

Application Security

Exercise Set 3

In order to solve the following problems all agreed technologies are allowed.

1. Prepare 3 examples for XPath, DOM and JSON injections in your favourite technology (one for every type of attack).
[2p]
2. Find several methods how cookies may be attacked.
[2p]
3. Find several methods how HTTP headers may be attacked.
[2p]
4. Investigate what possibilities give your favourite technology to secure passwords in configuration files. Prepare a working example to demonstrate.
[1p]
5. Investigate how exactly works “crumb” protection against CSRF attack in your favourite technology.
[1p]
6. Prepare examples which explain how your favourite technology mitigates unvalidated redirect risk. Among others consider an example with authentication included as a link in the presentation.
[2p]

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