**Reducing the Browser Attack Surface**

**Remove, disable or limit:**

* Java
* Flash
* Silverlight

**Remove anything that isn’t in use**

If it isn’t installed, it can’t be exploited

**Also disable or limit:**

* JavaScript
* Browser Applications e.g., PDF Reader

**Java** is only used by 0.1% of websites

* Programming language, creates applications that run in a VM or browser
* Code needs to be compiled

**Flash** plays videos but has been superseded by the safer HTML5

**JavaScript** is a scripting language that is run on a browser only

* Code doesn’t need to be compiled, is in text
* 90% of sites use JavaScript
* JS has been used previously by the NSA to de-anonymise users visiting specific websites

**QuickJava**

Extension that allows you to easily and quickly disable/enable Flash, Java, SilverLight and others

If anonymity is imperative, JS **cannot** be enabled at all

If you want to use JS and not hinder other websites, then further mitigating controls will need to be used