Installation choices

HEAnet perfSONAR workshop
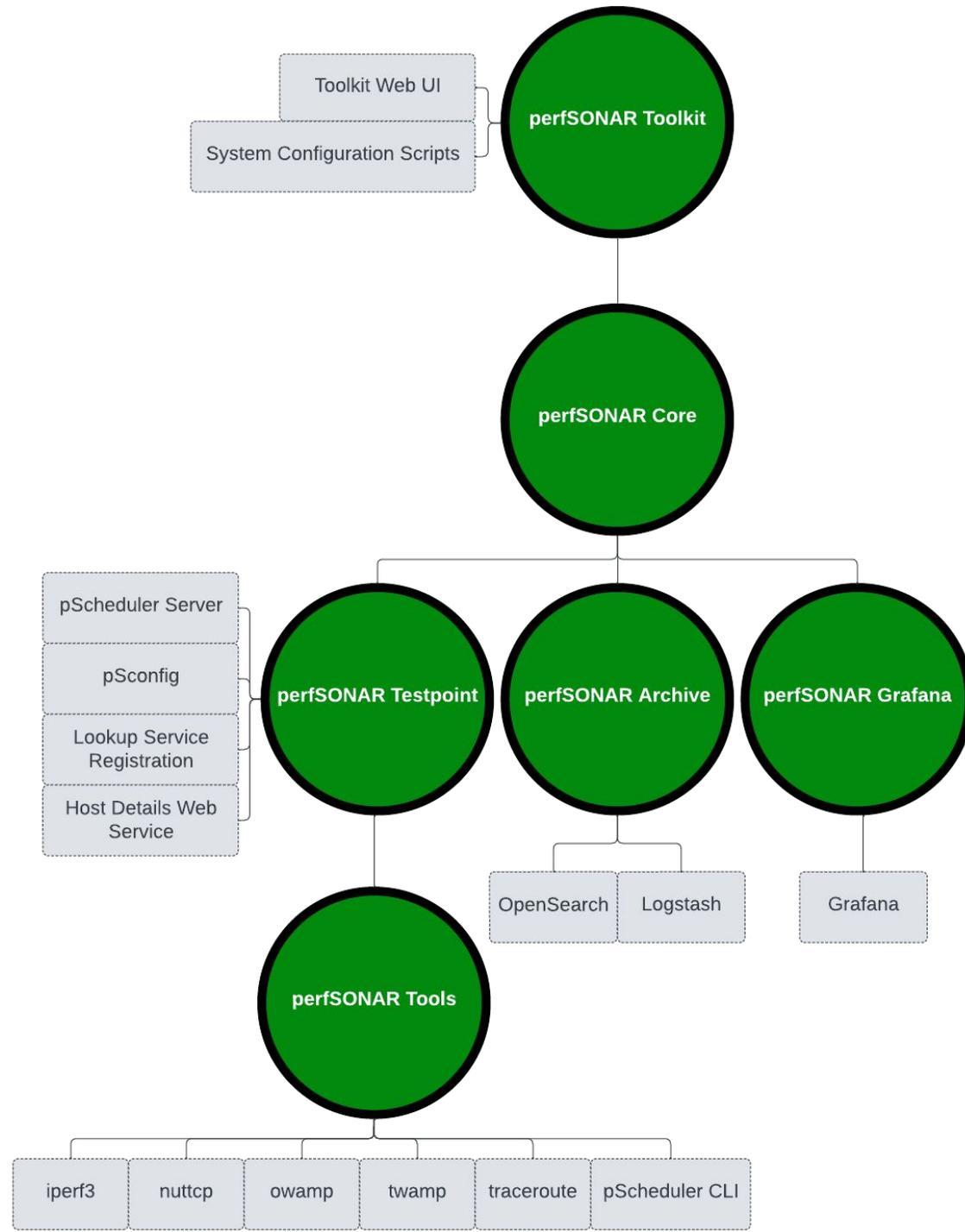
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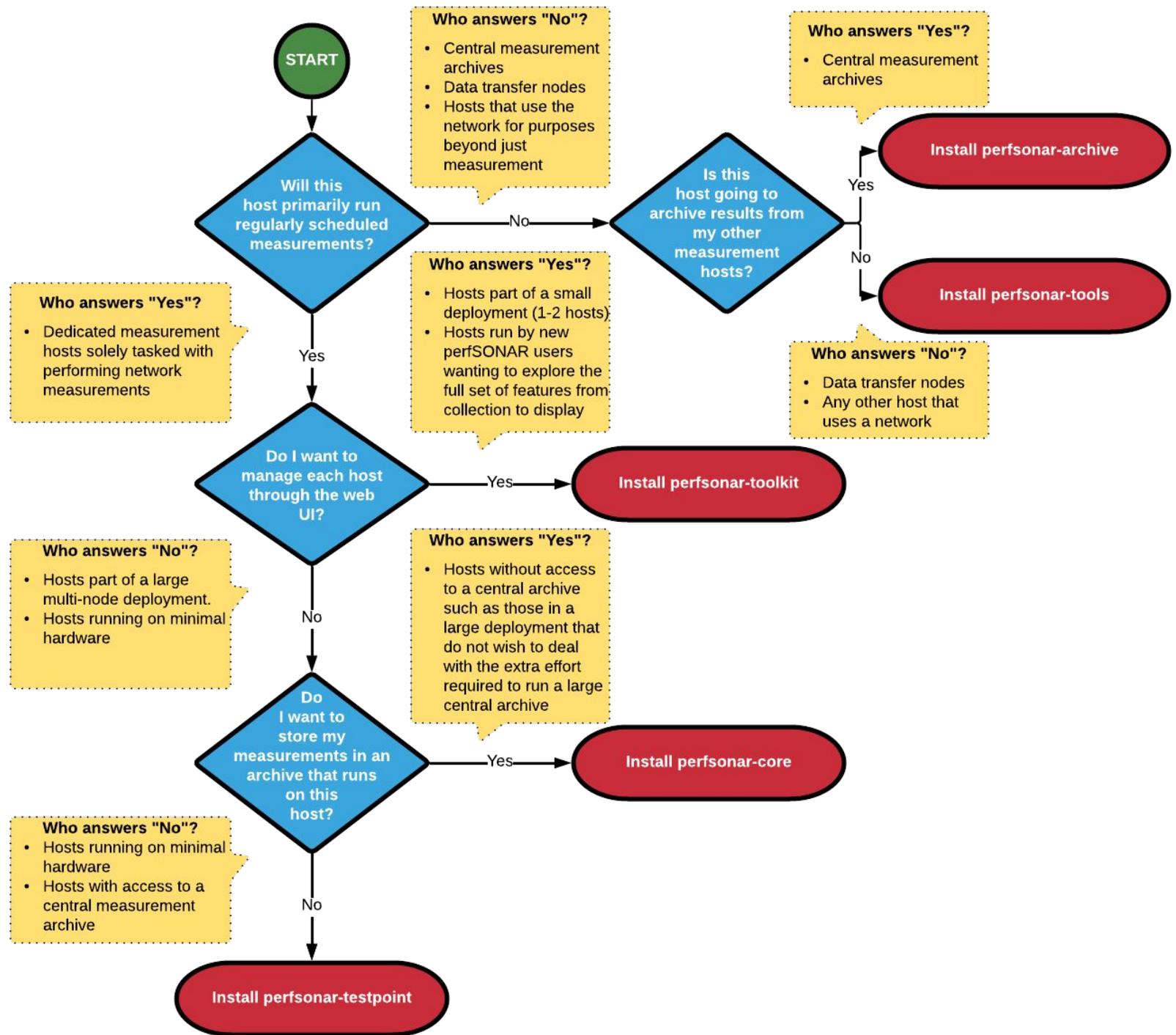
perfSONAR is developed by a partnership of

Installation options (bundles)

Choosing a bundle

START

Will this host primarily run regularly scheduled measurements?

Who answers "No"?
- Central measurement archives
- Data transfer nodes
- Hosts that use the network for purposes beyond just measurement

Who answers "Yes"?
- Hosts part of a small deployment (1-2 hosts)
- Hosts run by new perfSONAR users wanting to explore the full set of features from collection to display

No → Is this host going to archive results from my other measurement hosts?

Who answers "Yes"?
- Central measurement archives

Yes → Install perfsonar-archive

No → Install perfsonar-tools

Who answers "No"?
- Data transfer nodes
- Any other host that uses a network

Who answers "Yes"?
- Dedicated measurement hosts solely tasked with performing network measurements

Yes ↓

Do I want to manage each host through the web UI?

Yes → Install perfsonar-toolkit

Who answers "No"?
- Hosts part of a large multi-node deployment.
- Hosts running on minimal hardware

No ↓

Do I want to store my measurements in an archive that runs on this host?

Who answers "Yes"?
- Hosts without access to a central archive such as those in a large deployment that do not wish to deal with the extra effort required to run a large central archive

Yes → Install perfsonar-core

Who answers "No"?
- Hosts running on minimal hardware
- Hosts with access to a central measurement archive

No ↓

Install perfsonar-testpoint

3

Hardware requirements

- Minimum spec:
  - **4 CPU** cores
  - **8 GB RAM** (and 4 GB swap space)
  - **20 GB disk** space
- perfSONAR archive and toolkit:
  - more disk space, more RAM
  - exact amount depends on number of tests, to be tuned
- By order of preference:
  - Bare metal server
  - VM is fine too
  - We provide a container image for the Testpoint
- More at https://docs.perfsonar.net/install_hardware.html

OS requirements

- Debian and Ubuntu:
  - **Debian 11** Bullseye
  - **Debian 12** Bookworm
  - **Ubuntu 20** Focal Fossa
  - **Ubuntu 22** Jammy Jellyfish
  - **Ubuntu 24** Noble Numbat
  - Other derivatives might work too
  - Support for both AMD64 and ARM64 CPU architecture
- **Alma 9** & **Rocky 9** Linux
  - Only x86_64 CPU architecture supported
- **Container** image is using Ubuntu 22
  - Working fine with Docker or Podman, can also be deployed on K8