

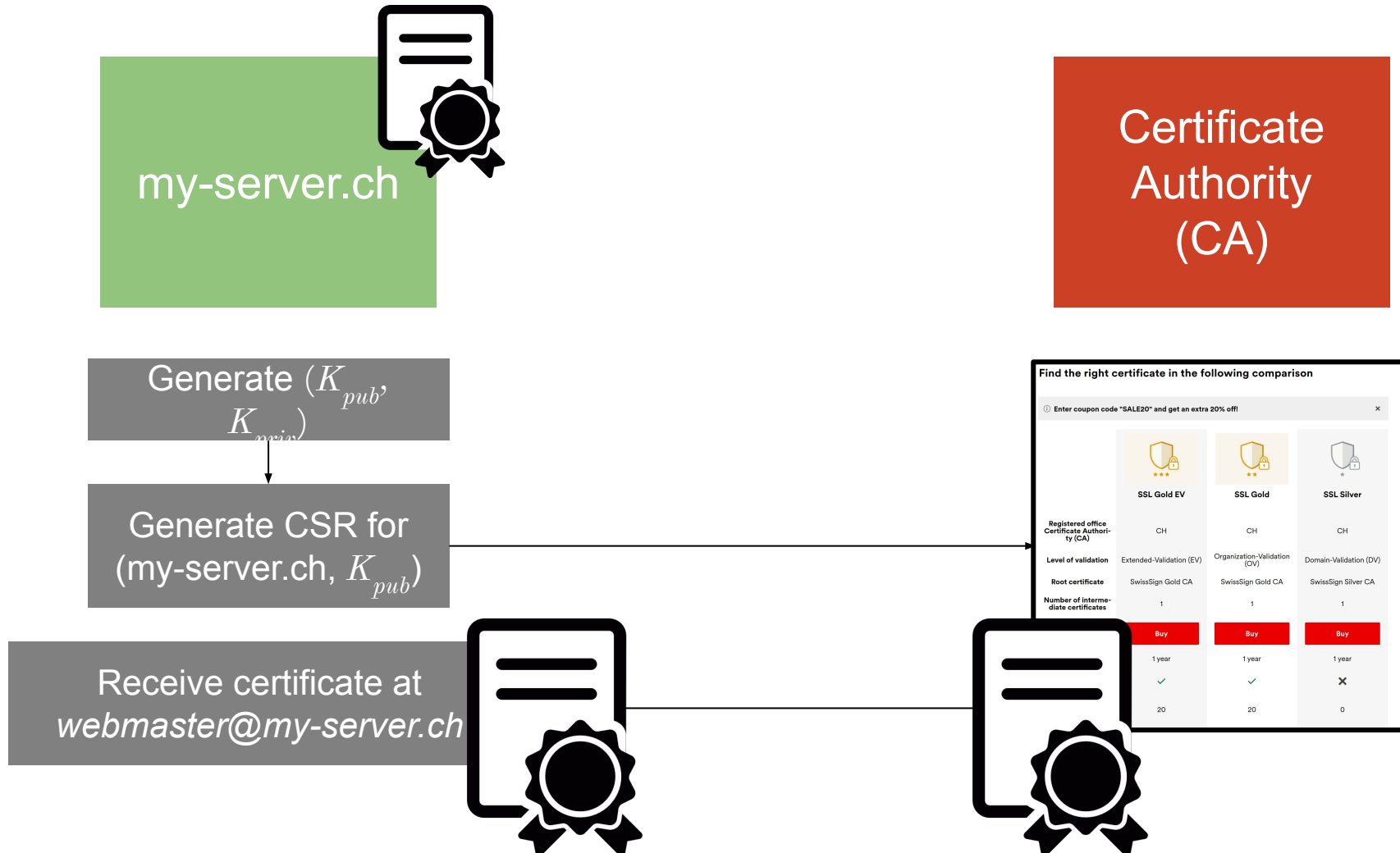
# Exercise Session 1

## Introduction to the ACME Project

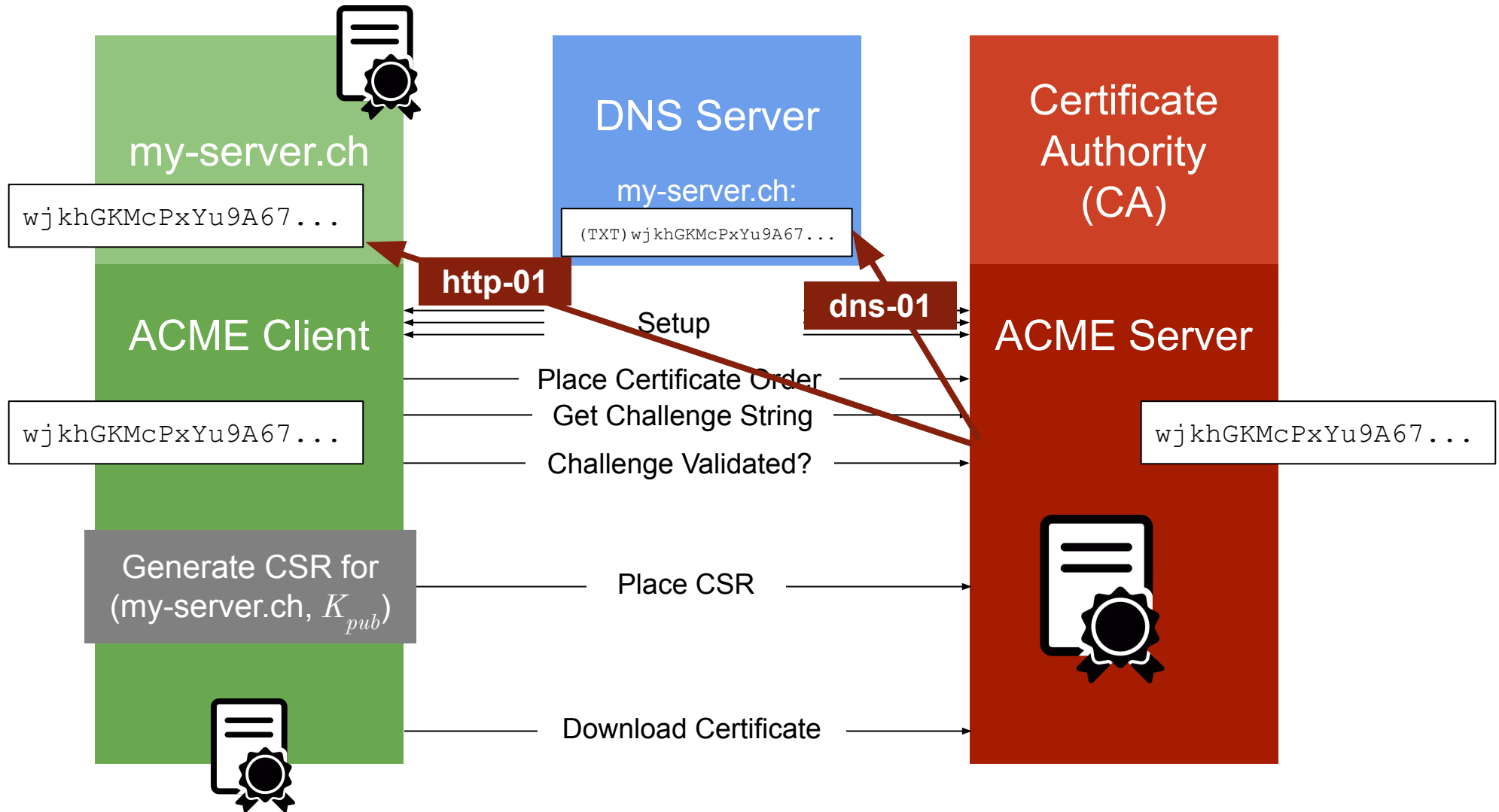
Simon Scherrer



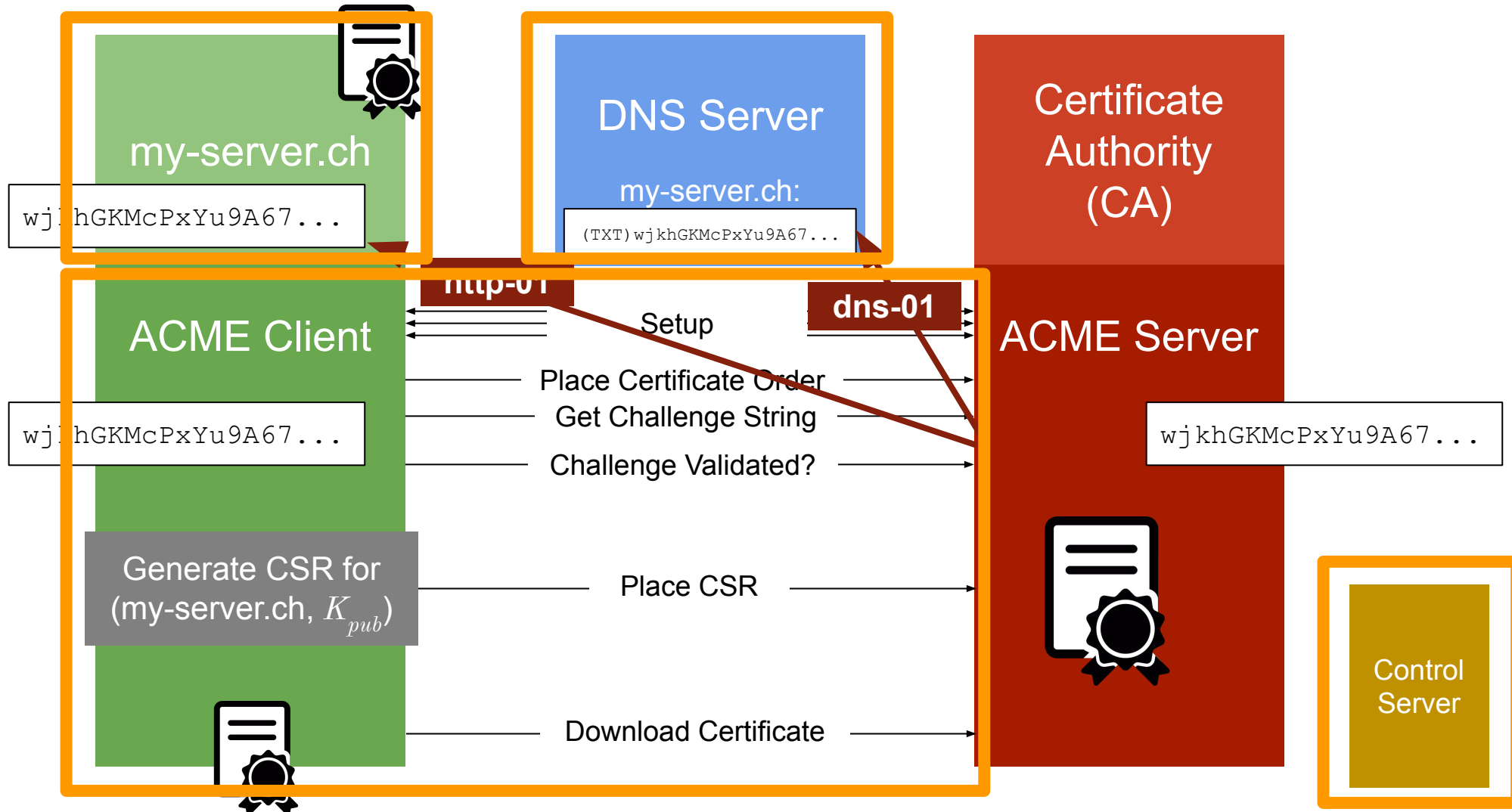
# Obtaining a Certificate - The Classic Way



# Obtaining a Certificate - ACME (sketch)



# What You Have to Implement in the Project












# Information about the Project

- Project description on [gitlab.inf.ethz.ch](https://gitlab.inf.ethz.ch) at *NetSec 2020 Student Resources / projects*
- ACME is very well documented in RFC 8555. Reading and understanding a standard is a large part of this project.
- A repository with a code skeleton has been initialized for you on [gitlab.inf.ethz.ch](https://gitlab.inf.ethz.ch)
  - If you registered for the course recently, there may not be a repository for you yet



# Information about the Project

- Whenever you push to your repository, your code will be automatically tested by CI

CI / CD	Pipelines					
	Jobs					
	Schedules					
	Status	Pipeline	Triggerer	Commit	Stages	
	 passed	#88505 latest		master  e083e3f6 change CI configuration	 	 00:00:29  2 hours ago

- **passed** only means that the tests ran through, not that your implementation passed the tests!

Actual score  
from output of job  
*give\_score*:

```
38 $ evaluator
39   http-single-domain: [.....] 0/7
40   http-multi-domain: [.....] 0/7
41   dns-single-domain: [.....] 0/7
42   dns-multi-domain: [.....] 0/7
43   dns-wildcard-domain: [.....] 0/7
44   http-revocation: [.....] 0/7
45   dns-revocation: [.....] 0/7
46   invalid-certificate: [.....] 0/7
47   fresh-public-keys: [.....] 0/7
48   overall-result: [.....] 0/63
```



# Information about the Project

- Don't use the Gitlab testing for debugging, as the computational resources are limited
- Better use **Pebble**, an ACME server implementation that you can run locally on your machine
- Last submission before  
**6 November 2020**  
**23:59**  
determines grading.



# Questions?

- If you have any questions during the project time, please use the Gitlab issues (as for the course)