

# Application Security

## Exercise Set 4, Python

1. Install a local Certificate Authority on your favourite operating system. Demonstrate a full process of issuing a SSL Certificate for a website tubrzoa.pl.  
[5p]
2. Explain how securing e-mails works including *S/MIME*. Show how to encrypt and sign e-mails in practice. Prepare a demo.  
[10p]
3. Find classes for X.509 PKI in your favourite technology. Create 3 examples which implement some operations where certificates are involved.  
[5p]

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