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FeeditProject

*Can also be used for non-Feddiverse protocol(s)

FediTest Project

	Status
<ul style="list-style-type: none">• Protocol-independent interoperability test framework<ul style="list-style-type: none">• For distributed, heterogeneous systems• Using complex protocols (like in the Fediverse)• Test suite for the ActivityPub-based Fediverse	Good 2-node systems tests: good 3-node systems tests: started Protocol tests: mixed
<ul style="list-style-type: none">• “Node Drivers” for common Fediverse applications	Mastodon: good WordPress+plugins: bugs + SaaS/Manual Node: good
	<hr/> ~10 KLOC

*Can also be used for non-Fediverse protocol(s)

Problem: setup of distributed state

- Example test: “If Alice follows Bob, does she receive his new posts?”
 - **Provided that ...**
 - @alice@a.example GETs @bob@b.example’s WebFinger file
 - @alice@a.example GETs @bob@b.example’s Actor file
 - @alice@a.example signs and POSTs a “follow” to @bob@b.example’s inbox
 - @bob@b.example GETs @alice@a.example’s WebFinger file
 - @bob@b.example GETs @alice@a.example’s Actor file
 - @bob@b.example validates @alice@a.example’s signature on the “follow”
 - @bob@b.example accepts the “follow”
 - @bob@b.example signs and POSTs an “accept” to @a@a.example’s inbox
 - @alice@a.example validates @bob@b.example’s signature on the “accept”
 - **Now this action ...**
 - @bob@b.example “creates” a “note”
 - **Leads to this desired result to be verified:**
 - @alice@a.example’s inbox receives the “create note”, correctly signed by @bob@b.example’s key
- Problem:
 - Many steps to get a.example and b.example into the state where the actual test can be performed