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installation

isolation

return to clean state

constellations with many Nodes

• N nodes, $N \gg 1$

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certificates

Problem: setting up a constellation

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- Problem: **installation**
 - Server-side applications with databases, web server configurations, various daemons (queues, caching...)
 - Written in many tech stacks, but any developer/tester only knows a few
- Problem: **isolation**
 - On public / shared test servers, 3rd parties may interfere with the test
- Problem: **return to clean state**
 - Any test should be run from a clean state, reset required
- Problem: **constellations with many Nodes**
 - E.g. Bob boosts Alice's post, Charlie replies to Bob, ... and then Alice deletes her post. Will it be deleted everywhere?
 - This is expensive to set up even once!
- Problem: **certificates**
 - Specs require HTTPS. Certificates behind the firewall?
 - Applications implement various defenses, like against server-side request forgeries

FediTest Project

- Protocol-independent interoperability test framework
 - For distributed, heterogeneous networks
 - Using complex protocols (like in the Fediverse)
- Test suite for the ActivityPub-based Fediverse
- “Node Drivers” for common Fediverse applications
- Can also be used for non-Fediverse protocol(s)