

Steps to connect to the LIDA server

1. Download VPN Client from [here](#)

VPN client download / instructions / access points

If you have already installed the client (even if it is the old one), it is sufficient to just change the server address ([click here](#))

Download VPN Client (as of 01.02.2021)

VPN Client Win / MacOS / Win_ARM



(Download depending on the operating system of the device used)

1. Please enter your HFT user name and password in the window that opens and click 'Login'

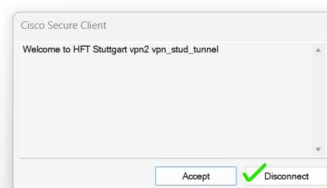
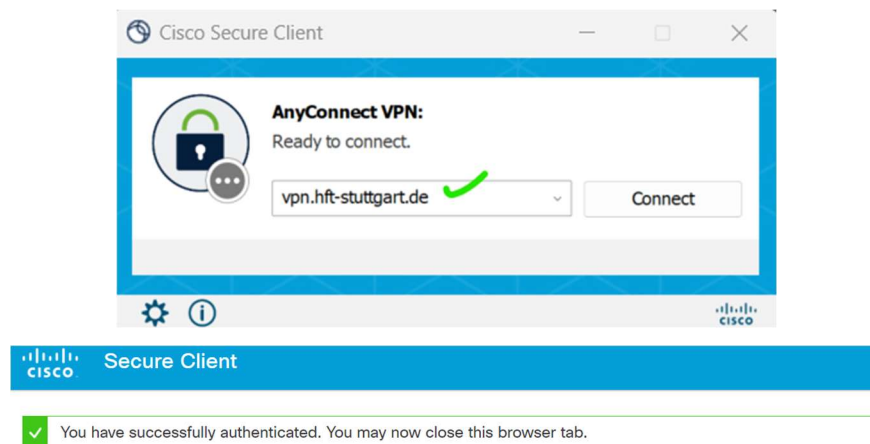
2. Click on 'continue' to get to the download page

VPN Client Linux

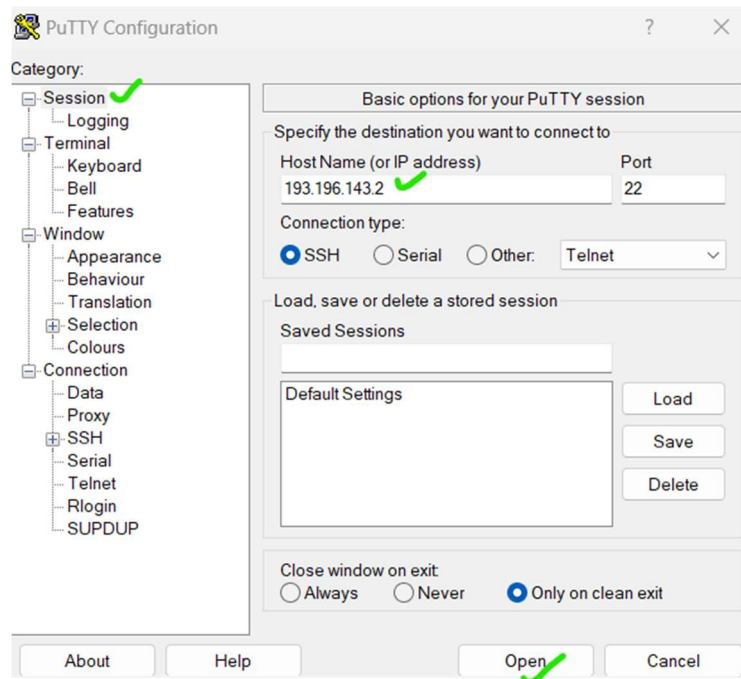
VPN Client iPhone/iPad

VPN Client Android

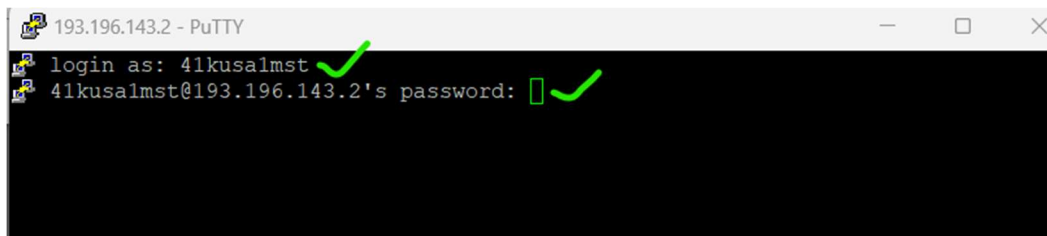
2. Install the file and open Cisco Connect:



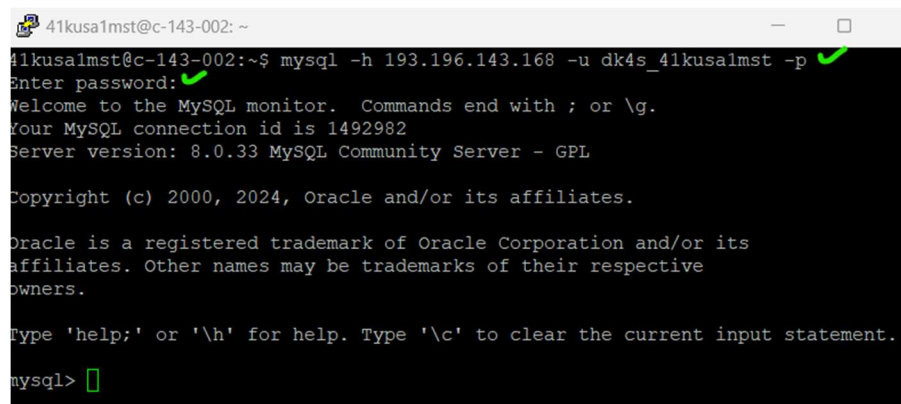
3. Open PuTTY and enter the IP Address: 193.196.143.2



4. Enter the login details – hft user id and hft password



5. Enter the command: `mysql -h 193.196.143.168 -u dk4s_41kusa1mst -p`
6. Enter password: bitteaendern



7. MySQL Command: show databases;

```
mysql> show databases;
+-----+
| Database                |
+-----+
| dk4s_41kusalmst         |
| information_schema       |
| koch_universitydb       |
| performance_schema      |
+-----+
4 rows in set (0,00 sec)
```

8. MySQL Command: use dk4s_41kusa1mst

```
mysql> use dk4s_41kusalmst;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

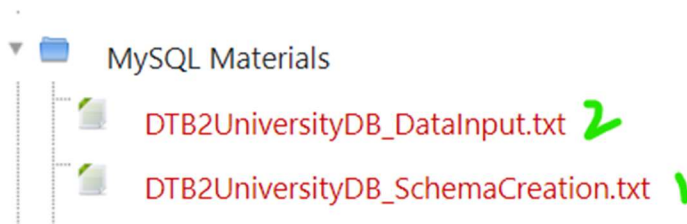
Database changed
mysql> 
```

9. MySQL Command: show tables;

```
mysql> show tables;
Empty set (0,01 sec)

mysql> 
```

10. Download these two files from Moodle.



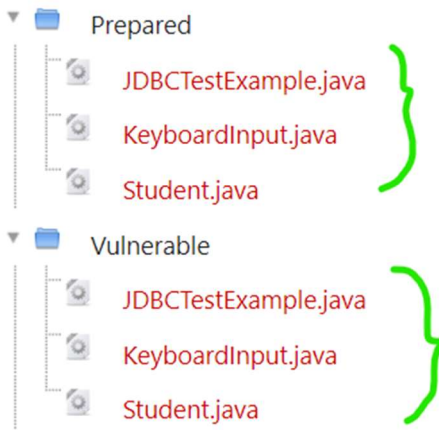
11. Copy and paste both the .txt texts into mysql (Shift + Insert).

12. Open a new PuTTY window.

13. Create a new folder, say, 'Ryan_Gosling' and cd into it

```
41kusa1mst@c-143-002: ~/Ryan_Gosling
41kusalmst@c-143-002:~$ mkdir Ryan_Gosling
41kusalmst@c-143-002:~$ cd Ryan_Gosling/
41kusalmst@c-143-002:~/Ryan_Gosling$ 
```

14. Download any three files from the Moodle:



15. Terminal Command: `emacs KeyboardInput.java`

16. You are inside the weird terminal now.

17. Copy and paste (Shift + Insert) the KeyboardInput.java code here.

18. CTRL+X CTRL+S to save it

19. CTRL+X CTRL+C to exit from the file

20. Repeat Steps 15-10 to create a Student.java file.

```
41kusal1mst@c-143-002: ~/Ryan_Gosling
41kusal1mst@c-143-002:~$ mkdir Ryan_Gosling
41kusal1mst@c-143-002:~$ cd Ryan_Gosling/
41kusal1mst@c-143-002:~/Ryan_Gosling$ emacs KeyboardInput.java
41kusal1mst@c-143-002:~/Ryan_Gosling$ emacs Student.java
```

21. Compile and run the Student.java file

```
41kusal1mst@c-143-002: ~/Ryan_Gosling
41kusal1mst@c-143-002:~$ mkdir Ryan_Gosling
41kusal1mst@c-143-002:~$ cd Ryan_Gosling/
41kusal1mst@c-143-002:~/Ryan_Gosling$ emacs KeyboardInput.java
41kusal1mst@c-143-002:~/Ryan_Gosling$ emacs Student.java
41kusal1mst@c-143-002:~/Ryan_Gosling$ javac Student.java
41kusal1mst@c-143-002:~/Ryan_Gosling$ java Student.java
MySQL login: dk4s_41kusal1mst
Password:

Exception in thread "main" java.sql.SQLException: No suitable driver found for j
dbc:mysql://193.196.143.168/koch_universitydb
    at java.sql/java.sql.DriverManager.getConnection(DriverManager.java:708)
    at java.sql/java.sql.DriverManager.getConnection(DriverManager.java:230)
    at Student.main(Student.java:23)
41kusal1mst@c-143-002:~/Ryan_Gosling$
```

:sse eingeben

Lesezeichen bearbeiten

Name:

Adresse:

- ☒ Lesezeichenleiste
- ☐ Andere Lesezeichen
- ☐ Speed Dials

WinSCP Anmeldung

Neues Verbindungsziel

Sitzung

Übertragungsprotokoll:

Rechnername: Portnummer:

Benutzername: Kennwort:

22. Open Apache Netbeans.

```
Connection conn = DriverManager.getConnection(
    "jdbc:mysql://193.196.143.168/dk4s_41kusalmst", "dk4s_41kusalmst", "bitteaendern"
);
```

23. Add the mysql .jar driver in the "Libraries".

24. Run the project.

FAQ

1. Zombie processes

a. Dead Process running in main memory

b. Kill -9 <process_number>

process id

```

koch@c-143-002:~$ ps
ps auxf | grep koch | more
root    3278876  0.0  0.0 17216 10988 ?        Ss   10:18   0:00 \_ sshd: koch [priv]
koch    3279078  0.0  0.0 17548  8680 ?        S    10:19   0:00 | \_ sshd: koch@pts/37
koch    3279081  0.0  0.0 14100  6932 pts/37   Ss   10:19   0:00 | \_ \_ -bash
koch    3285743  0.0  0.0 30028 14692 pts/37   T    10:22   0:00 | \_ \_ mysql -h 193.196.143.168 -u k
och -p
koch    3320177  0.0  0.0 18732  8084 pts/37   R+   10:42   0:00 | \_ \_ ps auxf
koch    3320178  0.0  0.0  9476  2408 pts/37   S+   10:42   0:00 | \_ \_ grep --color=auto koch
koch    3320179  0.0  0.0  8960  1300 pts/37   S+   10:42   0:00 | \_ \_ more
root    3296130  0.0  0.0 17216 10968 ?        Ss   10:26   0:00 \_ sshd: koch [priv]
koch    3296384  0.0  0.0 17396  8752 ?        S    10:26   0:00 | \_ sshd: koch@pts/41
koch    3296385  0.0  0.0 14232  7108 pts/41   Ss+  10:26   0:00 | \_ \_ -bash
koch    3279004  0.0  0.0 18240 10888 ?        Ss   10:19   0:00 /lib/systemd/systemd --user
koch    3279005  0.0  0.0 172812  6944 ?        S    10:19   0:00 \_ (sd-pam)
koch    3279014  0.0  0.0  41868  7708 ?        Ssl  10:19   0:00 \_ /usr/bin/pipewire
koch    3279015  0.0  0.0  26052  7872 ?        Ssl  10:19   0:00 \_ /usr/bin/pipewire-media-session
koch    3279016  0.0  0.0 299224 24760 ?        Ssl  10:19   0:00 \_ /usr/bin/pulseaudio --daemonize=no --log-
target=journal

```

processes


```

koch@c-143-002:~$ ps -ef | grep koch | more
root      3278876      9889    0 10:18 ?        00:00:00 sshd: koch [priv]
koch      3279004          1    0 10:19 ?        00:00:00 /lib/systemd/systemd --user
koch      3279005 3279004    0 10:19 ?        00:00:00 (sd-pam)
koch      3279014 3279004    0 10:19 ?        00:00:00 /usr/bin/pipewire
koch      3279015 3279004    0 10:19 ?        00:00:00 /usr/bin/pipewire-media-session
koch      3279016 3279004    0 10:19 ?        00:00:00 /usr/bin/pulseaudio --daemonize=no --log-
koch      3279056 3279004    0 10:19 ?        00:00:00 /usr/bin/dbus-daemon --session --address=
-nopidfile --systemd-activation --syslog-only
koch      3279078 3278876    0 10:19 ?        00:00:00 sshd: koch@pts/37
koch      3279081 3279078    0 10:19 pts/37    00:00:00 -bash
koch      3285743 3279081    0 10:22 pts/37    00:00:00 mysql -h 193.196.143.168 -u koch -p
root      3296130      9889    0 10:26 ?        00:00:00 sshd: koch [priv]
koch      3296384 3296130    0 10:26 ?        00:00:00 sshd: koch@pts/41
koch      3296385 3296384    0 10:26 pts/41    00:00:00 -bash
koch      3327049 3279081    0 10:47 pts/37    00:00:00 ps -ef

```

process Parent process

```

koch@c-143-002:~$ kill -9 3327051
-bash: kill: (3327051) - Kein passender Prozess gefunden
koch@c-143-002:~$ ps -ef | grep koch | more
root      3278876      9889    0 10:18 ?        00:00:00 sshd: koch [priv]
koch      3279004          1    0 10:19 ?        00:00:00 /lib/systemd/systemd --user
koch      3279005 3279004    0 10:19 ?        00:00:00 (sd-pam)
koch      3279014 3279004    0 10:19 ?        00:00:00 /usr/bin/pipewire
koch      3279015 3279004    0 10:19 ?        00:00:00 /usr/bin/pipewire-media-session
koch      3279016 3279004    0 10:19 ?        00:00:00 /usr/bin/pulseaudio --daemonize=no --log-target
koch      3279056 3279004    0 10:19 ?        00:00:00 /usr/bin/dbus-daemon --session --address=system
-nopidfile --systemd-activation --syslog-only
koch      3279078 3278876    0 10:19 ?        00:00:00 sshd: koch@pts/37
koch      3279081 3279078    0 10:19 pts/37    00:00:00 -bash
koch      3285743 3279081    0 10:22 pts/37    00:00:00 mysql -h 193.196.143.168 -u koch -p
root      3296130      9889    0 10:26 ?        00:00:00 sshd: koch [priv]
koch      3296384 3296130    0 10:26 ?        00:00:00 sshd: koch@pts/41
koch      3296385 3296384    0 10:26 pts/41    00:00:00 -bash
koch      3330476 3296385    4 10:49 pts/41    00:00:00 emacs Student.java
koch      3330731 3279081    0 10:49 pts/37    00:00:00 ps -ef
koch      3330732 3279081    0 10:49 pts/37    00:00:00 grep --color=auto koch
koch      3330733 3279081    0 10:49 pts/37    00:00:00 more
koch@c-143-002:~$ kill 3330476

```

```

mysql>
[1]+  Angehalten                  mysql -h 193.196.1
koch@c-143-002:~$ ps auxf | grep koch | more
root      3278876    0.0    0.0 17216 10988 ?
h [priv]

```

- ps auxf | more
- grep commands create processes

```
koch@c-143-002:~$ pwd
/tank/home/koch
koch@c-143-002:~$ echo $SHELL
```

give me
back what I give you

sys var

```
koch@c-143-002:~$ echo SHELL
SHELL
koch@c-143-002:~$ echo $SHELL
/bin/bash
koch@c-143-002:~$
```

```
koch@c-143-002:~$ ls -l -a
```

I longer info → see files with (.) hidden

BASH – Born Again Shell

.bashrc

- system config file
- rc stands for resource configurator
- set of commands executed when a new shell is opened
- useful for alias


```
koch@c-143-002:~$ alias
alias a2pswei='a2ps -r --columns=2 -j -i -b -o'
alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo term:
-e '\''s/^\s*[0-9]\+\s*//;s/[[&|]\s*alert$//'\''"'
alias atops='~/bin/a2ps -nP -1 -nd -nL -p -q -s -nH'
alias atops2='~/bin/a2ps -nP -2 -nd -nL -l -q -s -nH'
alias c='clear'
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias h='history 24'
alias kochmysql='mysql -h 193.196.143.168 -u koch -p'
alias kochmysql2='mysql -h 193.196.143.168 -u koch -p'
alias kochrapid='/opt/rapidminer-studio/RapidMiner-Studio.sh'
alias l='ls -CF'
alias la='ls -A'
alias ll='ls -a -l'
alias ls='ls --color=auto'
alias newterm='xwsh -fg black -bg aliceblue -geometry 100x50 &'
alias rapid='java -jar ~koch/Rapid/rapidminer/lib/rapidminer.jar'
alias rdesk='rdesktop -u student -f 193.196.141.10:10040'
```