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# Assess and Communicate the Risk or Business Impact



Report

# Section Four Exercise

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- The red team has analyzed risk(s); how should the risk(s) be communicate to the homeowner?
- ③ *(Assess and communicate the risk or business impact)*
- The homeowner wants to know – how secure their home is, and how that impacts their business question in terms of exposure to loss.
- ④ *(Understanding the customer's business questions)*
- **Exercise: In your group, use the handouts from SecurlTree and determine the best method to communicate risk to the homeowner.**

# Assess Risk

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- Simply identifying the risks is not always sufficient
- The RED TEAM LEAD must also assess the risks within the context of the effort
- Illustrative methods of assessing adversary risk include:
  - ad hoc judgment,
  - expert judgment,
  - decision analysis,
  - modeling and simulations, and others.

# Communicate Insights

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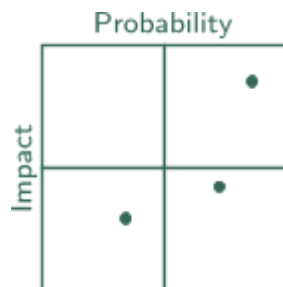
- Communicating insights can be challenging
- The RED TEAM LEAD must communicate the results of the risk analysis to the customer
- The goal should be to communicate the problems and tradeoffs well; desirable traits include:
  - completeness, consistency, clarity, simplicity, and traceability (within the red team assessment and risk analysis)
- Technical content may not be appropriate

# Communication Techniques

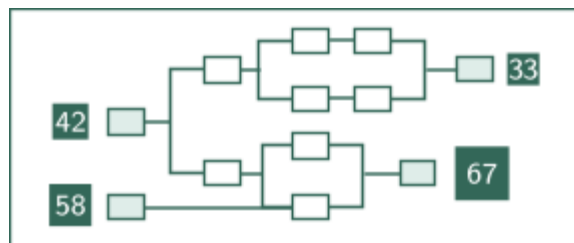
- Raw data

4.23	11.06
12.12	28.91
5.97	7.52

- Risk matrices



- Scenario risk distributions (spider charts, annotated attack graphs)



# Scenario Risk Distributions

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- Develop custom charts to show how risk
  - is distributed by adversary,
  - might shift or change if a countermeasure is implemented, and
  - results are sensitive to one indicator or another.
- Highlight or emphasize key scenarios with
  - notational risk “dashboard,”
  - line or spider charts, or
  - on the red team attack graph.

# Notional Risk “Dashboard”

- The dashboard aggregates risk information, showing
  - each adversary’s indicators,
  - flags each adversary can achieve by case, and
  - the percent of the total scenarios that the adversaries can achieve.

## Adversary One



## Adversary Two



## Adversary Three



# Spider Chart

## Case 0

All scenarios included

## Case 1

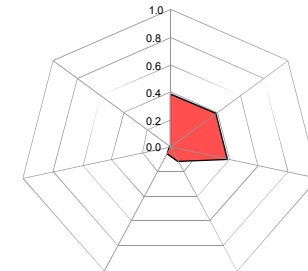
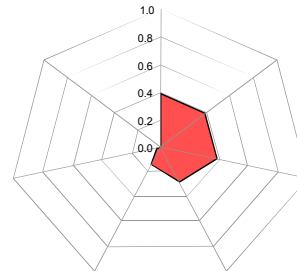
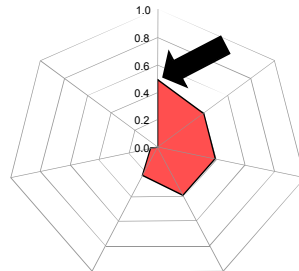
One scenario removed from consideration

## Case 2

Two scenarios removed from consideration

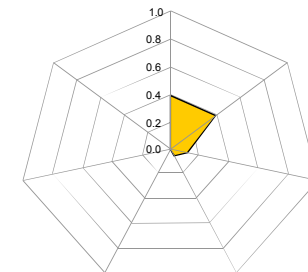
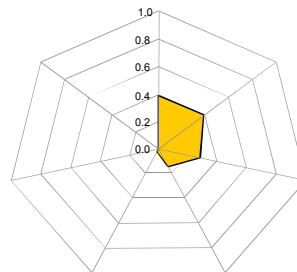
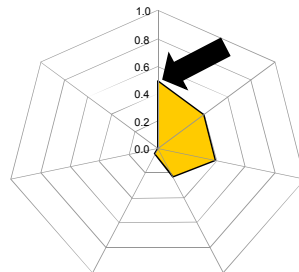
### Evil Genius

Lots of money, time, skill



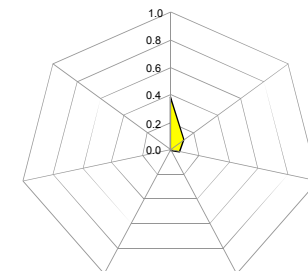
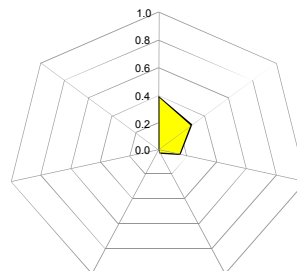
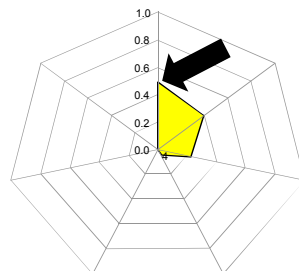
### Evil Madman

Medium amount of money, time, skill



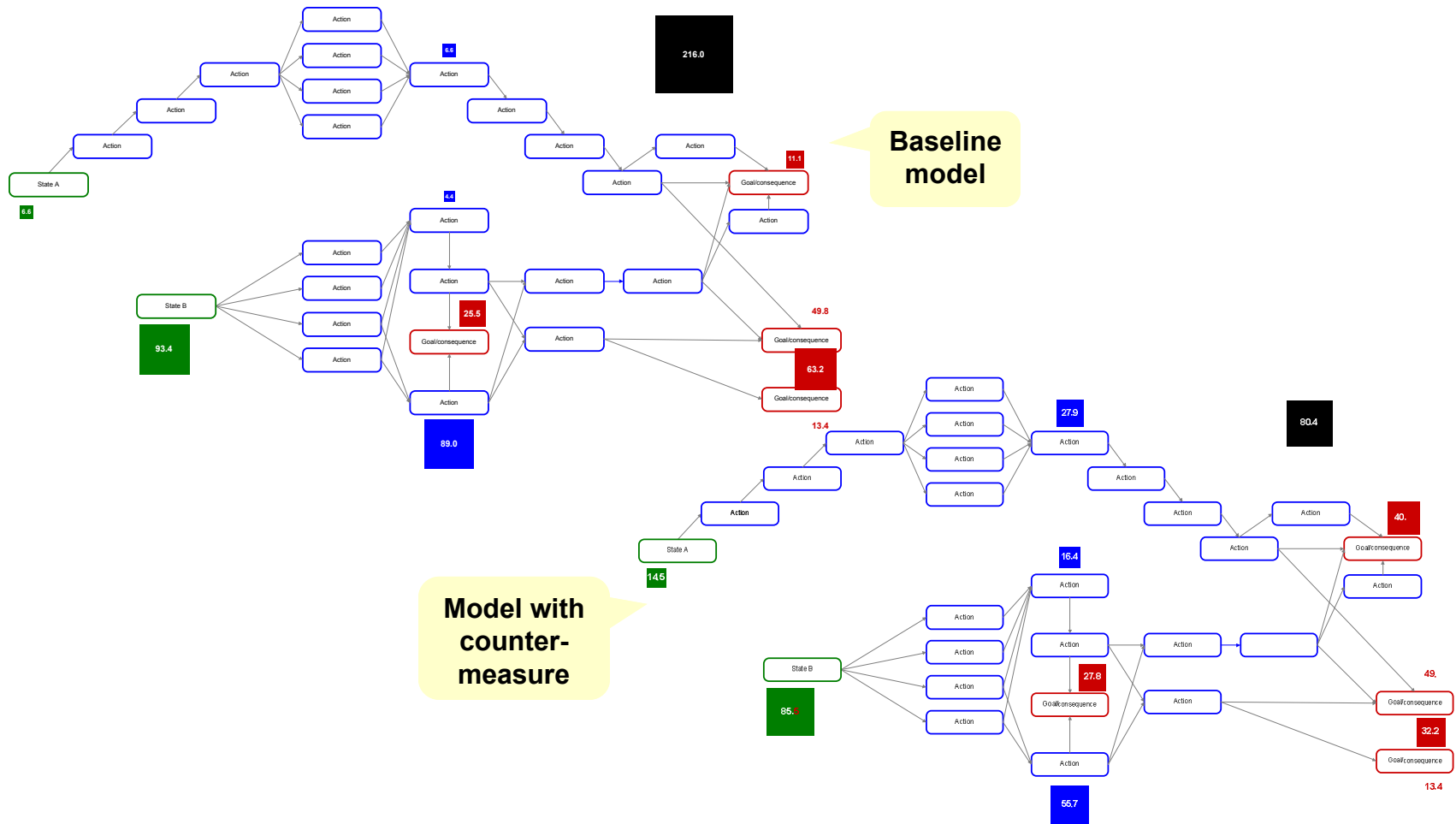
### Evil Bully

Low amount of money, time, skill





# Comparative Analysis



# Translation to Business Impact

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- Translate the risks into business impacts that are expressed in terms of the CUSTOMER'S key business questions and operations



Finances



Security



Scheduling



Opportunity



Legal and  
reporting  
requirements



Continuity of  
operations

- The RED TEAM and RED TEAM LEAD are not necessarily experts in any given area of business impact
- As appropriate the RED TEAM LEAD may work with subject matter experts to craft a more tailored interface with the CUSTOMER

# Questions?

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