

## ClusterVision in a nutshell



Turn-key AI, HPC, Big Data & Cloud solution provider 20 YRS

Leading SME specialist for HPC

+008

Projects successfully completed



Partnership with PacificTeck for the Japanese market



Developer of TrinityX,
The open source
cluster manager

20+

Top500 HPC Installations historically

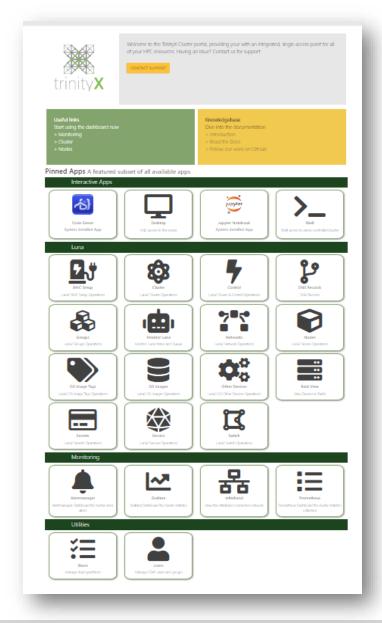
We know HPC



## Open Source HPC & AI Cluster Manager designed to make your cluster agile, reliable, and responsive to your organizational needs

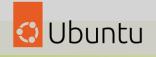
- Designed ground up to provide all services required in a modern HPC system
- Allows full customization of your cluster installation
- Dramatically speeds up installation time and reduces administrative efforts
- Allows for unified management of HPC, A/I and cloud bounced clusters
- Follows the tool-box approach
- Very modular

https://github.com/clustervision/trinityX









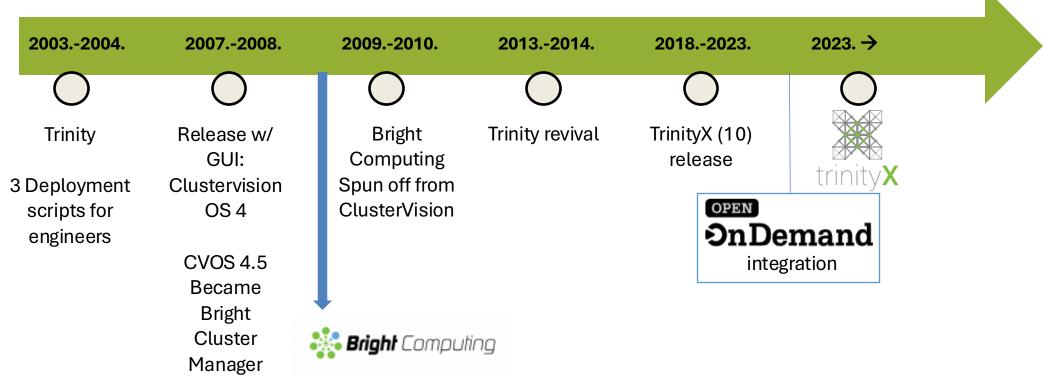




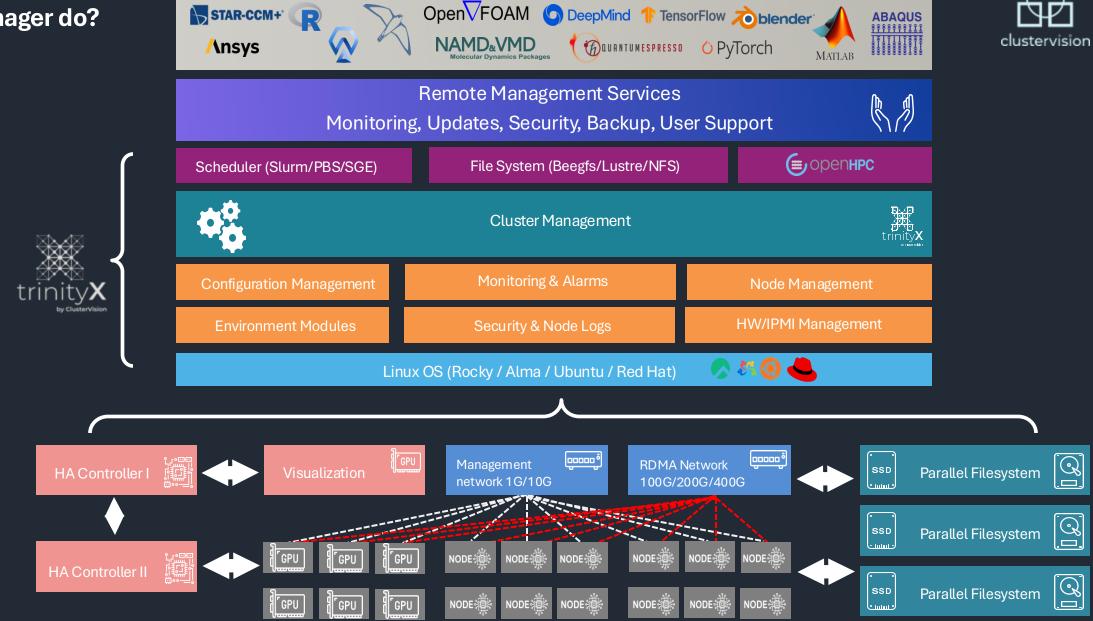




### **Brief history of TrinityX**



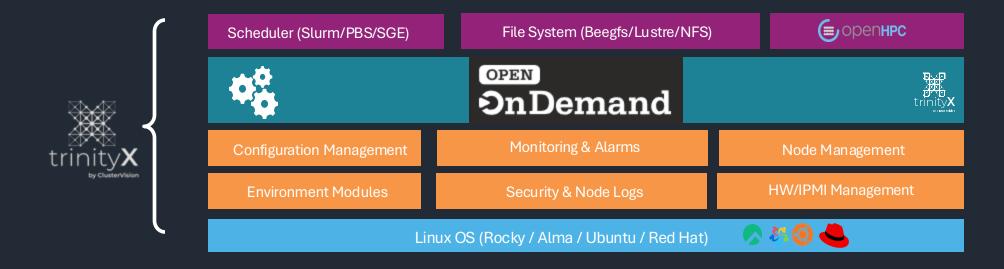
# What does a cluster manager do?



# What does a cluster manager do?



# It's the glue between the many components and manages the flow of an AI/HPC cluster

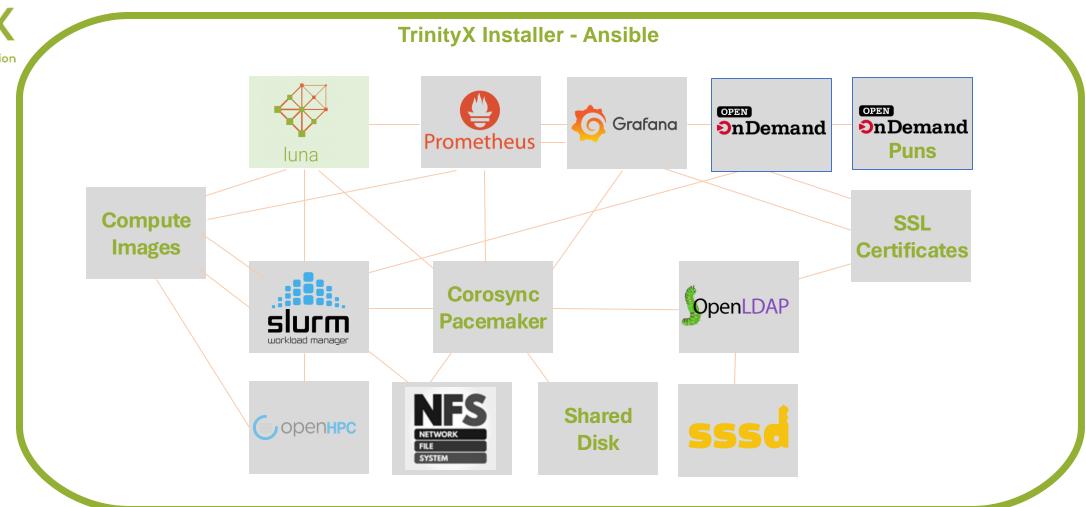


Most commonly, a cluster manager is command line driven, however OpenOndemand integration provided a sturdy graphical framework for our in-house developed applications.

This, of course besides off-the-shelve third party applications for administrators but also users! The latter is not so standard.

# trinity X by ClusterVision

## Main components of TrinityX in tin-foil hat formation





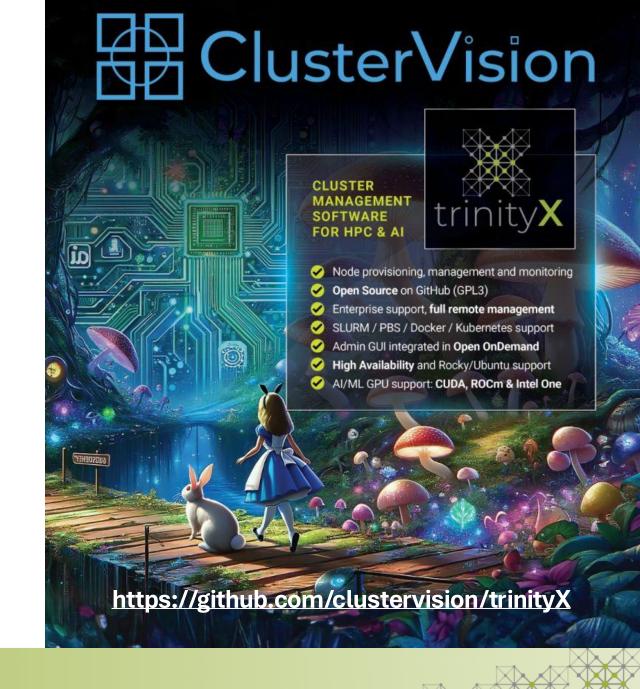
## Demo Time!!

## **THANK YOU!**

Feel free to contact our partner:

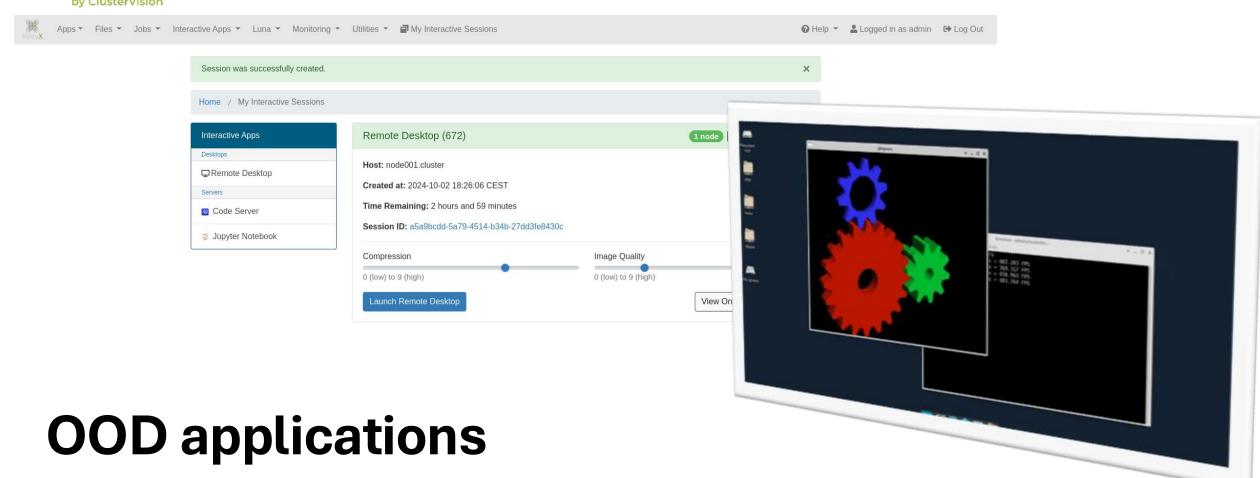


www.pacificteck.com E-mail: <a href="mailto:sales@pacificteck.com">sales@pacificteck.com</a>





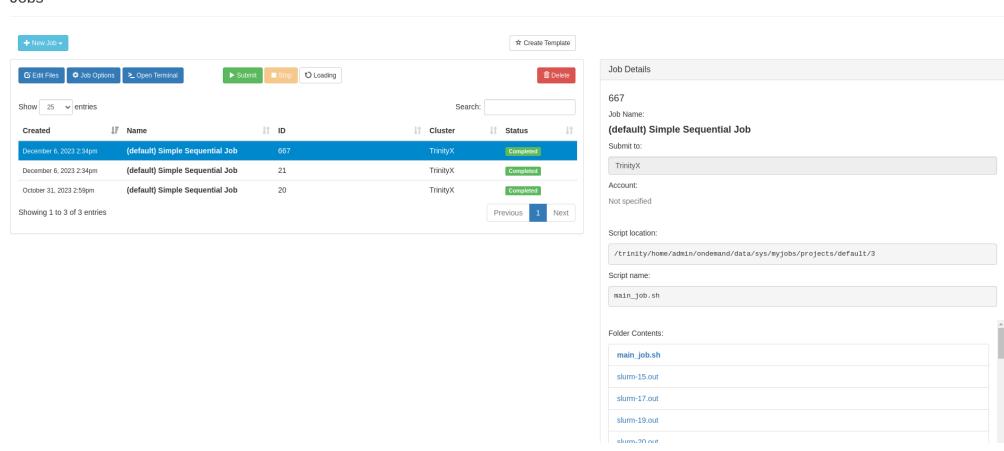
### Starting a stateful remote desktop



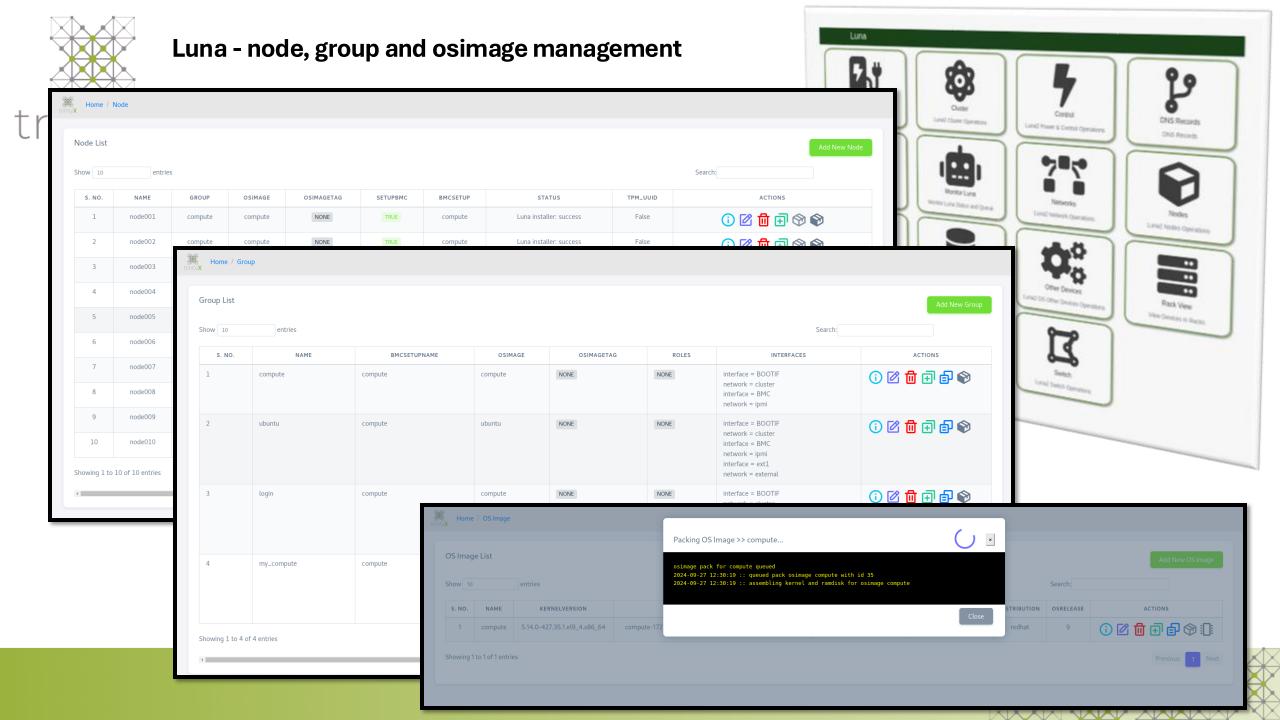
# Submit a job based on template or custom script

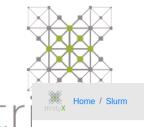
Jobs

by ClusterVisior

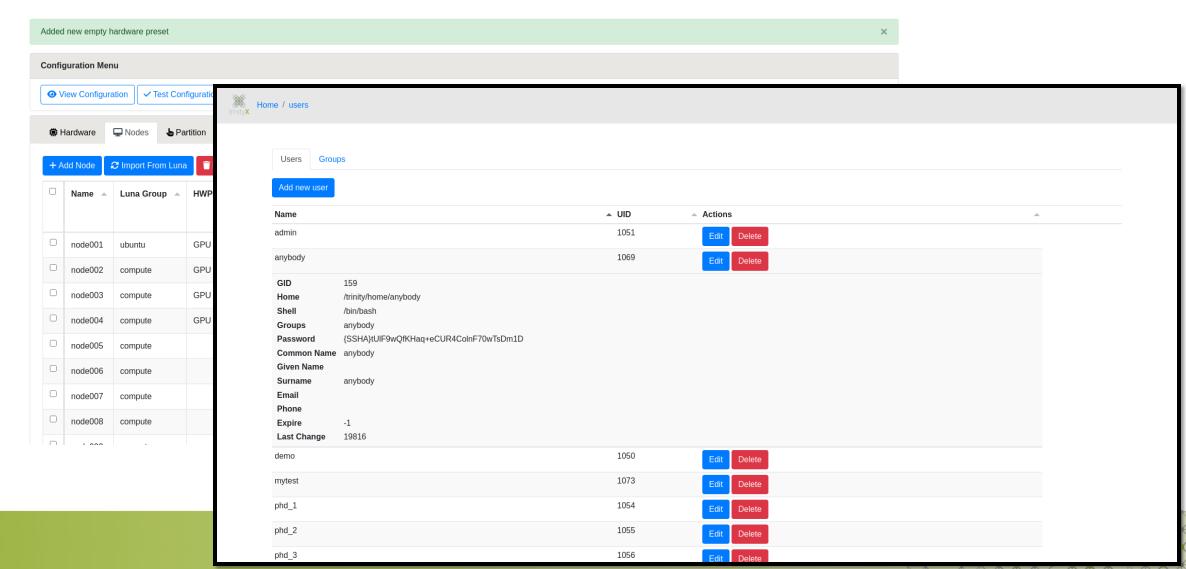


Help



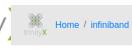


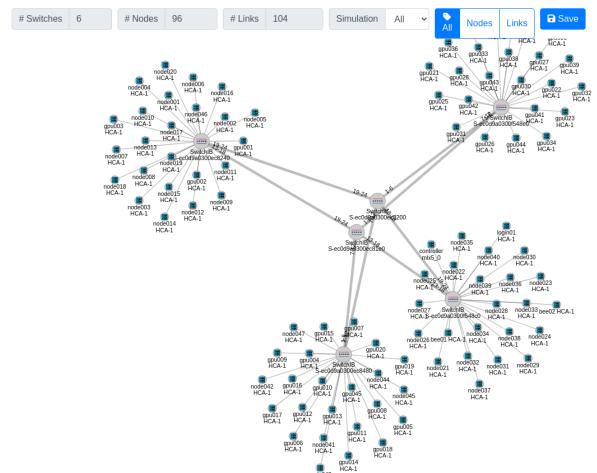
## Slurm configurator and user management



# trinity Ho

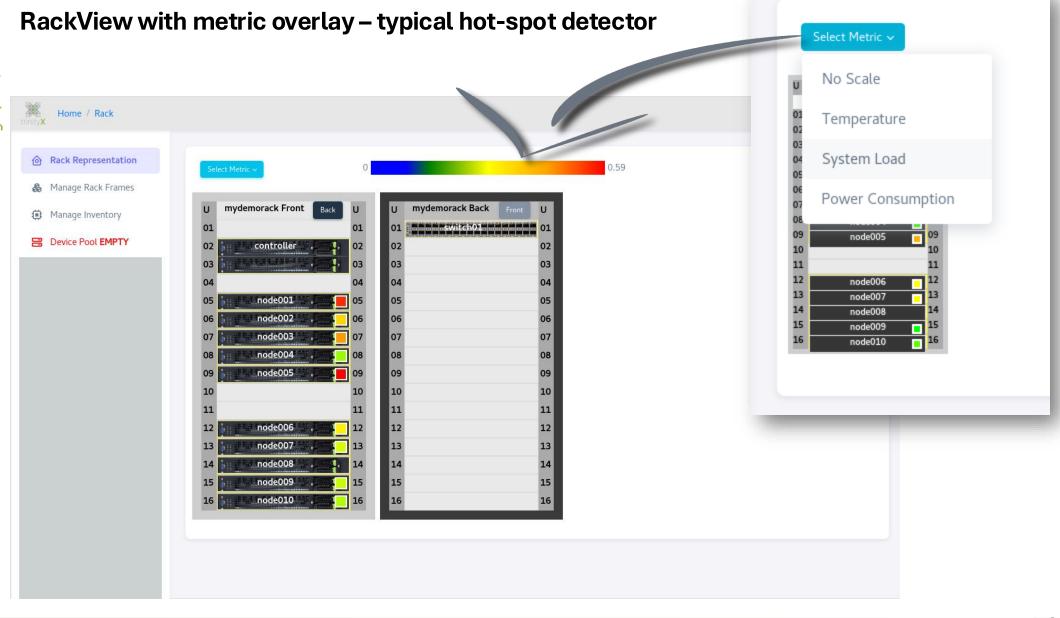
## Infiniband Diagnostics – identifies bad links easily





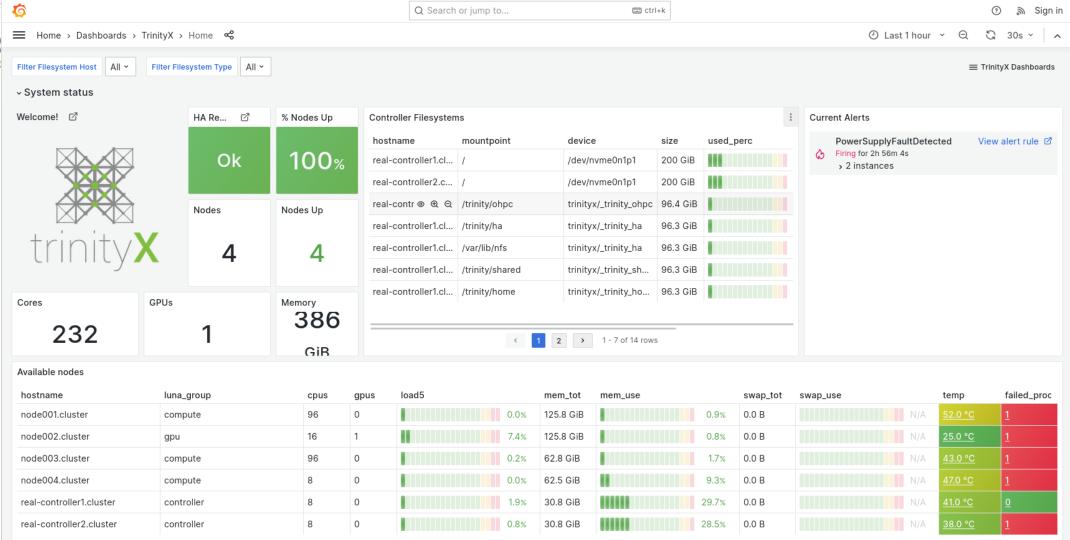
Name	UID	Port	_	Target
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	S-ec0d9a0300ec8240			
■ SwitchIB Mellanox Technologies	S-ec0d9a0300ec8480			
$\ \ \blacksquare \ \ SwitchIB \ \ Mellanox \ \ Technologies$	S-ec0d9a0300f548e0			- 1
■ SwitchIB Mellanox Technologies	S-ec0d9a0300ec8200			
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	S-ec0d9a0300ec81e0			- 1
■ SwitchIB Mellanox Technologies	S-ec0d9a0300f548c0			
node019 HCA-1	H-506b4b03003fa98a			
node017 HCA-1	H-506b4b03003fa9a2			
node015 HCA-1	H-506b4b030043f9b2			
node013 HCA-1	H-506b4b030043f9aa			
■ node011 HCA-1	H-506b4b030043fa72			
node009 HCA-1	H-506b4b03003fa952			
■ node007 HCA-1	H-506b4b030041d02a			
node005 HCA-1	H-506b4b03003fa9a6			
■ node003 HCA-1	H-506b4b030043fa6e			
node001 HCA-1	H-506b4b03003fa962			
■ gpu002 HCA-1	H-506b4b030043fa3e			
gpu003 HCA-1	H-506b4b030043fa86			
■ node046 HCA-1	H-08c0eb0300ddc0f6			
■ gpu001 HCA-1	H-506b4b030043f9f6			
■ node004 HCA-1	H-506b4b030043f9de			
	11 FOCE 45 0000 404050			<b>*</b>



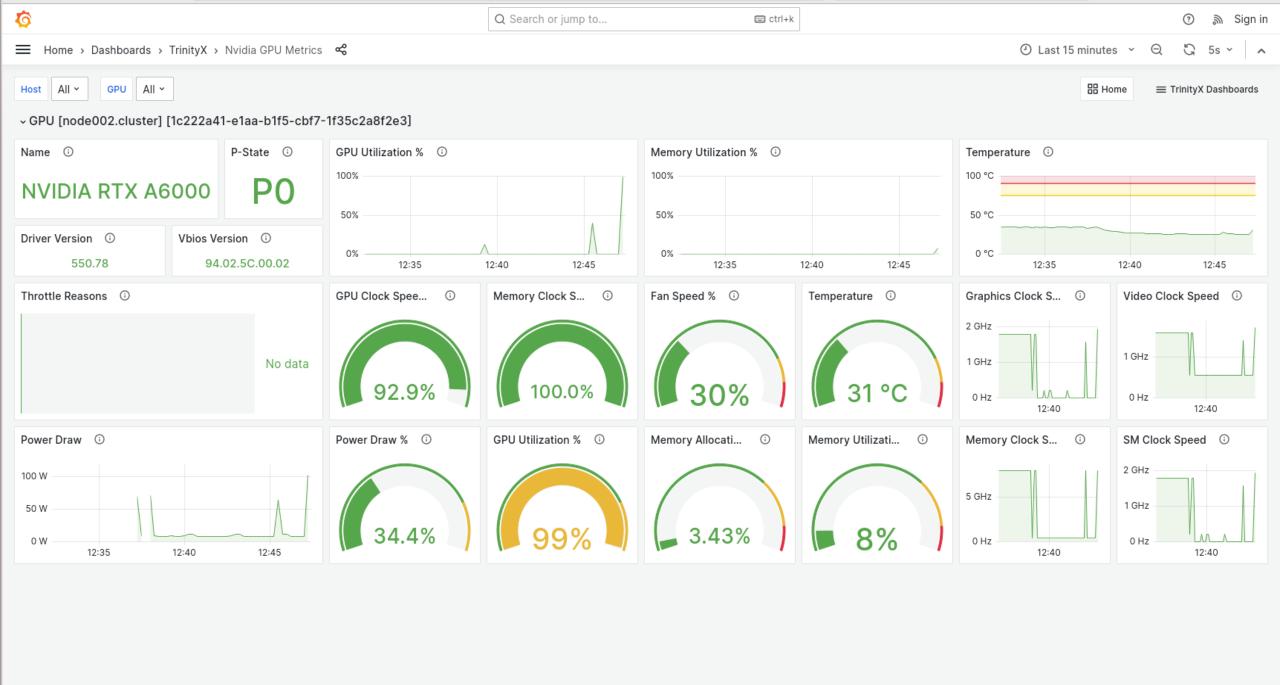


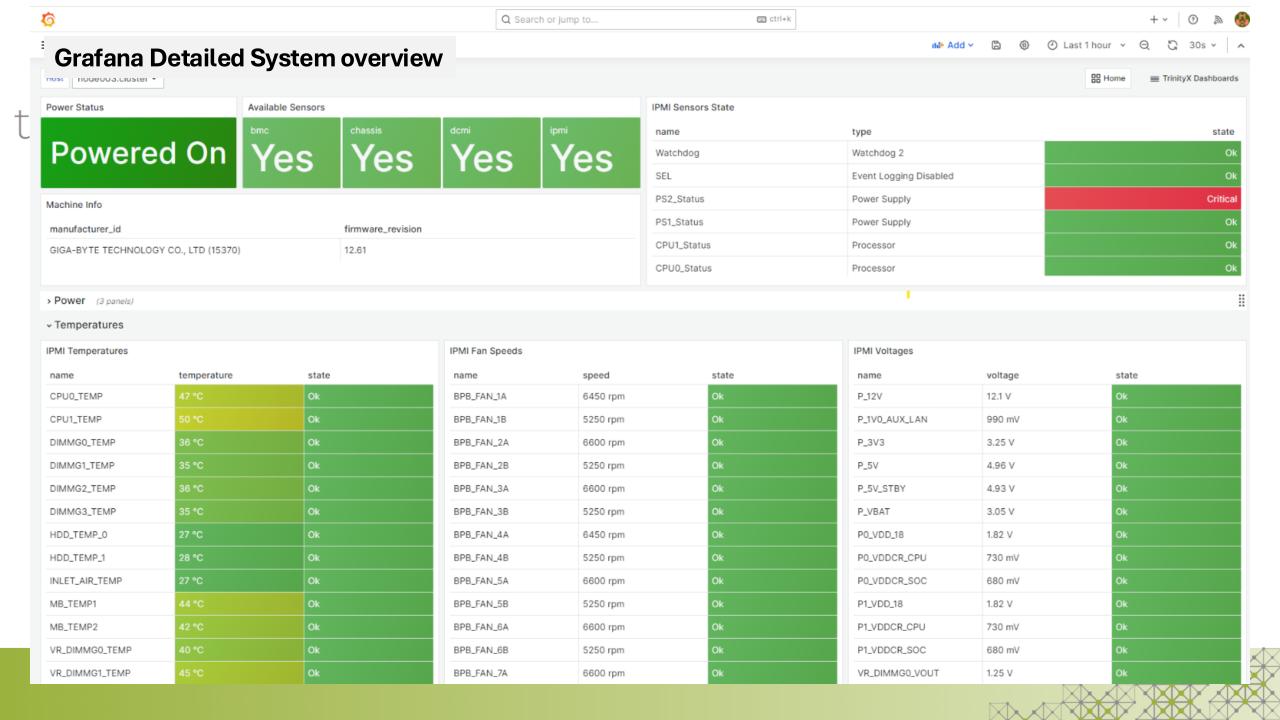


### Grafana 'home' dashboard - The admin coffee time panel











## THANK YOU! <a href="https://github.com/clustervision/trinityX">https://github.com/clustervision/trinityX</a>



#### **ClusterVision Solutions B.V.**

Beechavenue 113, 1119 RB, Schipol-Rijk, The Netherlands

Tel: +31 (0) 202 142 142

E-mail: sales@clustervision.com

