As discussed during this course, designing with security in mind rather than leaving it until the end may take some additional time up front but creates a more secure system and saves a lot of time at the end. Leaving it until the end of design, or worse until the end of development, means shoe horning it into an existing system with a lot of redesign and reimplementation potentially required. It may also leave vulnerabilities where design that didn't initial take security into account is overlooked. Adoption of a secure coding standard should select a reputable standard for the industry. This gives the team a reliable standard for uniform implementation of security. Without this each individual implementing on a system is left to their own devices to determine what secure code means. Evaluation of risk and cost of mitigation helps prioritize the importance of various security policies. Especially with more offices moving to work from home policies, but even without that, Zero Trust Policies are becoming more important. Attacks can initiate from both outside and inside a network, and external attacks that penetrate a system may then become internal attacks for penetrating other systems if security is designed poorly. Zero Trust Policies imply that nothing should be implicitly trusted. When it comes to implementation of security, practicing defense in depth is incredibly important as is implementing with authentication, authorization, and accountability in mind. Strong authorization policies including utilizing multifactor authentication, and training users on strong password and security policies to mitigate security breaches based on compromised credentials is a first layer. Authorization needs to be implemented to default to deny, to provide minimum permissions necessary to users and to provide those permissions only during the timeframe during which they are needed. Finally, accountability means tracking all usage and access on the system in order to better track security breaches and allow for better mitigation.