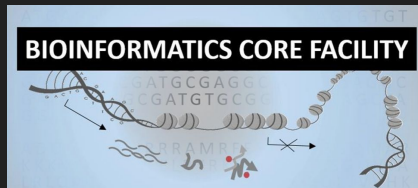


Welcome to ABC.9

28. November 2024

<https://abc.au.dk>

abcafe@au.dk



Health
Data Science
Sandbox

Agenda

- What's new
- Interesting things from you?
- Topic presentation
- Tutorial and/or open coding

What's new

Some updates

- We have a unified mail for the ABC:
abcafe@au.dk
- Use our newsletter and suggestion forms at the homepage
abc.au.dk

What's new

Some updates

- Next cafe dates

Dec 12

Jan 16

Jan 30

Feb 6

Feb 27

Mar 13

- You will always get an invitation if you are on the newsletter

What's new

GenomeDK Workshop

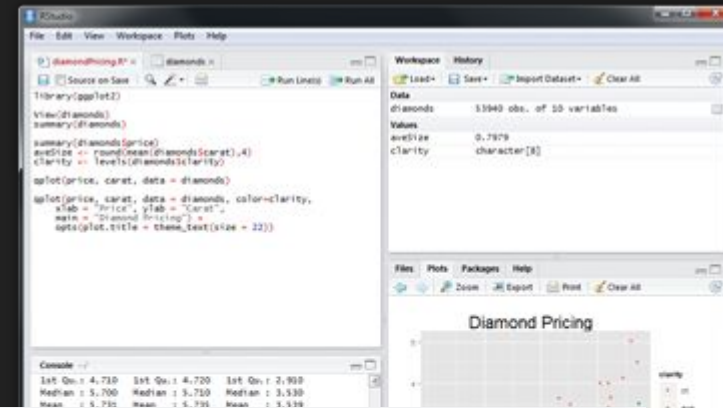
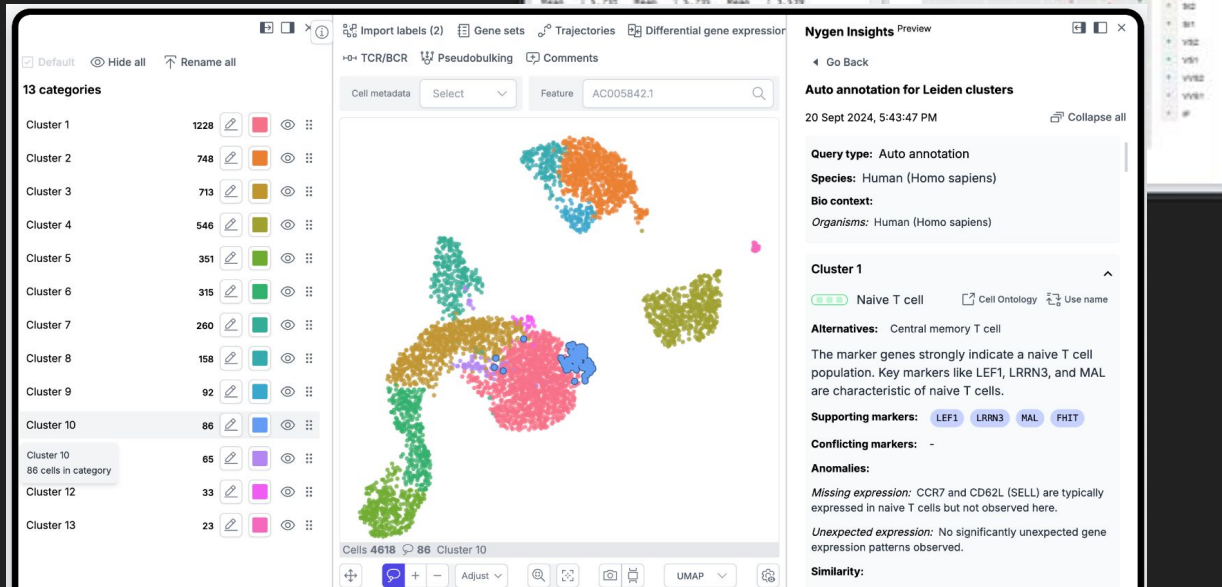
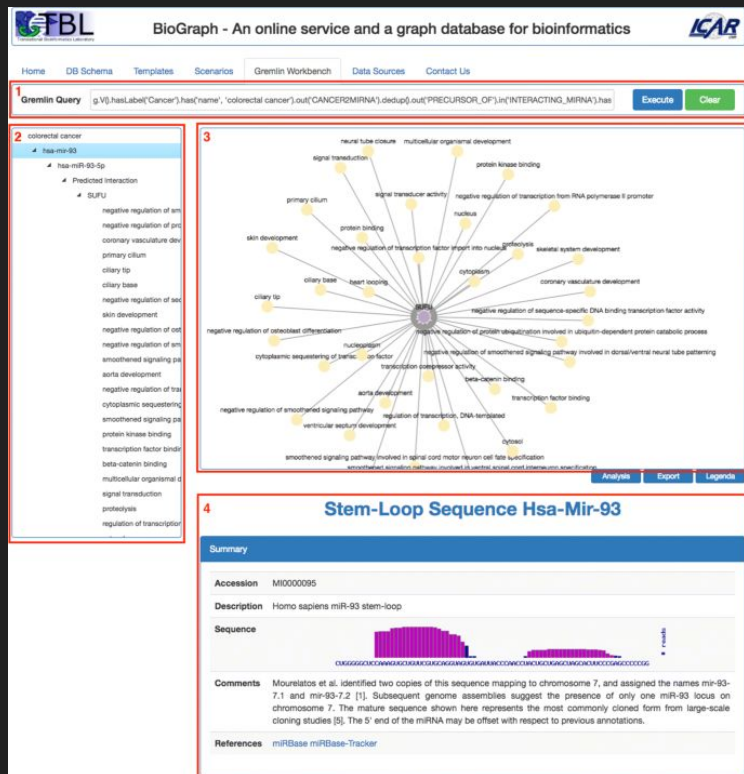
- First half of 2025 - 1 informational + 3 practical workshops
- Will cycle through the second half of 2025 as well
- All users of GenomeDK will get an announcement through GDK newsletter
- Topics: Intro, advanced usage, pipelines, some useful linux stuff
- Some invitation around the departments will also be sent through outlook and the ABC newsletter

Tutorial topic

Graphical applications on GenomeDK

Graphical applications

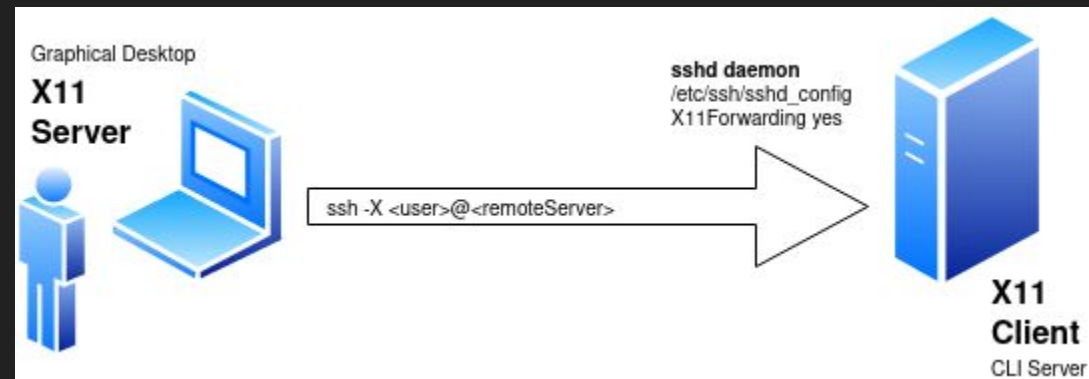
What are they?



Graphical applications

How do they run?

1. X11 forwarding
 - a. a quite old system
 - b. all graphical data travels from GDK to your pc through the ssh connection
 - c. any action taken on the pc has the consequence of new graphical data traveling through the network to your pc
 - d. very laggy because of the amount of data traveling

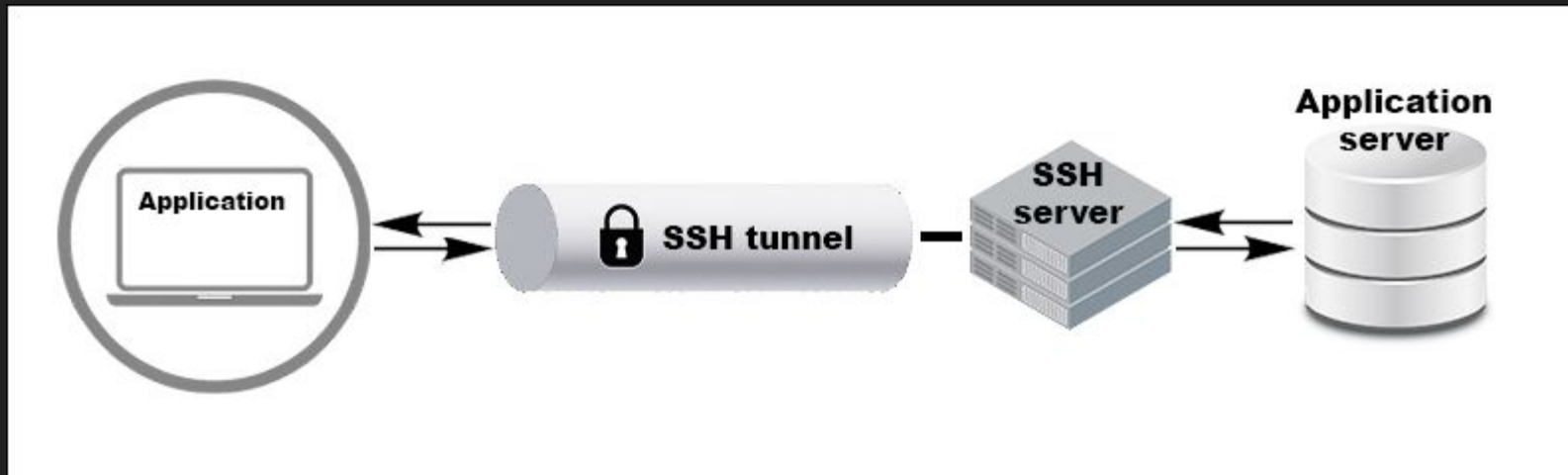


Graphical applications

How do they run?

2. Web based applications

- a. A web server launching the application runs on GDK
- b. The web server sends only scripts/instructions to your pc
- c. The browser takes actions to create the graphics locally from the scripts
- d. faster and lighter, very little data is transmitted compared to X11 forwarding

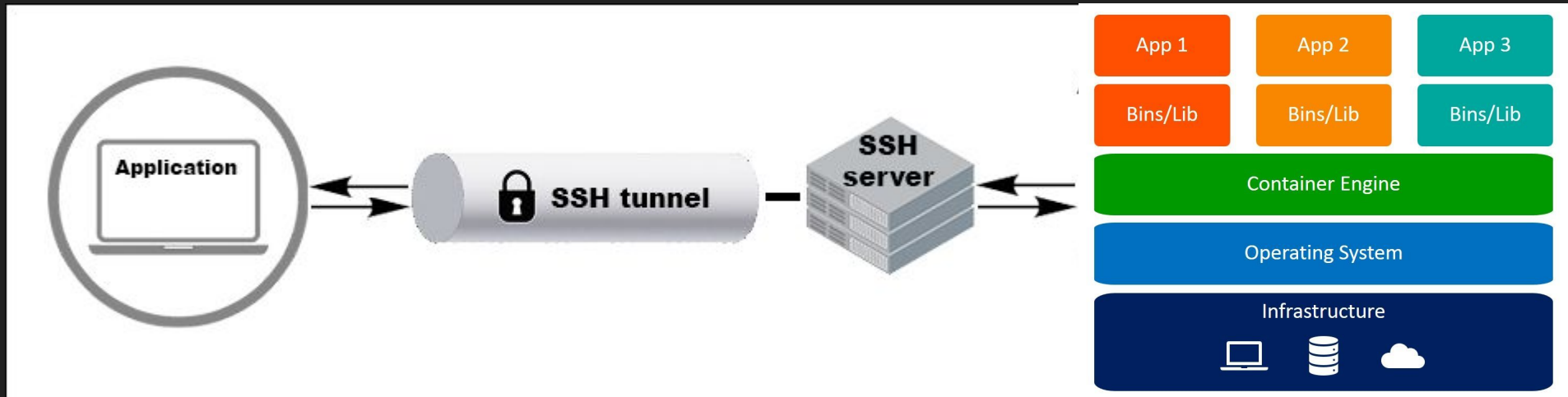


Graphical applications

How do they run?

3. Containers

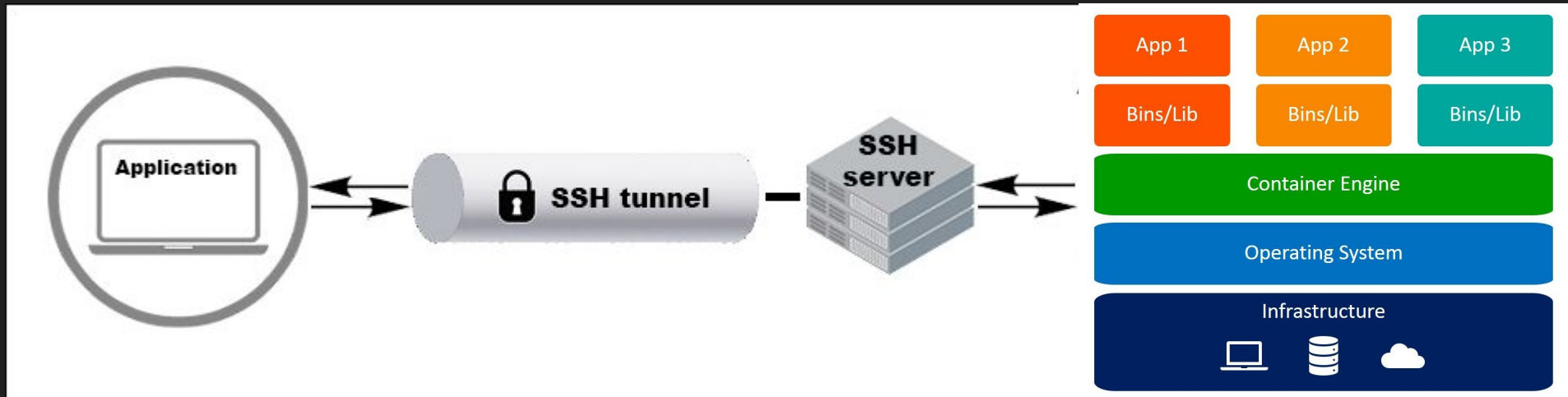
- a. no installation required
- b. all software installed and packaged into a file
- c. most times immediate to launch and use



Graphical applications

What we show today?

1. Web based application from conda environment (jupyterlab)
2. Container application (Rstudio server)



Tutorial and open coding

At our home <https://abc.au.dk/Documentation> you can find

- Tutorials including today's
- 1 conference workshop

Or you can code and ask for help or generic coding/bioinf/data science questions

