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# **CIS433/533 - Introduction to Computer and Network Security**

## **Access Control**

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# Trusted Computing Base



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- The trusted computing base is the infrastructure that you assume will behave correctly
  - ▶ Hardware (keyboard, monitor, ...)
  - ▶ Operating Systems
  - ▶ Implementations
  - ▶ Local networks
  - ▶ Administrators
  - ▶ Other users on the same system
- Axiom: the larger the TCB, the more assumptions you must make (and hence, the more opportunity to have your assumptions violated).



- First, what is a policy?
  - ▶ Some statement of secure procedure or configuration that parameterizes the operation of a system
  - ▶ Example: Airport Policy
  - ▶ Take off your shoes
  - ▶ No bottles that could contain  $> 3$  ozs
  - ▶ Empty bottles are OK?
  - ▶ You need to put your things through X-ray machine
  - ▶ Laptops by themselves, coat off
  - ▶ Metal detector
- Purpose: prevent on-airplane (metal) weapon ...

