

# Benchmark tests

Test includes the Non-RT RIC components: Policy Management Service (aka Policy Agent), A1-Controller and A1 simulators

Tested on one Cloud VM - all components and simulators running on the same machine using docker - with the following spec: 4CPU, 16GB RAM and Ubuntu 18.04

Each test is using 20 A1-Simulator. 7 processes are running in parallel to create/delete a total of 10000 policies (500 in each of the 20 A1-Simulator)

"REST" in the table below indicate the NB REST interface of the Policy Management Service.

"HTTP" and "HTTPS" indicate which protocol has been used between the components.

Tested with the latest available images: Fri Jun 5 2020

Test case setup	Protocol	Operation	Time (seconds)
REST towards Policy Management Service connecting to the simulators	HTTP	Create policy	53
REST towards Policy Management Service connecting to the simulators	HTTPS	Create policy	86
REST towards Policy Management Service connecting via the A1-Controller to the simulators	HTTP	Create policy	67
REST towards Policy Management Service connecting via the A1-Controller to the simulators	HTTPS	Create policy	117
REST towards Policy Management Service connecting to the simulators	HTTP	Delete policy	42
REST towards Policy Management Service connecting to the simulators	HTTPS	Delete policy	51
REST towards Policy Management Service connecting via the A1-Controller to the simulators	HTTP	Delete policy	78
REST towards Policy Management Service connecting via the A1-Controller to the simulators	HTTPS	Delete policy	97