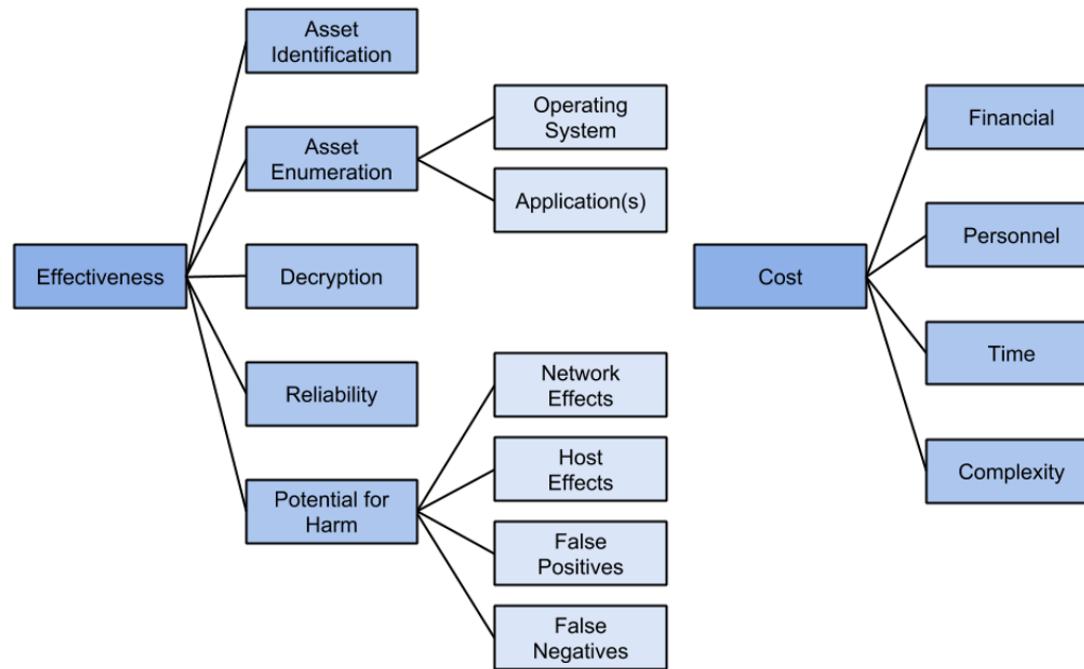


## CYB 220 Technology Evaluation Criteria

### Manager's Questions

The image and questions below have been provided by your manager to demonstrate the breakdown of components and considerations involved in the decision concerning a network protection approach.



#### 1. Operational Frame (Business Context)

- What are the organizational attributes? Consider attributes such as the size, the industry or sector, and/or the risk tolerance of the organization in your response.
- What are the organizational constraints? Consider constraints such as budget, personnel, operational disruption, and/or time constraints of the organization in your response.

#### 2. Operating Environment (Network and System Profile)

##### a. Effectiveness Essential Questions

- What is the level of concern about who's on (or off) the network?
- What is the level of concern about detailed information relating to specific assets on (or off) the network?
- What is the level of concern about the ability to defeat secure communications?



- iv. What is the level of concern about resilience?
- v. What is the level of concern about potential for harm?

b. **Cost Essential Questions**

- i. Can we afford the investment?
- ii. Do we have the right people to implement?
- iii. Will it take too much time?
- iv. Is the tech/activity too complex?

**Technology Evaluation Criteria**

Evaluation Factor	Evaluation Criteria	Manager's Questions—Aligned to Criteria
Effectiveness	Ability to identify network-connected systems	<b>1.a.</b> What are the organizational attributes? <b>2.a.i.</b> What is the level of concern about who's on (or off) the network?
	Ability to discern operating systems of network-connected systems	<b>1.b.</b> What are the organizational constraints? <b>2.a.ii.</b> What is the level of concern about detailed information relating to specific assets on (or off) the network?
	Ability to discern specific software applications based on their unique data flows	<b>1.a.</b> What are the organizational attributes? <b>1.b.</b> What are the organizational constraints? <b>2.a.iii.</b> What is the level of concern about the ability to defeat secure communications? <b>2.a.v.</b> What is the level of concern about potential for harm?
	Ability to handle encrypted data flows	<b>1.b.</b> What are the organizational constraints? <b>2.a.iii.</b> What is the level of concern about the ability to defeat secure communications? <b>2.a.v.</b> What is the level of concern about potential for harm?
	Reliability under stress	<b>1.b.</b> What are the organizational constraints? <b>2.a.iv.</b> What is the level of concern about resilience?
	Potential to cause individual network-connected system outage	<b>1.b.</b> What are the organizational constraints? <b>2.a.iv.</b> What is the level of concern about resilience? <b>2.a.v.</b> What is the level of concern about potential for harm?
	Potential to cause individual network-connected system disruption/slowdown	<b>1.a.</b> What are the organizational attributes? <b>2.a.i.</b> What is the level of concern about who's on (or off) the network? <b>2.a.v.</b> What is the level of concern about potential for harm?



Evaluation Factor	Evaluation Criteria	Manager's Questions—Aligned to Criteria
Risk	Potential cause of network outage	<p><b>1.a.</b> What are the organizational attributes?</p> <p><b>2.a.i.</b> What is the level of concern about who's on (or off) the network?</p> <p><b>2.a.iii.</b> What is the level of concern about the ability to defeat secure communications?</p> <p><b>2.a.iv.</b> What is the level of concern about resilience?</p>
	Potential cause of network disruption/slowdown	<p><b>1.a.</b> What are the organizational attributes?</p> <p><b>2.a.i.</b> What is the level of concern about who's on (or off) the network?</p> <p><b>2.a.iii.</b> What is the level of concern about the ability to defeat secure communications?</p> <p><b>2.a.iv.</b> What is the level of concern about resilience?</p>
	Potential cause of excessive alerts	<p><b>1.b.</b> What are the organizational constraints?</p> <p><b>2.a.i.</b> What is the level of concern about who's on (or off) the network?</p> <p><b>2.a.iii.</b> What is the level of concern about the ability to defeat secure communications?</p>
Cost	Software	<p><b>1.a.</b> What are the organizational attributes?</p> <p><b>1.b.</b> What are the organizational constraints?</p> <p><b>2.b.i.</b> Can we afford the investment?</p> <p><b>2.b.ii.</b> Do we have the right people to implement?</p>
	Personnel (training)	<p><b>1.a.</b> What are the organizational attributes?</p> <p><b>1.b.</b> What are the organizational constraints?</p> <p><b>2.b.i.</b> Can we afford the investment?</p> <p><b>2.b.ii.</b> Do we have the right people to implement?</p>
	Deployment (time to implement)	<p><b>1.a.</b> What are the organizational attributes?</p> <p><b>1.b.</b> What are the organizational constraints?</p> <p><b>2.b.ii.</b> Do we have the right people to implement?</p> <p><b>2.b.iii.</b> Will it take too much time?</p> <p><b>2.b.iv.</b> Is the tech/activity too complex?</p>
	Deployment (complexity)	<p><b>1.b.</b> What are the organizational constraints?</p> <p><b>2.b.ii.</b> Do we have the right people to implement?</p> <p><b>2.b.iv.</b> Is the tech/activity too complex?</p>