

Introduction

CSC154

Course Information

- Instructor: Jun Dai
 - Assistant Professor of Computer Science
 - RVR 5060
 - jun.dai@csus.edu (indicate CSC154 in subject line)
- Syllabus
 - Roadmap to the whole course
 - “Legal Policy”

PoP Quiz

- Have a password on your computer/account that is 9 characters or more with upper case, lower case, symbol and number
- Have a unique password for your work computer/device that is not used for other devices
- Always delete emails with the cute cat videos your mother/uncle/sister/friend sends you
- Run antivirus software to scan your systems periodically
- Keep firewall run for your systems
- Have never hit “remind me later” on a software update
- Have never used the website which you are prompted that its certificate is expired/fake
- Have your home wireless network protected by encryption
- Have enabled two step verification on one account

adapted from a quiz by national cyber security alliance

Grouping

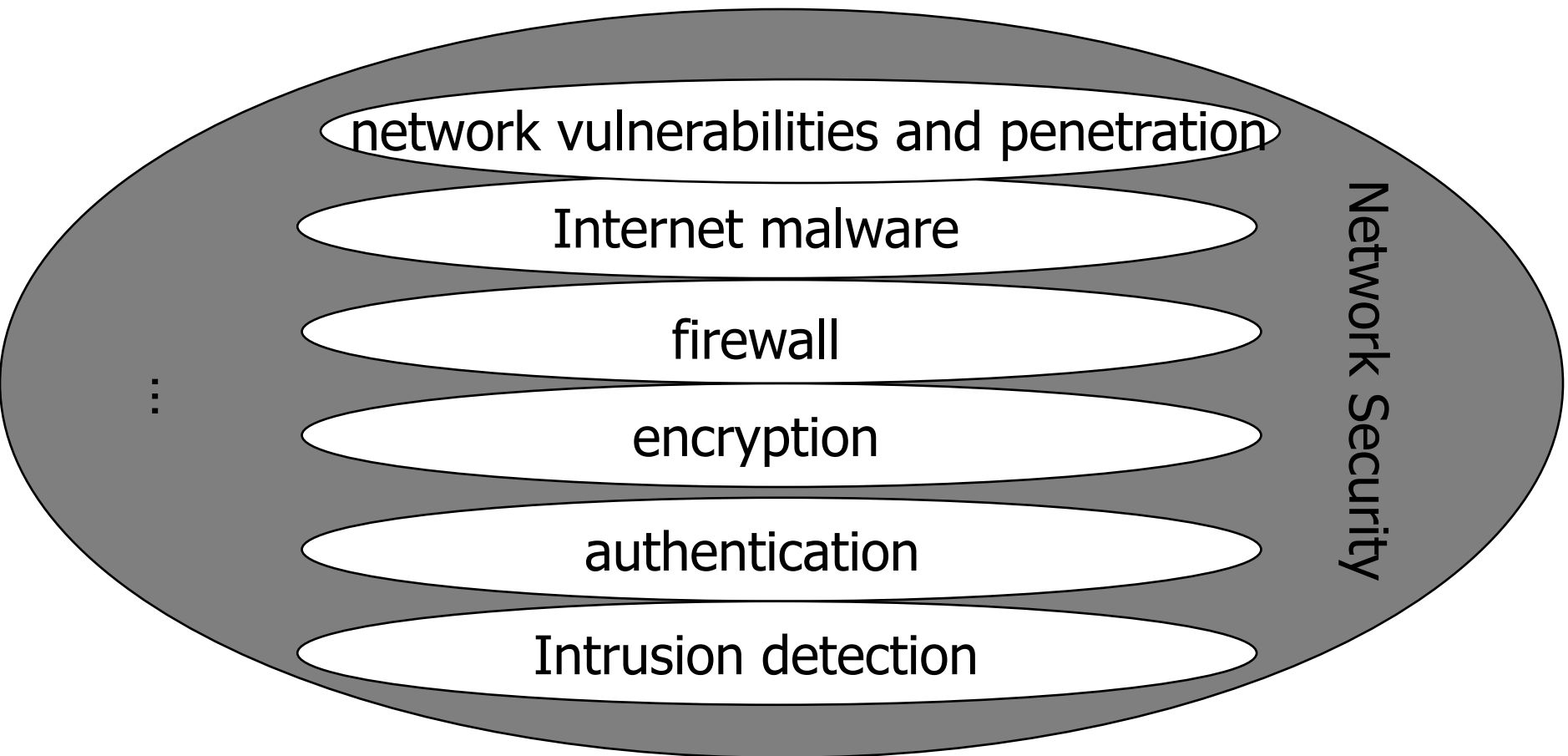
- After enrollment fixed, 4 persons grouped together as a team.
 - Group Project (the whole semester)
 - OPEN-MIND assignment
- **Done before next class!**

Two big pictures, a phrase, and a logic for CSC154

- Big picture (topics)
- Big picture (an example attack scenario)
- Resources: CIA
 - confidentiality, integrity, availability
- Logic:
 - attacker perspective->neutral perspective->defense perspective

Big Picture of CSC154 (topics)

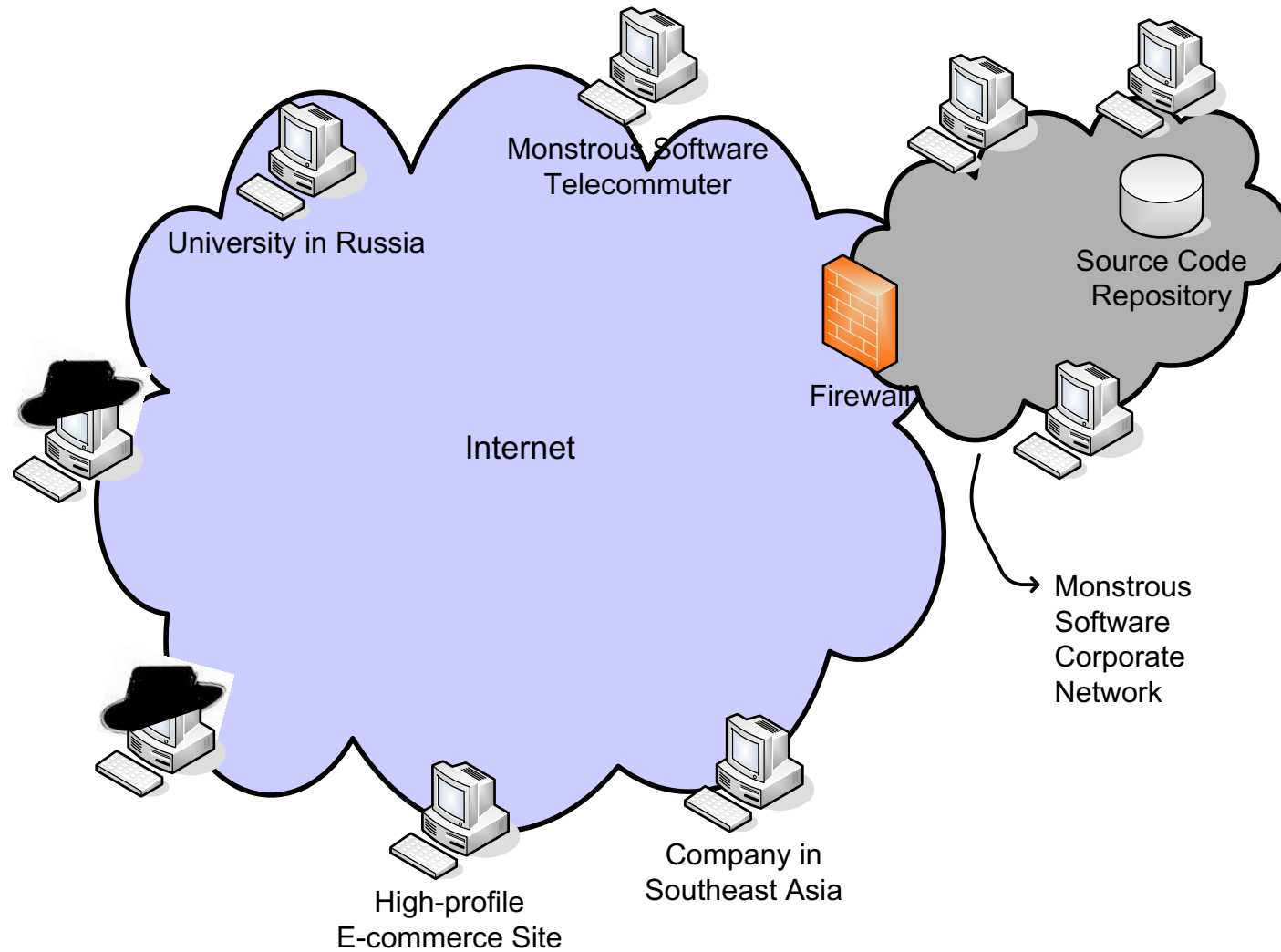
- CSC154 is a bundle of 6-9 topics.



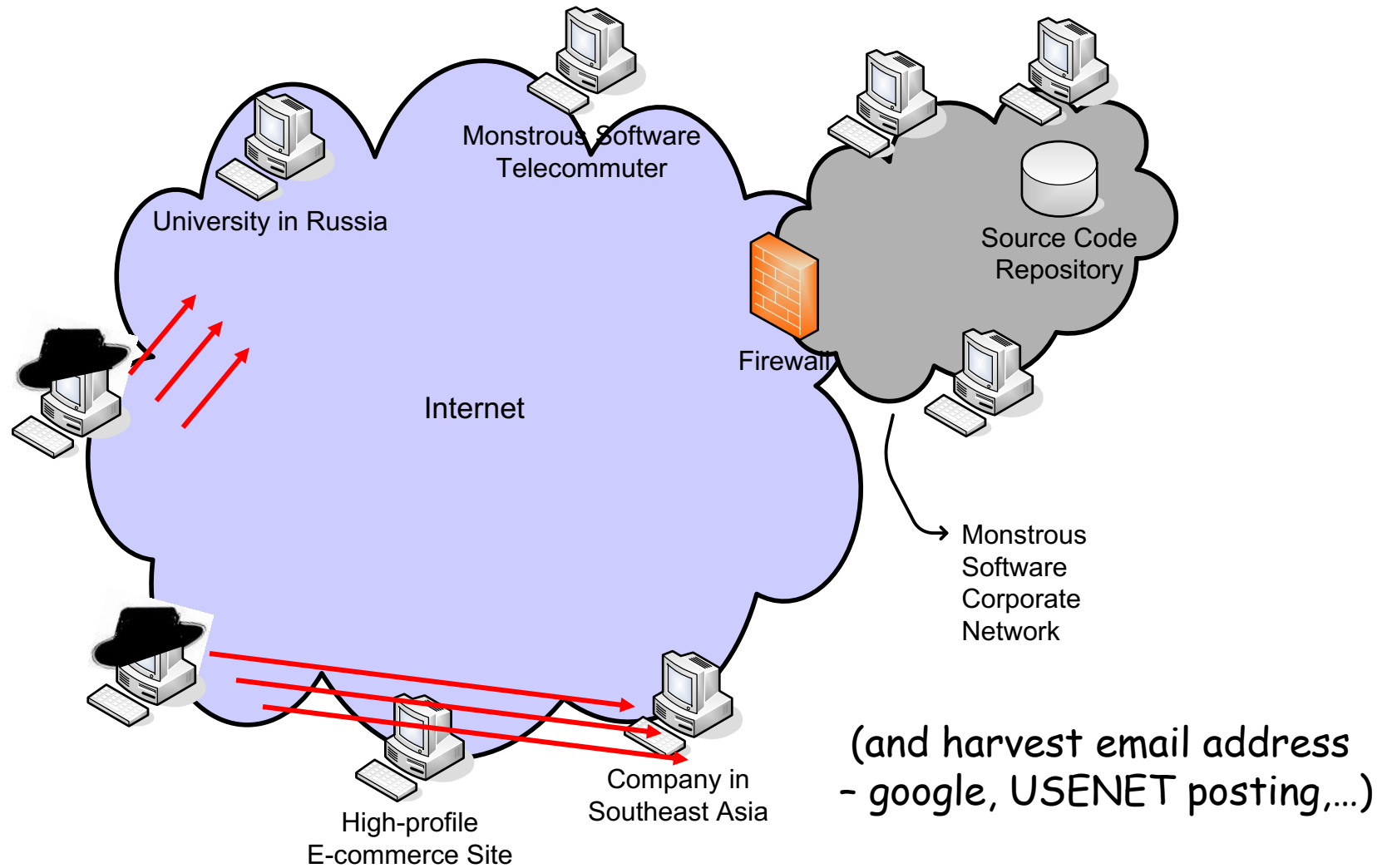
Big Picture of CSC154 (an example attack scenario)

(Mission: **Stealing the source code**)

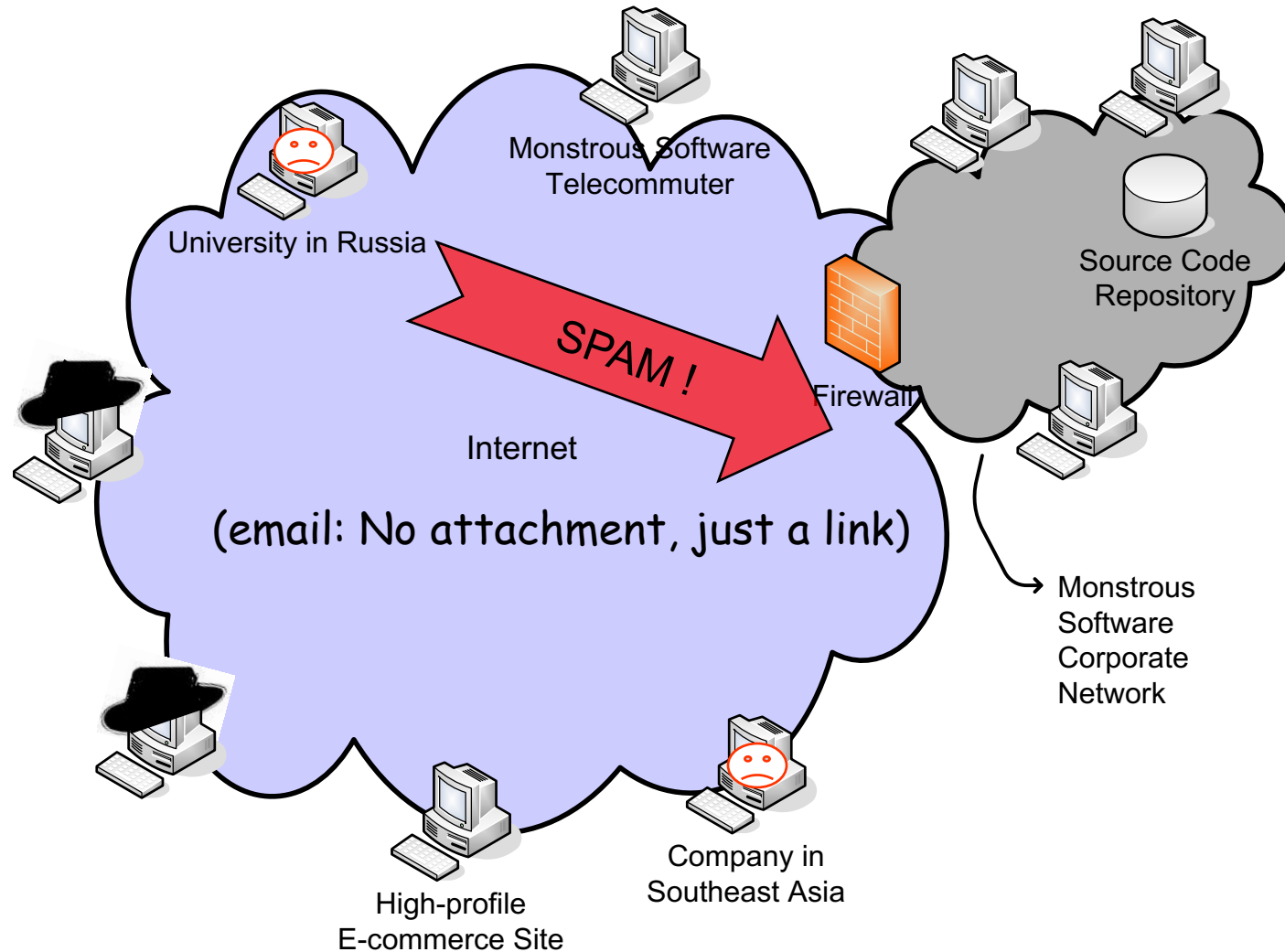
The Internet and the victim company



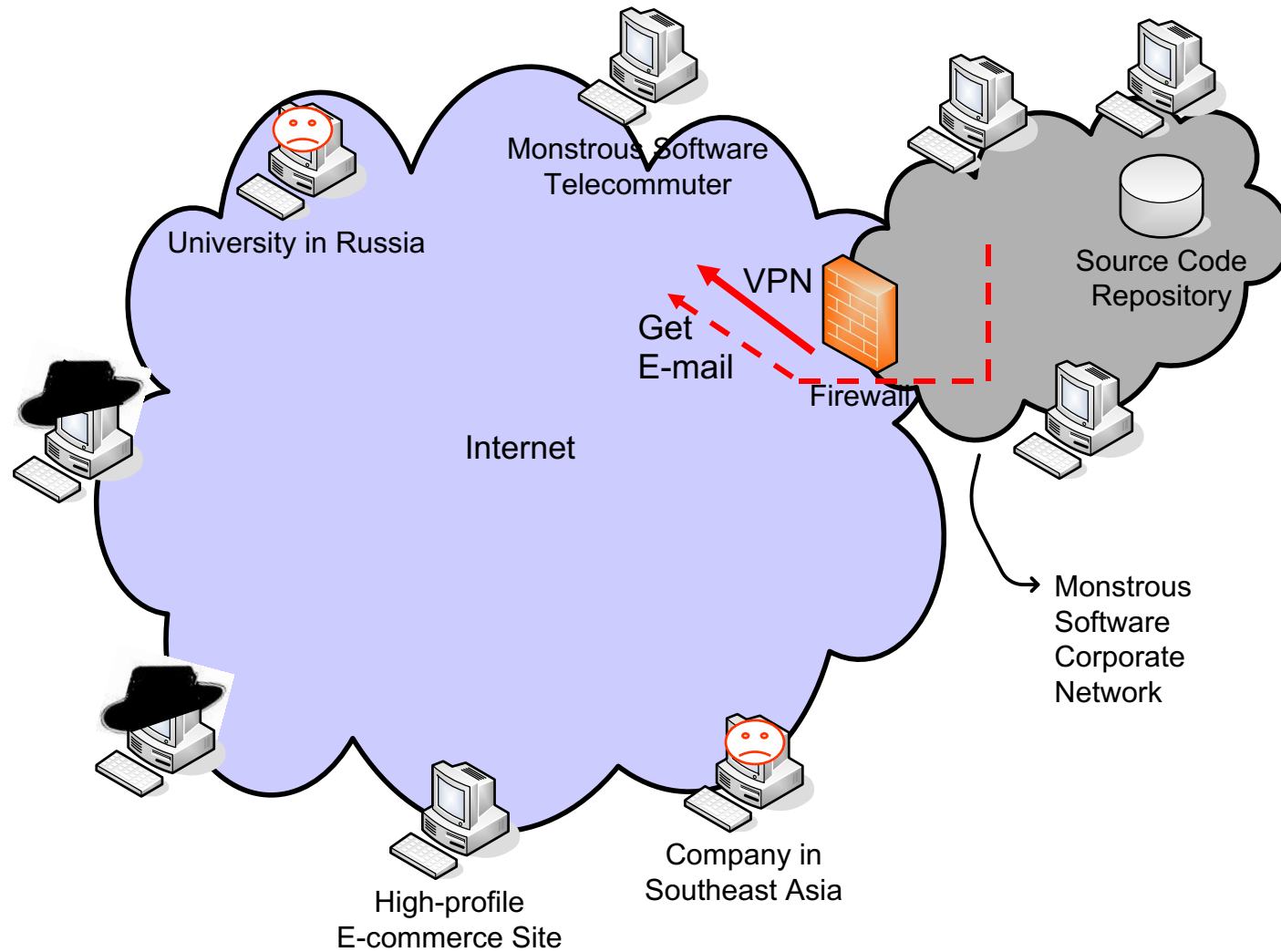
Attackers Scan for Intermediaries



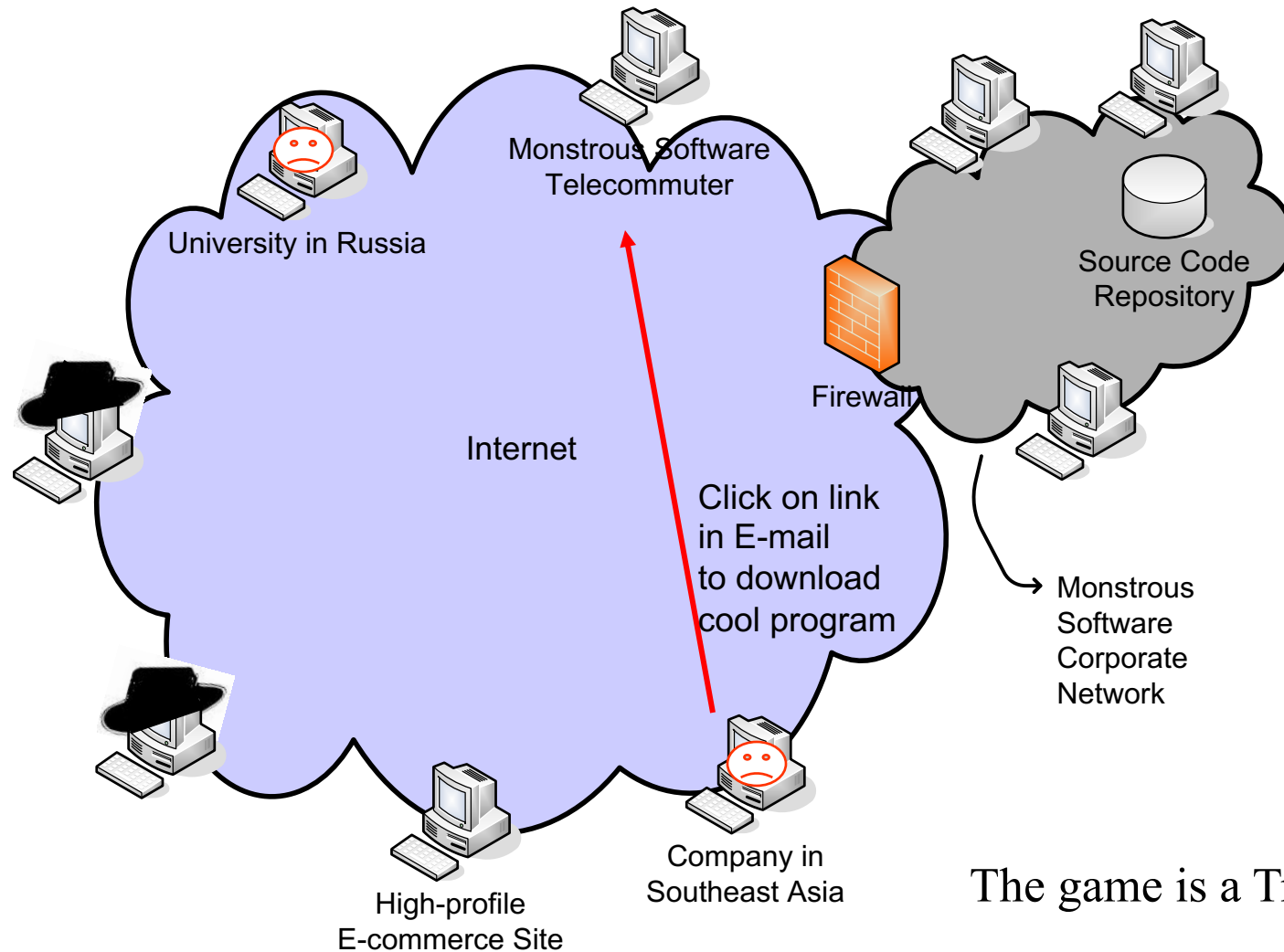
Send a Spam mail ("Re: Cool Game")



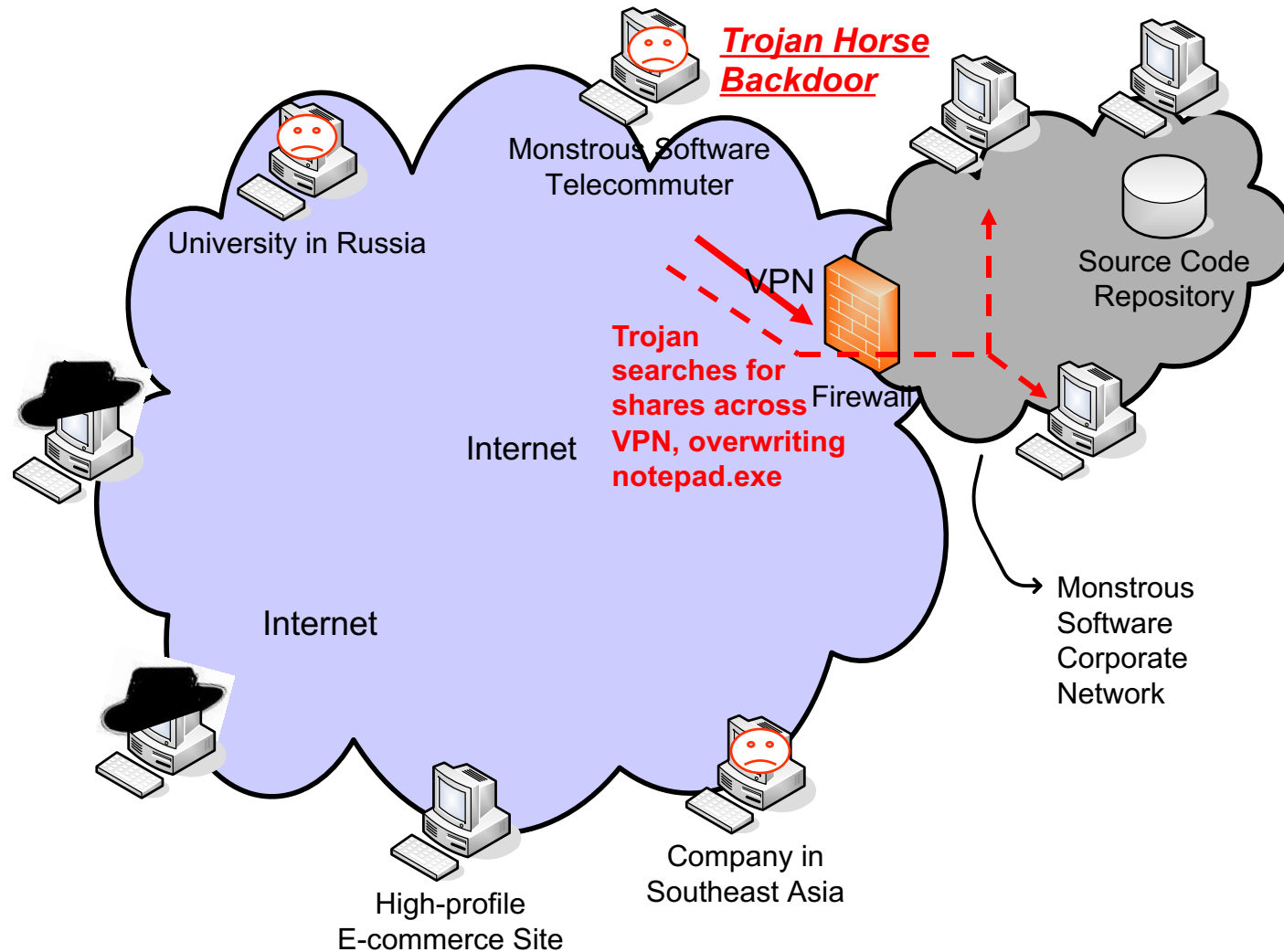
Telecommuter Gets the mail thru VPN



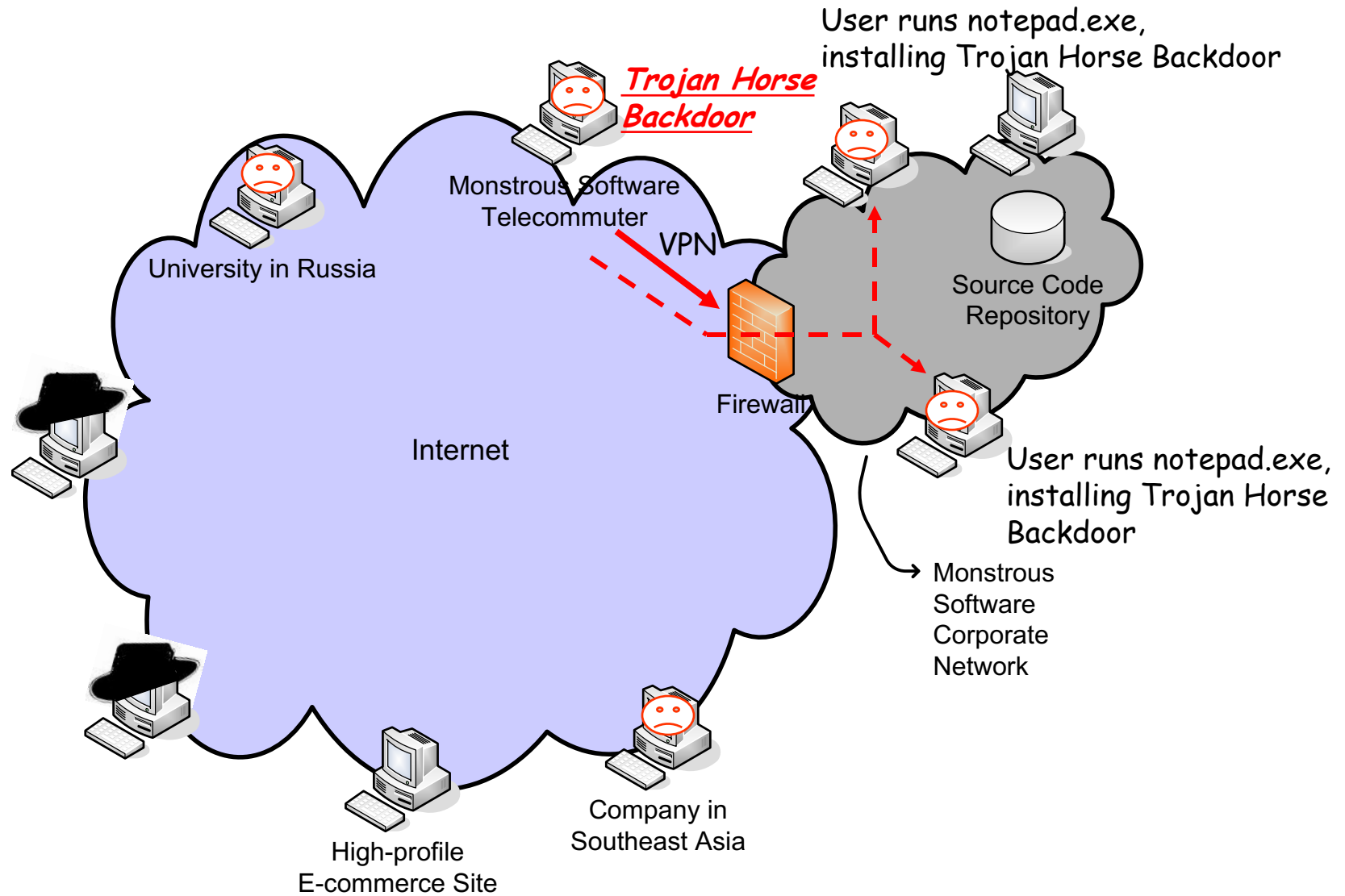
Download the Game.... Stupid :-)



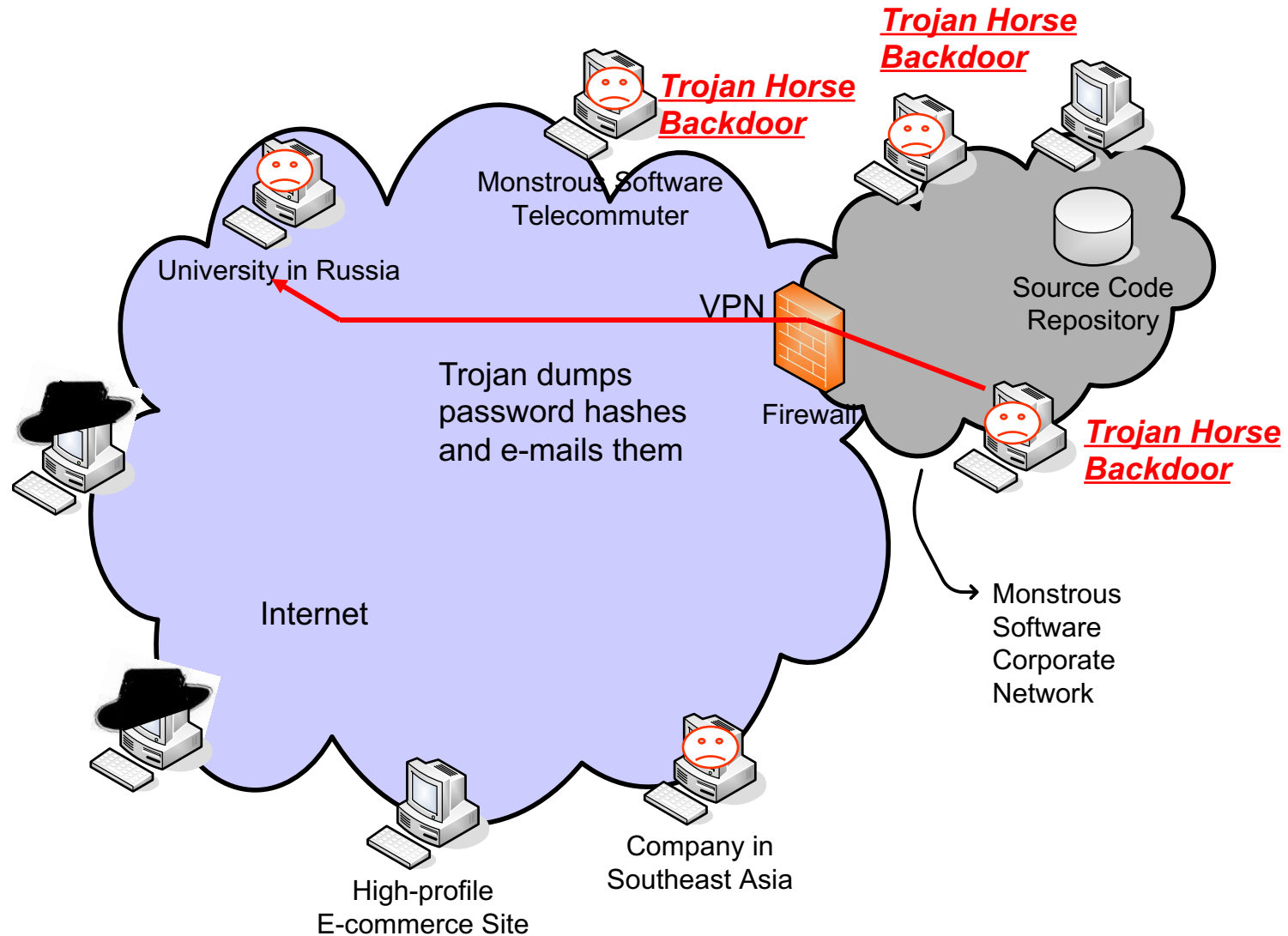
Trojan Copies Itself to Intranet Thru VPN



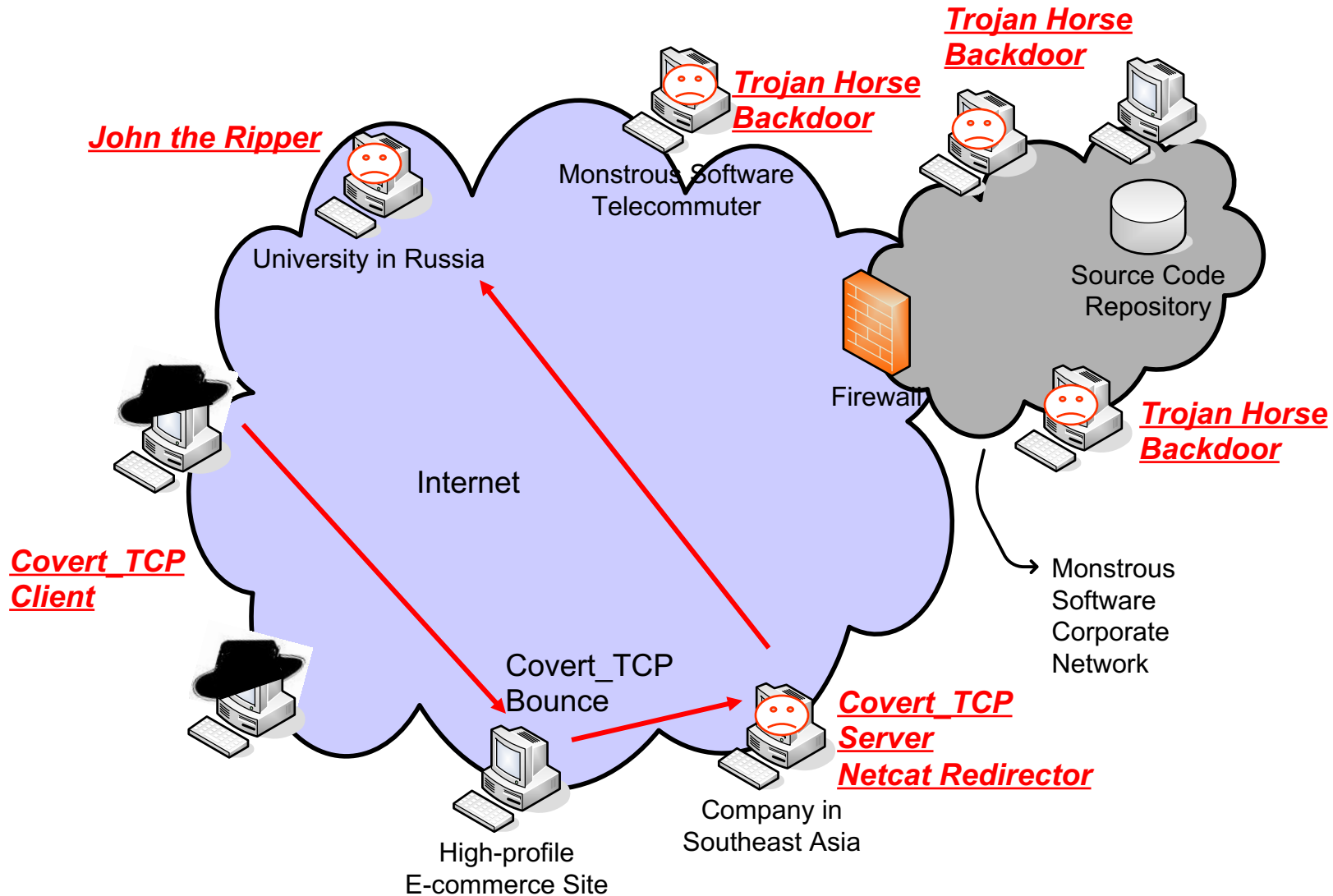
Trojan Installed on Internal Net



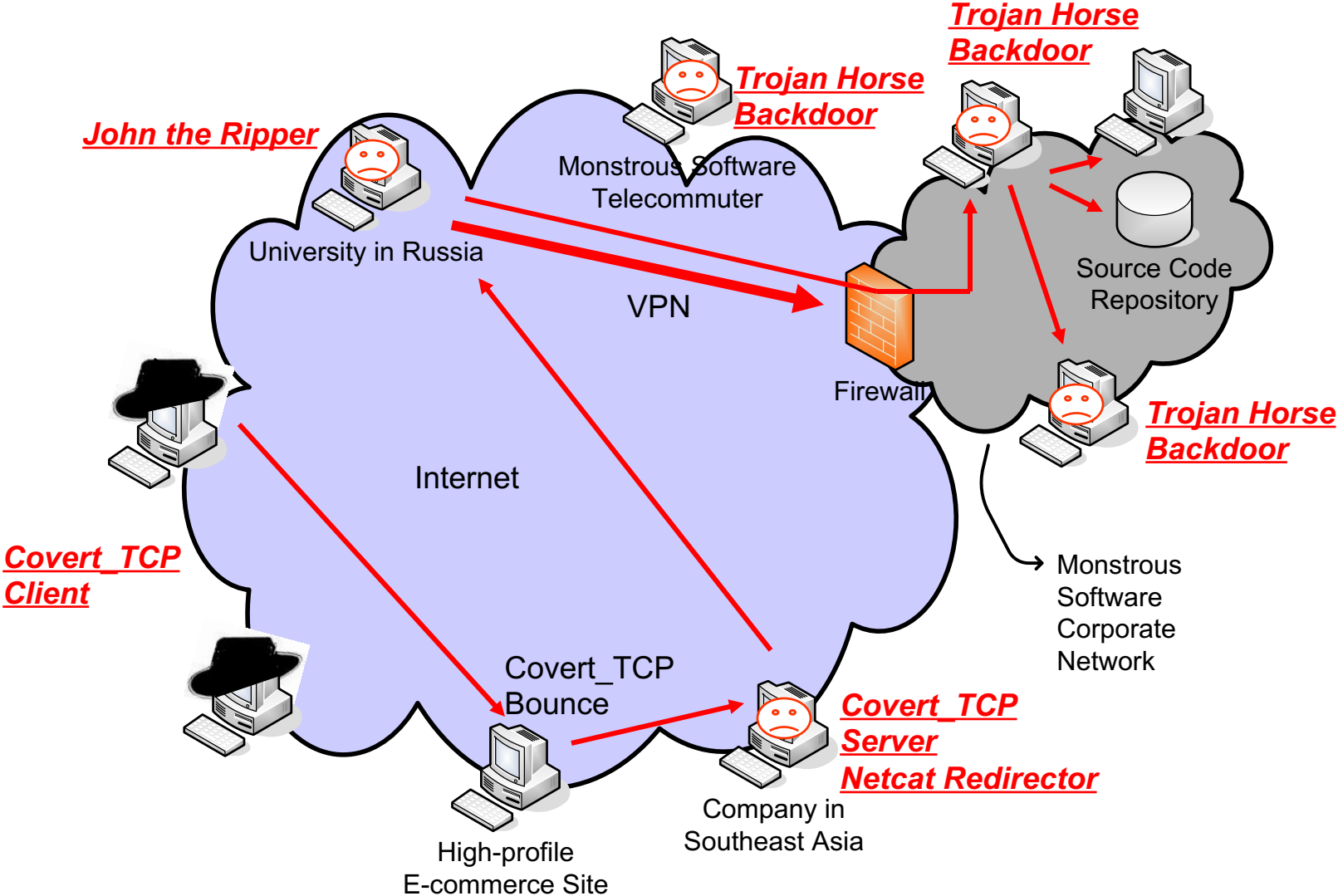
Trojan Steals Passwords



Attackers Retrieve Passwords



Attackers Gain Access through VPN



Yes! Grab the Source Code!

