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Risk Mitigation	<u>C</u> EH
risk if it occurs	. \
Risk Mitig	gation Strategies
Risk Assumption	Risk Planning
Risk Avoidance	Research and Acknowledgment
3 Risk Limitation	6 Risk Transference
Control the Risks Identify all existing security controls that can help or Recommend any new security controls the organizate Use the results of vulnerability and threat assessment	
Identify all existing security controls that can help or Recommend any new security controls the organizate. Use the results of vulnerability and threat assessment	tion must implement
ldentify all existing security controls that can help or Recommend any new security controls the organizate. Use the results of vulnerability and threat assessment Some of the security controls.	tion must implement nt to minimize risks, as risks are directly proportionate to them that help in reducing risks include: Implement strict access controls and security
ldentify all existing security controls that can help or Recommend any new security controls the organizate. Use the results of vulnerability and threat assessment Some of the security controls. Impart security awareness to employees	tion must implement nt to minimize risks, as risks are directly proportionate to them that help in reducing risks include: Implement strict access controls and security policies
Identify all existing security controls that can help or Recommend any new security controls the organizate. Use the results of vulnerability and threat assessment Some of the security controls. Impart security awareness to employees Place up-to-date hardware and software security solutions such as IDS, firewall, honeypot, and DMZ Strengthen network, account, application, device,	tion must implement Int to minimize risks, as risks are directly proportionate to them that help in reducing risks include: Implement strict access controls and security policies Deploy encryption for all data transfers Implement an appropriate incident handling and

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Risk Calculation Formulas



- Many types of calculations exist
- Not every risk can be invested in equally
- Risk treatments should be commensurate with the value of the assets at risk
- Risk formulas allow security professionals to dimension risk



- Asset Value (AV): The value you have determined an asset to be worth
- Exposure Factor (EF): The estimated percentage of damage or impact that a realized threat would have on the asset
- Single Loss Expectancy (SLE): The projected loss of a single event on an asset
- 9 Annual Rate if Occurrence (ARO): The estimated number of times over a period the threat is likely to occur
- Annualized Loss Expectancy (ALE): The projected loss to the asset based on an annual estimate

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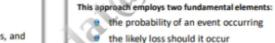
Quantitative Risk vs. Qualitative Risk



Qualitative

A subjective assessment

- Qualitative risk analysis focuses on mapping the perceived impact of a specific event occurring to a risk rating agreed upon by the organization
- Most methodologies use interrelated elements such as threats, vulnerabilities, and controls





Quantitative

A numeric assessment

Quantitative risk analysis focuses on mapping

the perceived cost of the event

the probability of a specific event occurring to

Annual rate of occurrence X Single loss expectancy = Annualized loss expectancy

0=

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Notes:			