

Lab report 9. P2P protocol

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Actors

Android knows **PC**

Ubuntu VM knows **PC**

Ubuntu PC knows **Android**

Scenario

1. VM wants to acquire file **run**. Initially, it knows PC only.
2. PC knows Android so it asks him if he has a file named **DEATHNOTE**. By this moment it also knows about VM so it asks him as well. **DEATHNOTE** is not present anywhere.
3. VM queries file **run** again. Now VM knows both PC and Android. First it asks PC, then it tries Android – success.
4. VM saves file and prints it out into the terminal.

P.S. See next page for screenshots, the code is just there in the archive

Screenshots (Android, PC and VM)

```
10:41 • 56%
$ sh run
log
include
src
run
compile
alice
sweetwords
Which file do you want? :
File is
DEATHNOTE
We have none
File is
run
█
```

```
File Edit View Search Terminal Help
ff@stranberg:/strg/networks/week8$ gcc src/alice.c src/utls.c -o alice -pthread && ./a
lice 10.241.1.168 2222 10.241.1.10 7777 log
notes
macbeth
misc
.gitignore
log
juliet
.git
src
alice
include
ar.zip
Which file do you want? :
DEATHNOTE
Which file do you want? :
█
```

```
lyamets@microverse:~$ ./alice 10.241.1.195 4444 10.241.1.168 2222 log
.lesshst
.bashrc
.profile
.bash_history
networks_shared
juliet
.gnupg
interfaces.1
.viminfo
.sudo_as_admin_successful
macbeth
.bash_logout
alice
run
log
.cache
Which file do you want? :
run
Which file do you want? :
run
./alice 10.241.1.10 7777 10.241.1.168 2222 log
Which file do you want? :
```