## MAC Motivation

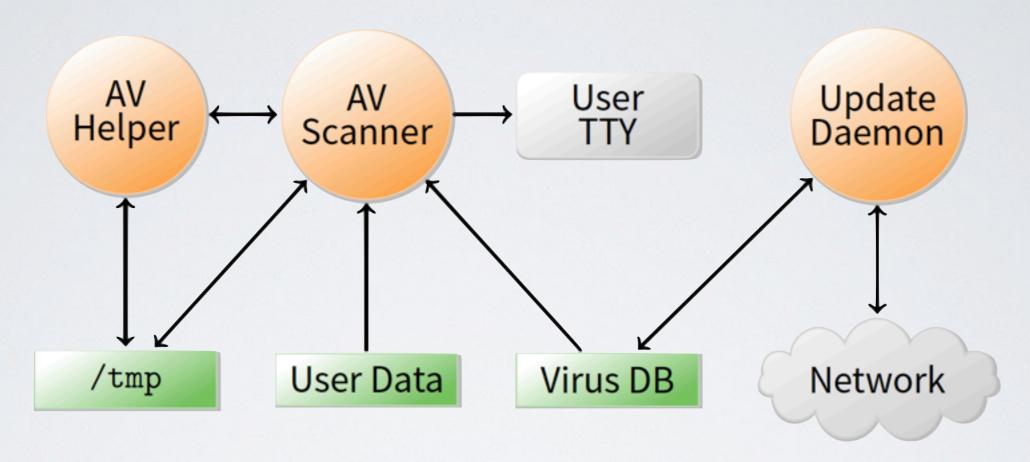
Prevent users from disclosing sensitive information (whether accidentally or maliciously) e.g. classified information requires such protection

Prevent software from surreptitiously leaking data - seemingly innocuous software may steal secrets in the background (Trojan Horse)

Case study - Symantec AntiVirus 10

- Inherently required access to all of a user's files to scan them
- Contained a remote exploit (attacker could run arbitrary code)
- → Can an OS protect private file contents under such circumstances?

## Example - anti-virus software



How can OS enforce security without trusting AV software?

- Must not leak contents of your files to network
- Must not tamper with contents of your files