Experimentation on federated testbeds in Fed4FIRE

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Multiple technologies
Goals of federation

Make it easy for experimenters to use multiple testbeds
- Single account
- Single (or small number) of tools, choice of tools

Multiple testbeds
- To scale up
- To use/combine special resources (e.g. wireless robots)
- Redundancy (e.g. testbed in maintenance)
- To re-use experiments (class exercises, scientifically, …)
- To compare environments (e.g. wireless, openflow hardware, …)
Remotely Experiment with new technologies
#Testbeds usable with Fed4FIRE account: +65
jFed tool: easy access for testbeds (jfed.ilabt.imec.be)
Open access

Fed4FIRE testbed access is free for research

With limited use of resources
With limited best-effort support

There is a learning curve, certainly for more complex experiments
(or for interconnecting testbeds)
Very complex experiment (Geni Engineering Conference 25)
Upscaling
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