Qualitative scale for "reputation of service"

Consequence value	Description
Critical	Scandal directly involving service making the headlines in most national newspapers and news channels
Major	Critical article/coverage involving the service published in one or two national newspapers or news channels
Moderate	Critical technical article/coverage involving the service published in a news paper like Computer World, Teknisk Ukeblad
Minor	Considerably more than average critical posts on social media; various new groups/treads created addressing the issue
Insignificant	Slightly more than average critical noise on social media.

Question III: Quantitative scale for "confidentiality of service design"

Consequence value	Description
Critical	(a,b,c) where a>1
Major	(a,b,c) where a=1
Moderate	(a,b,c) where a=0 and b>9
Minor	(a,b,c) where a=0 and 10>b>1
Insignificant	(a,b,c) where a=0 and b=0

Use a triple to measure the spreading of service design to unauthorized humans

(a,b,c) = (number of malicious threats, number of non-malicious external threats, number of non-malicious internal threats)

Ordering: (a,b,c)>(a',b',c') if (a>a') or (a=a' and b>b') or (a=a' and b=b' and c>c')

Question IV: Quantitative interval scale for "availability of service"

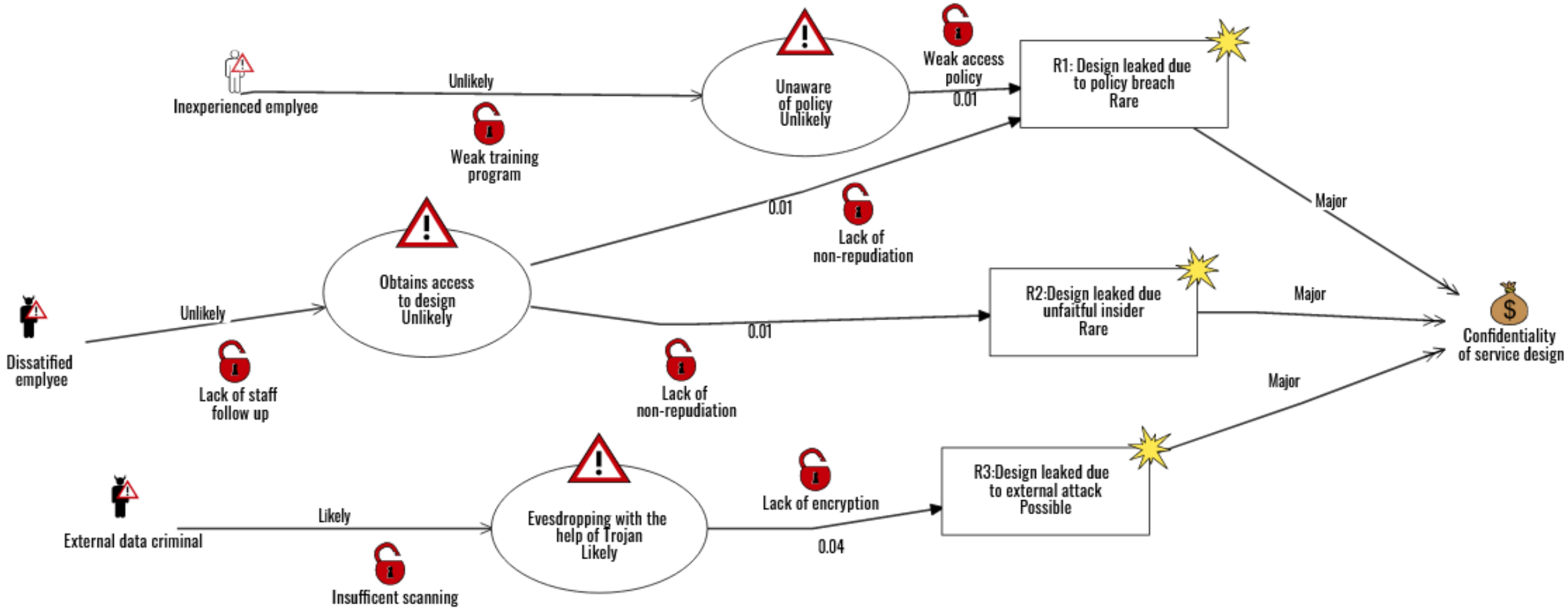
Consequence value	Description
Critical	<90,∞]
Major	<30,90]
Moderate	<5,30]
Minor	<1,5]
Insignificant	[0,1]

Measures continuous downtime in minutes

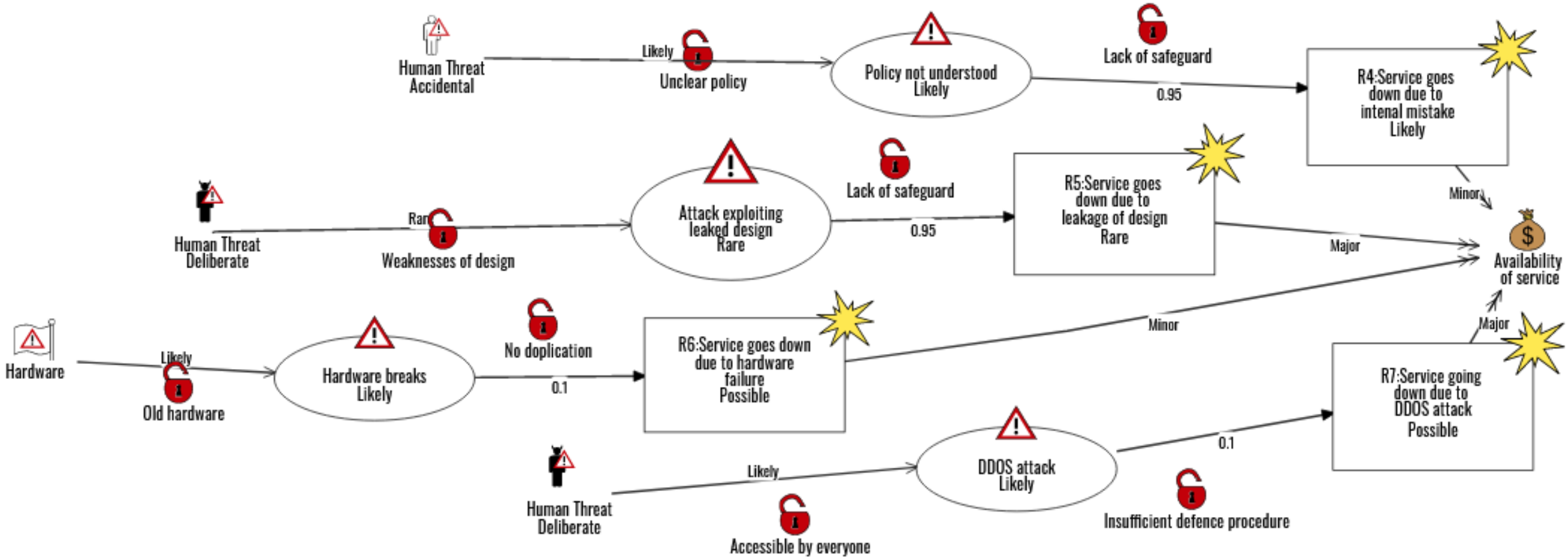
Question V: Quantitative interval scale for "availability of service"

Frequency value	Description
Common	<12:1y,∞:1y]
Likely	<1:1y, 12:1y]
Possible	<0.1:y,1:1y]
Unlikely	<0.01:1y,0.1:1y]
Rare	[0:1y,0.01:1y]

Question VI-a: Threat diagram for "confidentiality of service design"



Question VI-b: Threat diagram for "availability of service"



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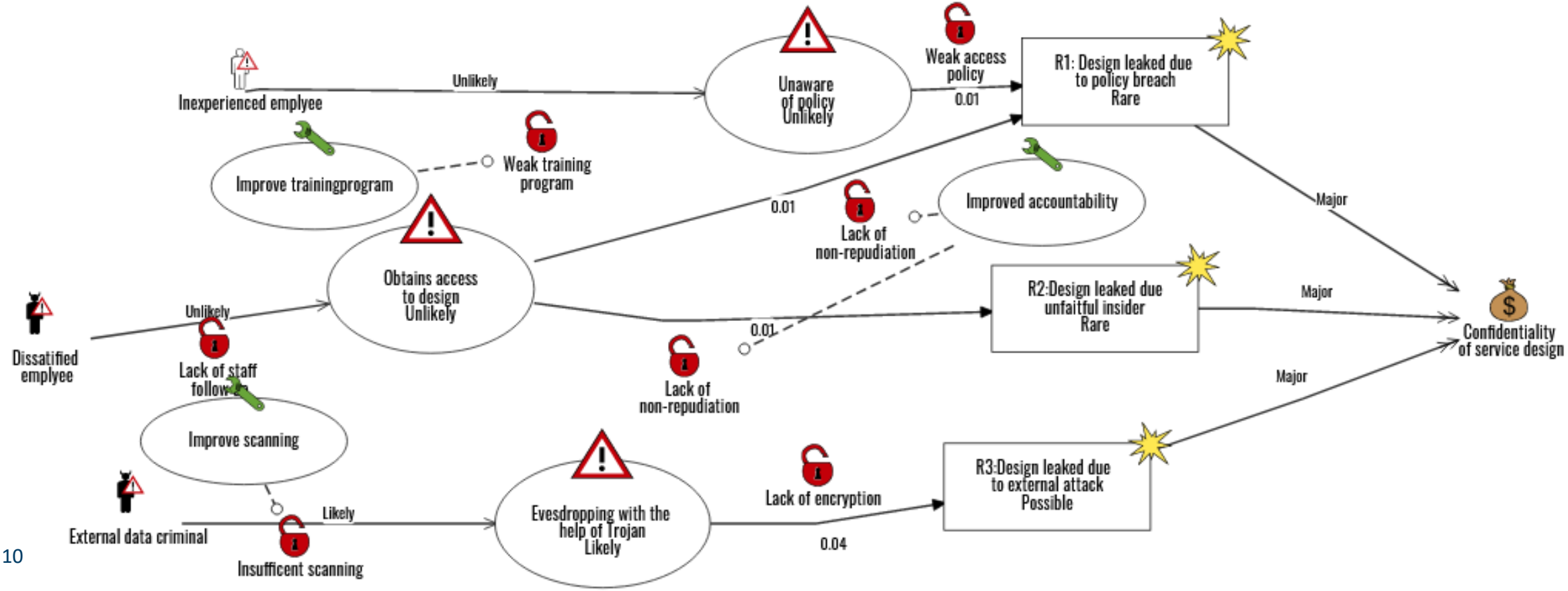
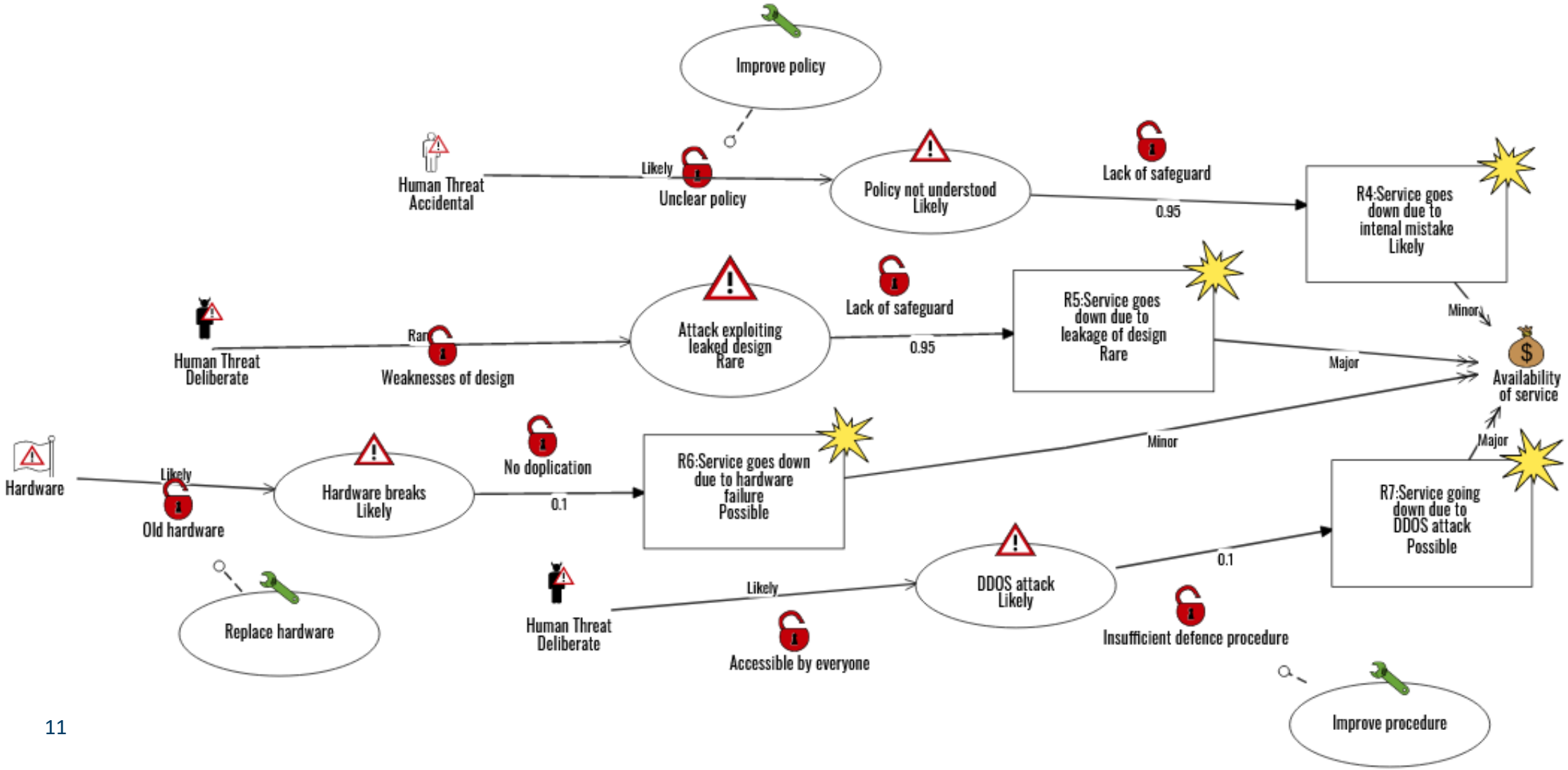
Question VII: Present the identified risks in a risk-matrix

	Rare	Unlikely	Possible	Likely	Common
Critical					
Major	R1, R2, R5		R3, R7		
Moderate					
Minor			R6	R4	
Insignificant					

Question VIII-a: Treatment diagram for "confidentiality of service design"



Question VIII-b: Treatment diagram for "availability of service "



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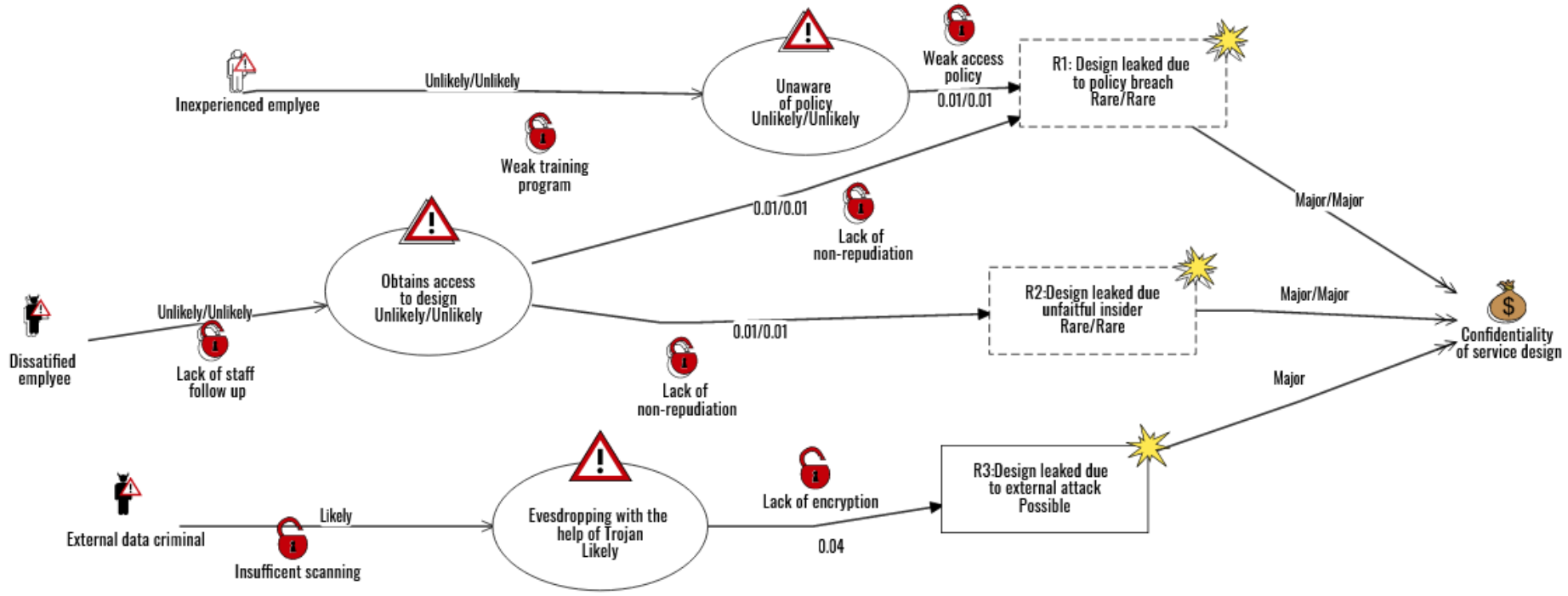
Question IX-a: Before-after diagram for "confidentiality of service design"



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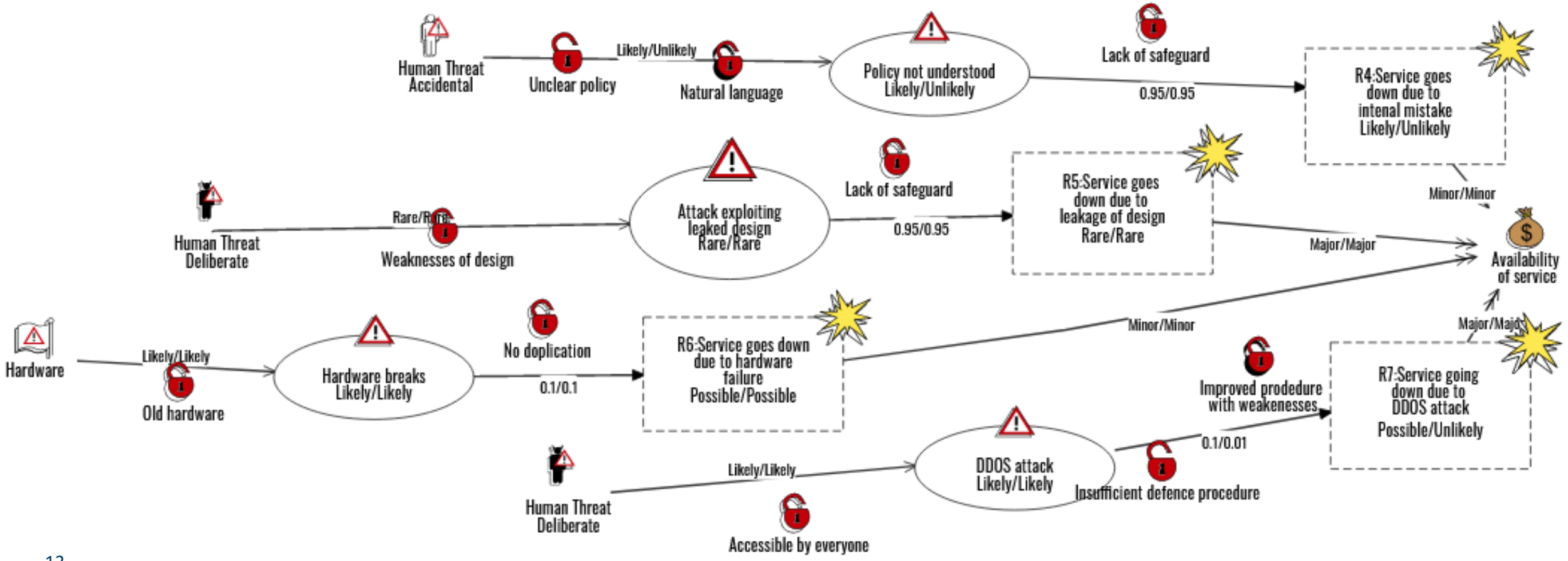
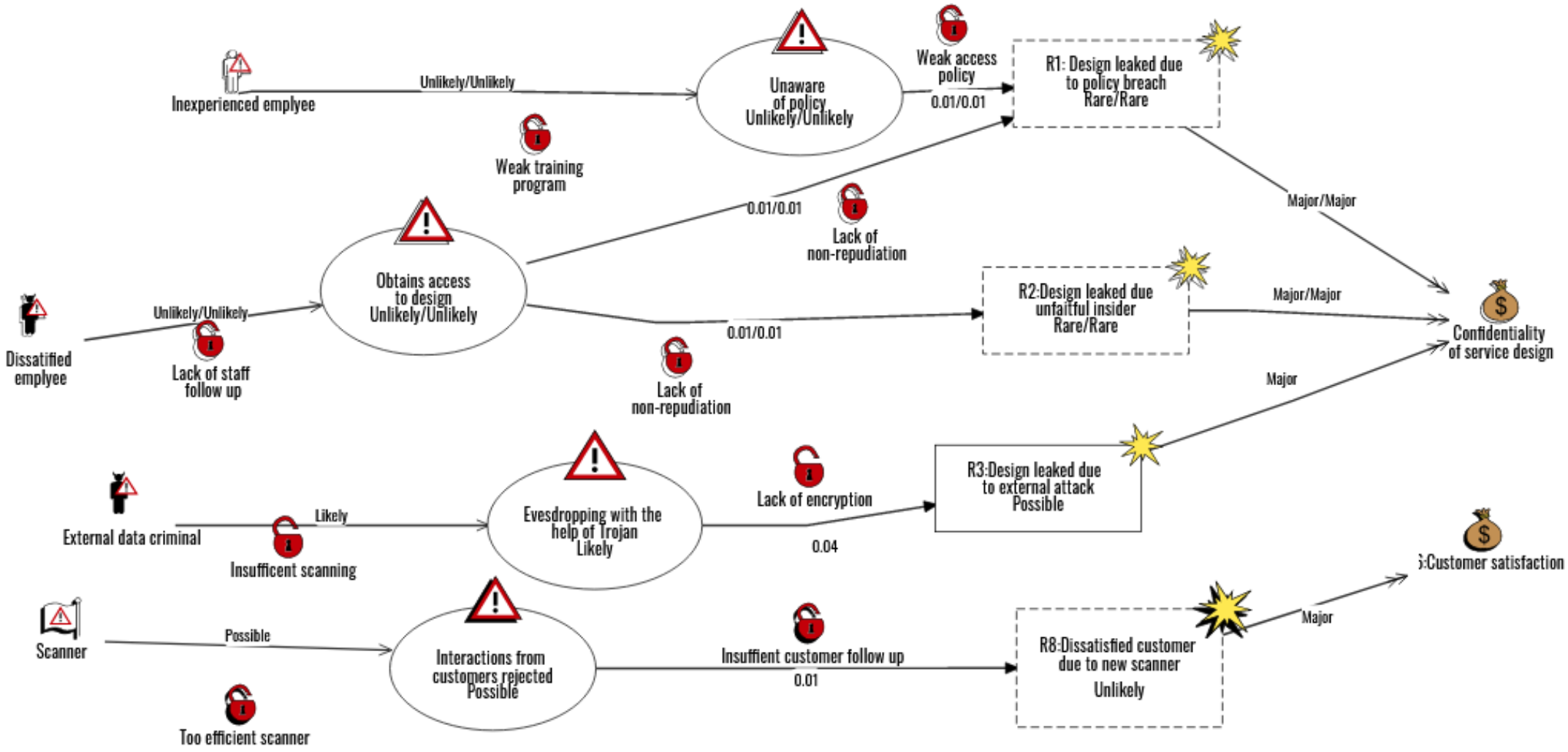
Question IX-b: Before-after diagram for "availability of service "



Question X-a: Updated Before-after diagram for "confidentiality of service design"



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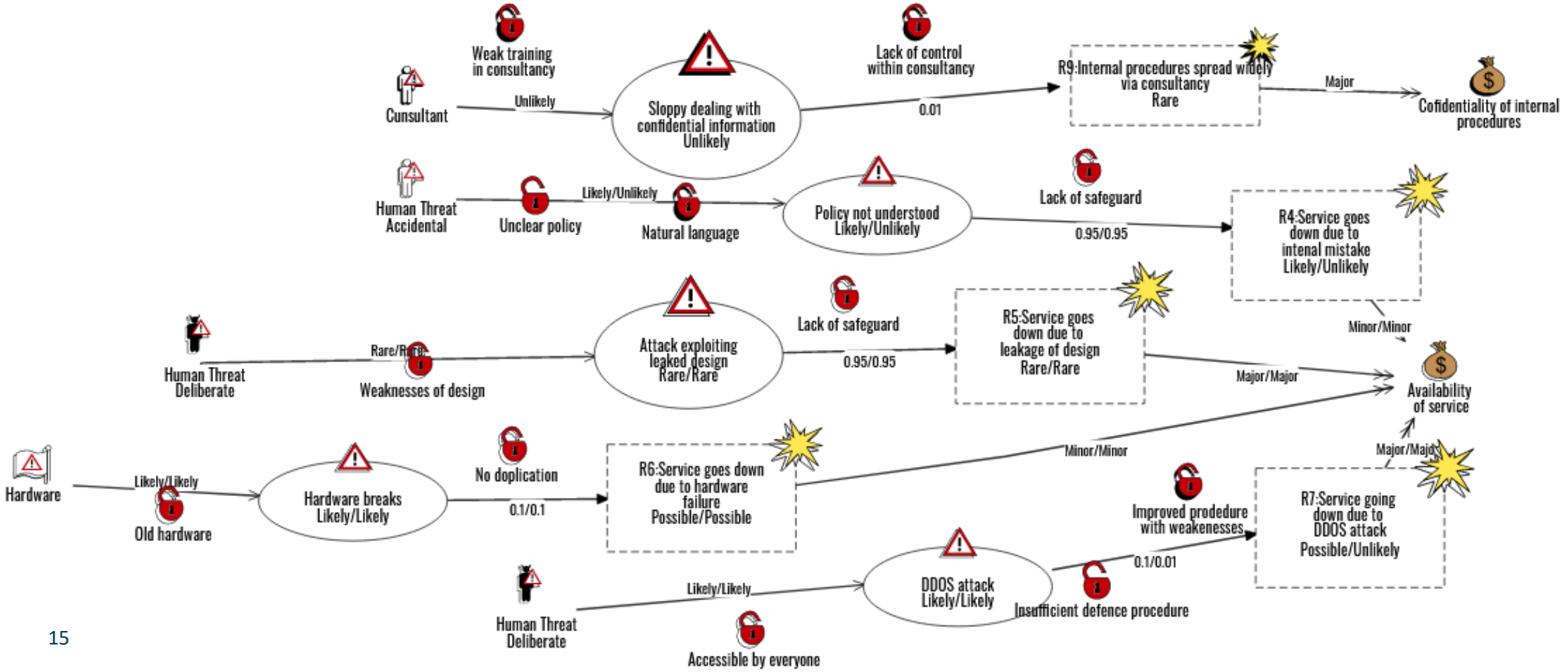
Question X-b: Updated Before-after diagram for "availability of service"



Question XI: Updated risk-matrix

	Rare	Unlikely	Possible	Likely	Common
Critical					
Major	R1, R2, R5, R9	R7, R8			
Moderate					
Minor		R4	R6		
Insignificant					

SINTEF

70 år

1950-2020

Teknologi for et bedre samfunn