Presence and continuity – on Al driven automation and decision making



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On Al-Driven Automation and Decision-Making

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GenAi isn't the whole story



- "We talk to AI, not with it."
- Prompt → Response loop ≠ true automation
- Predictive AI ≠ Generative AI

Predictive intelligence in IT operations



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

Architecture of Al-driven automation



- Data sources → Feature extraction → Predictive model
 - Yeedback & 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

Beyond prompts: continuity & presence

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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: Al as steward, not overlord
- Predictive telemetry within Xen Orchestra
- Al-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."

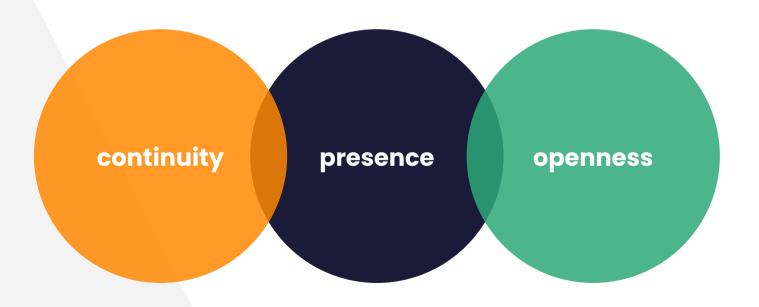
A call to action



- 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







"The measure of intelligent automation isn't how much it replaces,

but how well it sustains continuity."



THANKS!

Any questions?

You can find me at charles.schulz@vates.tech

Credits



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

- Presentation template by <u>SlidesCarnival</u>
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- Matteo Pasquinelli, the eye of the master A Social History of Artificial Intelligence. London: Verso Books, 2023. ISBN 9781788730068
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