







- Difficult to "prove" a system secure
- Security is based on principles and best practices – experience reveals commonly occurring types of flaws but electronic acceleration of the better
 - but clearly we need to do better ...

















- # susceptible hosts = S(t)• # infected hosts = I(t); I(t) + S(t) = S(0)
- scan rate of infected host = B scans/second
- simple differential equation solving leads to:
 - dl(t) / dt = l(t) x B x [S(t) / N]

S(t) / S(0)

- Exponential growth!
 until population saturates
 Code Red worms followed
 - this quite closely























