

Presence and continuity – on AI driven automation and decision making



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1. AI is not (just) about prompting

On AI-Driven Automation and Decision-Making

GenAI isn't the whole story

- ▶ “We talk to AI, not with it.”
- ▶ Prompt → Response loop $\neq$ true automation
- ▶ Predictive AI $\neq$ Generative AI



- ▶ Monitoring → Forecasting → Autonomous adjustment
- ▶ Examples:
 - ▶ Failure prediction (NVMe/SSD health)
 - ▶ Resource forecasting in cloud clusters
 - ▶ Security incident anticipation

Architecture of AI-driven automation

- ▶ Data sources → Feature extraction → Predictive model
 - ▶  Feedback & policy layer → Actuator / decision engine
- ▶ Closed-loop automation
- ▶ Human-in-the-loop checkpoints

Open Source ecosystem potential

- ▶ Democratize predictive pipelines, ex:
 - Prometheus + MLflow + Kserve
 - Kelony ARD engine
- ▶ Shared datasets, reproducible models
- ▶ From “closed AI assistants” → “open predictive fabric”
- ▶ Upcoming EU AI Act will require transparency on models, sets and weights

Challenges from high up

- ▶ Data fragmentation
- ▶ Bias & drift
- ▶ Trust & accountability
- ▶ Accessibility of compute / tooling

Challenges in practice

- ▶ Proper telemetry
- ▶ Data quality
- ▶ Defining the right rules to look at the right information
- ▶ More than one scenario per customer

2.

Beyond prompts:
continuity &
presence

Infra management needs Continuity



Predictive AI can enhance:

- Workload forecasting: anticipate CPU/memory/storage demand across clusters
- Anomaly detection: early warning on VM, disk, or network degradation
- Autonomous orchestration: self-healing & adaptive resource scheduling
- Open-source foundation → transparent, auditable automation

Continuity through openness

- Presence: local control, open standards, full data ownership
- Continuity: stability across updates, resilience across edge and datacenter
- Predictive Intelligence: AI as steward, not overlord
- Predictive telemetry within Xen Orchestra
- AI-assisted migration planning and backup verification
- Open interfaces for ethical automation partners

Continuity: systems that learn without rupture

Presence: maintaining human oversight & purpose

"Automation that stays aligned with those it serves."

A call to action

- ▶ Bring predictive AI into DevOps toolchains
- ▶ Publish models & telemetry as commons
- ▶ Educate teams beyond prompts: prediction literacy
- ▶ “From prompting machines → partnering with systems.”

In the end it's all about trust



VATES

continuity

presence

openness

*"The measure of intelligent automation isn't how much it replaces,
but how well it sustains continuity."*

THANKS!

Any questions?

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Special thanks to all the people who made and released these awesome resources for free:

- ▶ Presentation template by [SlidesCarnival](#)
- ▶ Genséric Cantournet of Kelony for his intro on chaos theory and AI and cindynics: www.kelony.com
- ▶ Matteo Pasquinelli, the eye of the master A Social History of Artificial Intelligence. London: Verso Books, 2023. ISBN 9781788730068
- ▶ Manuel de Layet-Rochia, of Quiet Systems for his pioneering work on AI emergence and continuity: <https://quietsystems.smol.pub/>