

## Finding Vulnerabilities

nmap -sC 172.16.1.191

81.  $P(x,y)$  is false, don't even imply  
 $\exists x \forall y P(x,y)$

This is false b/c  $\exists y. \neg P(x,y)$   
here  $\forall x. \neg \forall y. P(x,y)$  by De Morgan  
 $\neg \exists x. \forall y. P(x,y)$

85.  $\exists x \forall y P(x,y)$  is false. Hence  $\forall y \exists x \neg P(x,y)$   
by De Morgan

$\exists x \exists y. P(x,y)$   
may be true or false - we don't know

Figure 1: mardas