

Rise of safe, remote cmdline tools



- Java had good security long before security was cool
 - signing
 - permission control
 - sandboxing
 - remote launching protocol
 - auto updates

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- Also the javaws and plugin were always closed
 - no public audit while there was time
 - 0Day exploits before bugbounty was cool



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- java plugin was never favourite

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- IcedTea-Web
 - open implementation of javaws and plugin
 - Fully compatible with oracle javaws (and plugin)
 - architecture completely different

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- Plugin is dead
- IcedTea-Web has some time for fun
 - javaws -html
 - offline mode
 - full desktop integration
 - headless mode
 - custom sandbox

- if interested, see for details:

<https://jvanek.fedorapeople.org/fosdem/itwGoesOffline-4014/itwGoesOfflineAndBeyond.pdf>

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- Java is no longer slow monolith
 - hardware finally catch up
 - so why don't use all those cool features in regular application

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- srcs
 - (sign)jar + deps
 - manifest+jnlp file
- on-path launcher
 - shipping **only** launcher
 - works fine also with html and applets
 - but please don't...

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- disadvantages
 - resources downloaded on (first) runtime
 - updated on launchtime
- advantages
 - resources downloaded on (first) runtime
 - updated on launchtime
- ITW have (hopefully) many settings to use this as advantages

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- Demo
 - Sources, jnlp, signing, launcher
 - Run
 - Headless
 - Custom sandbox
 - Offline