

Tracing and accounting of hardware resources in computer center

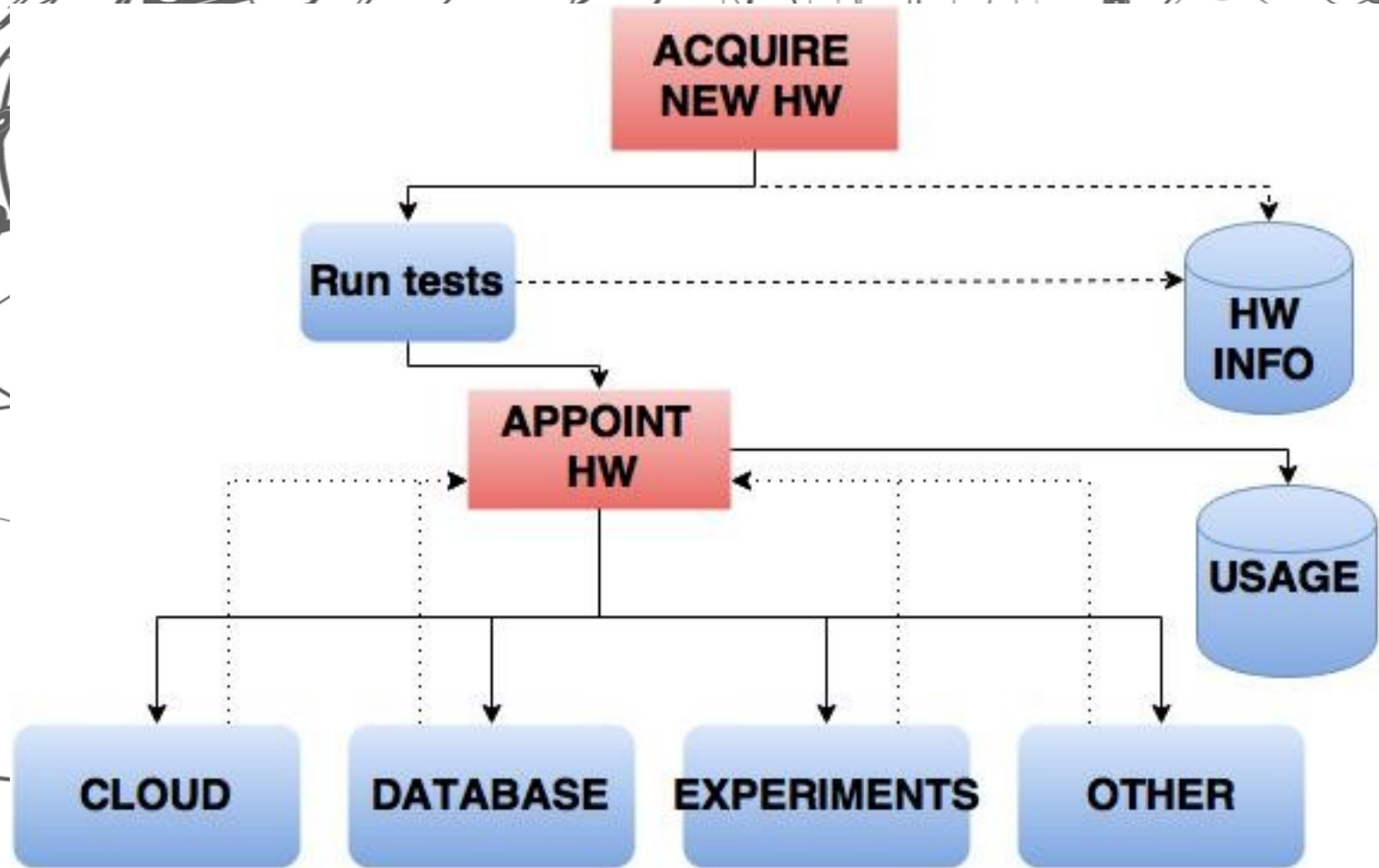
IT-PES

Josip Domšić

Supervisor: Ulrich Schwickerath

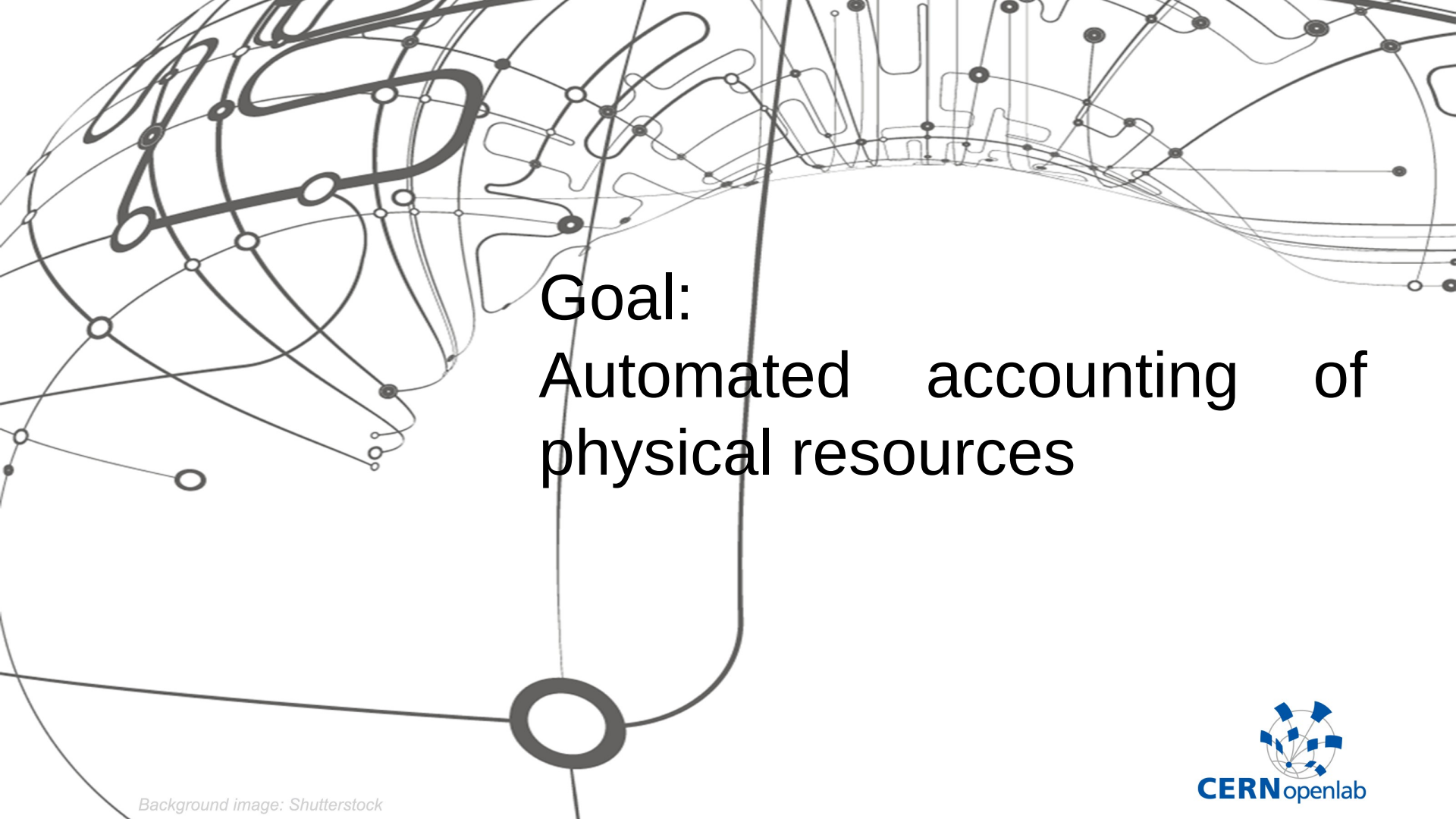
The background of the slide is a complex, abstract network diagram. It consists of numerous interconnected nodes, represented by small circles, and a dense web of lines of varying thicknesses. Some lines are thicker and more prominent, while others are thin and light gray. The overall structure is organic and non-linear, suggesting a complex system or workflow. The text 'Typical work flow' is centered over this background.

Typical work flow

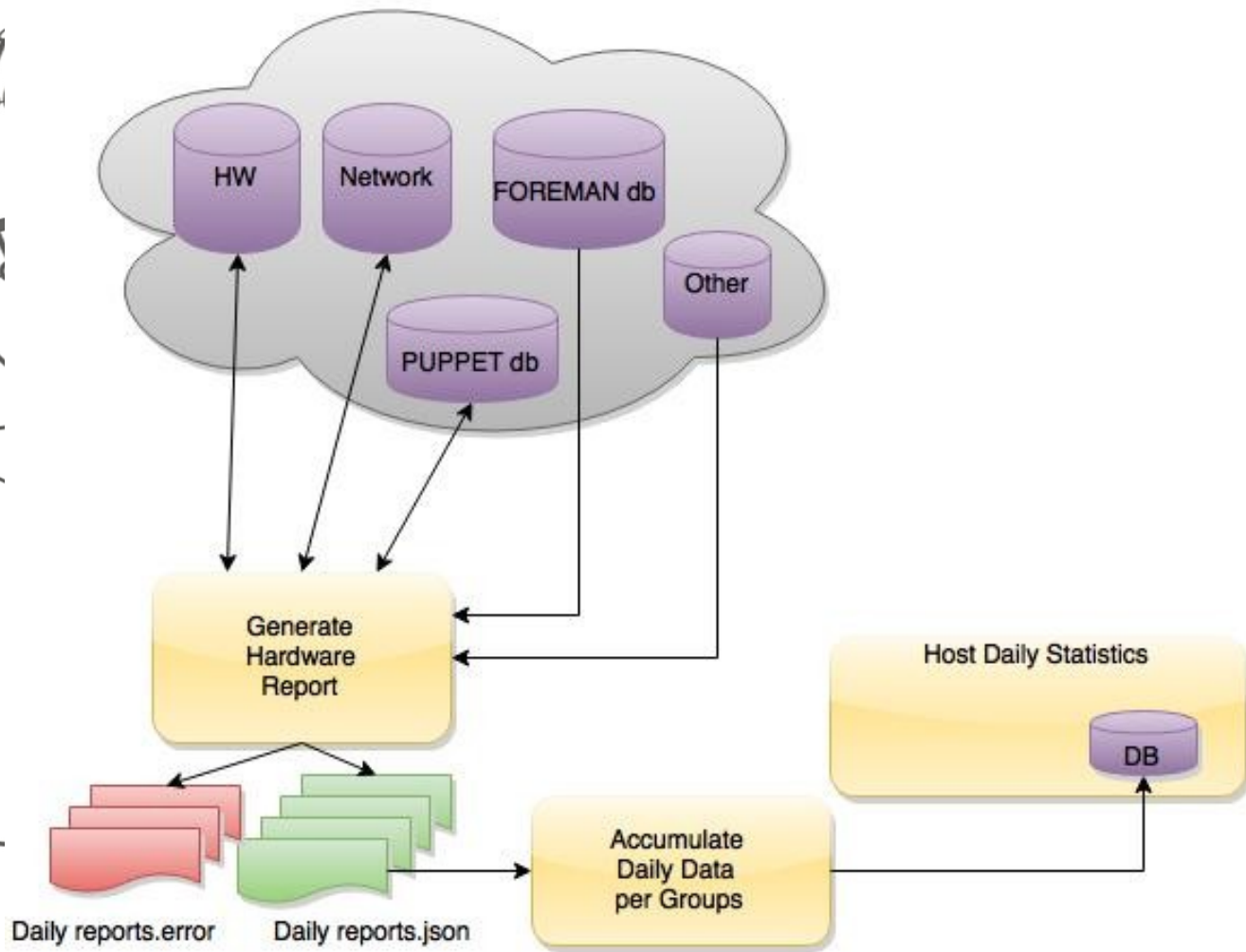
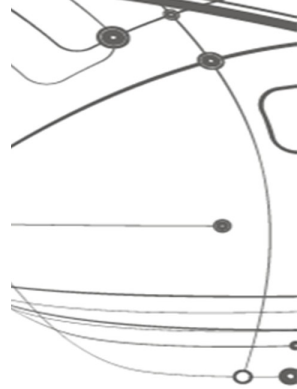


The background of the slide is a complex, abstract network diagram. It consists of numerous nodes, represented by small circles, connected by thin lines. Some nodes are highlighted with larger, thicker circles. The lines form a dense, interconnected web that spans the entire width of the slide, with a slight curve at the top. The overall aesthetic is technical and digital.

What to trace? Used or forgotten



Goal:
Automated accounting of
physical resources



Usage of Hardware report usage - statistics from Aug. 1, 2015 to Aug. 1, 2015

Department	Group	User	# Machines	# Physical Cores	# Logical Cores	HEP Spec 06	# Unmanaged (% machines)	# Stale (% machines)	# Not in production (% hep spec06)
A			2	2	2	2	2 (100)	2 (100)	2 (100)
	A1		1	1	1	1	1 (100)	1 (100)	1 (100)
	A2		1	1	1	1	1 (100)	1 (100)	1 (100)
		A-A2	1	1	1	1	1 (100)	1 (100)	1 (100)
C			1	1	1	1	1 (100)	1 (100)	1 (100)
B			1	1	1	1	1 (100)	1 (100)	1 (100)
D			1	1	1	1	1 (100)	1 (100)	1 (100)

Search parameters

Start date:	<input type="text" value="2015-08-01"/>
Stop date:	<input type="text" value="2015-08-01"/>
Group for usage accounting:	<input type="text" value="ATLAS CMS LHC"/>

Conclusion

- | Project in production stage since last week
- Fully automated data collection
- Eliminate inconsistencies between databases on a daily basis