

Compilers and Formal Languages (10)

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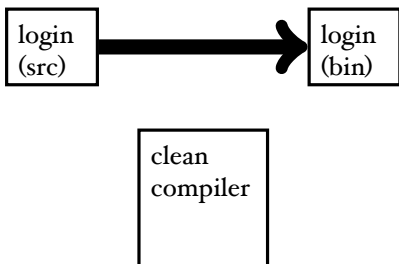
Slides: KEATS (also home work is there)

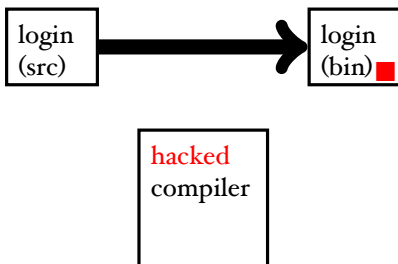
**Using a compiler,
how can you mount the
perfect attack against a system?**

What is a **perfect** attack?

- 1 you can potentially completely take over a target system
- 2 your attack is (nearly) undetectable
- 3 the victim has (almost) no chance to recover

clean
compiler





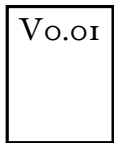
my compiler (src)



Scala

host language

my compiler (src)

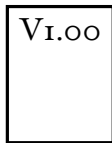


Scala



Scala

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Scala

host language

my compiler (src)

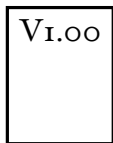


Scala

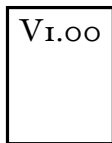


Scala

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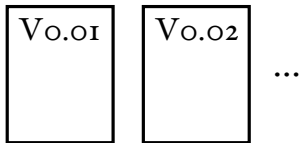


Scala



host language

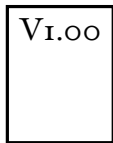
my compiler (src)



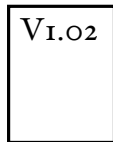
Scala

Scala

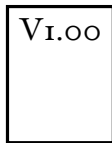
host language



Scala



...



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no host language
needed