

Programmable Monitoring

Automating your Monitoring Workflows
with Checkmk 2.5



Torsten Engler
Director Engineering
Checkmk



Trust



Monitoring that keeps up with your infrastructure



Trust



**Silent
Migration**

Monitoring that keeps up with your infrastructure

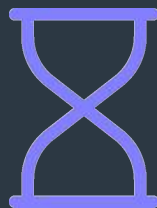


Trust



**Silent
Migration**

Automate



**One Job At
A Time**

Monitoring that keeps up with your infrastructure

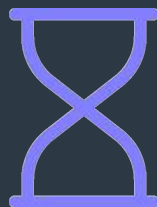


Trust



**Silent
Migration**

Automate



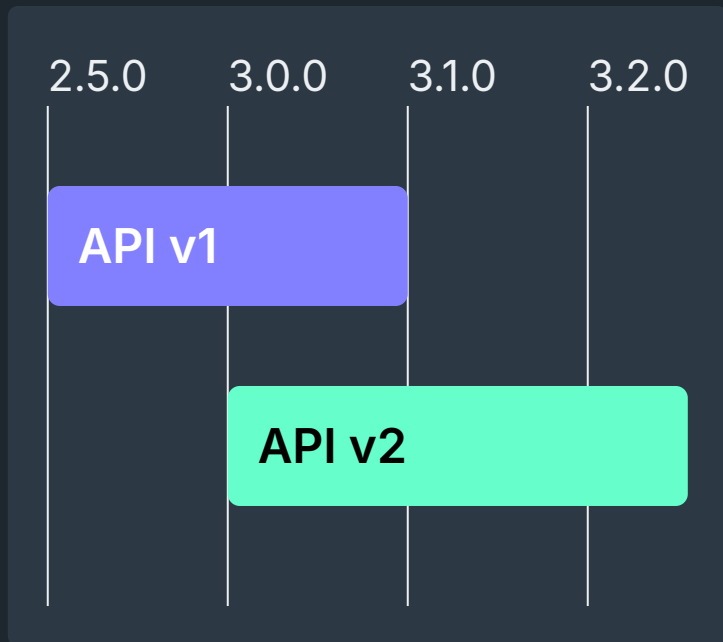
**One Job At
A Time**

Streamline



**Broke on
Upgrade**

Upgrade-proof scripts



Upgrade-proof scripts



2.5.0 3.0.0 3.1.0 3.2.0

API v1

API v2



Stability Guaranteed



Long-term Runway



Risk-Free Innovation

Trust requires predictable failure



Old Behavior (v2.4)



Silent Parameter Migration



Credential Exposure



Breaking Changes

New v2.5 Guardrails



Loud Failures (400)



Hashed Secrets



Explicit Boundaries

From "it works" to "it scales"



Discovery at Scale

Queued with unique IDs



Improved Batch Updates

Single lookup per batch



Faster Data Validation

Improvement for large payloads

From "it works" to "it scales"



You're not just doing more per call.
You're doing more per minute.



Discovery at Scale

Queued with unique IDs



Improved Batch Updates

Single lookup per batch



Faster Data Validation

Improvement for large payloads

From all-or-nothing to exactly-what-you-meant



Activation Feedback

Per-site precision for
retries.

From all-or-nothing to exactly-what-you-meant



Activation Feedback

Per-site precision for retries.



Targeted Activation

Exclude the noise.

From all-or-nothing to exactly-what-you-meant



Activation Feedback

Per-site precision for retries.



Targeted Activation

Exclude the noise.



Discovery Params

Decoupled updates.



**Feedback where you act.
Action where you aim.
Change where you intend.**

Five more places your pipeline can reach



1 Extended acknowledgements

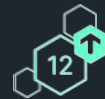
2 OTel collector configuration

3 User message ack/delete

4 Downtime mode in responses

5 User start URL via API

From internals to versioned APIs



v1

Server Side
Programs



v2

Bakery



v1

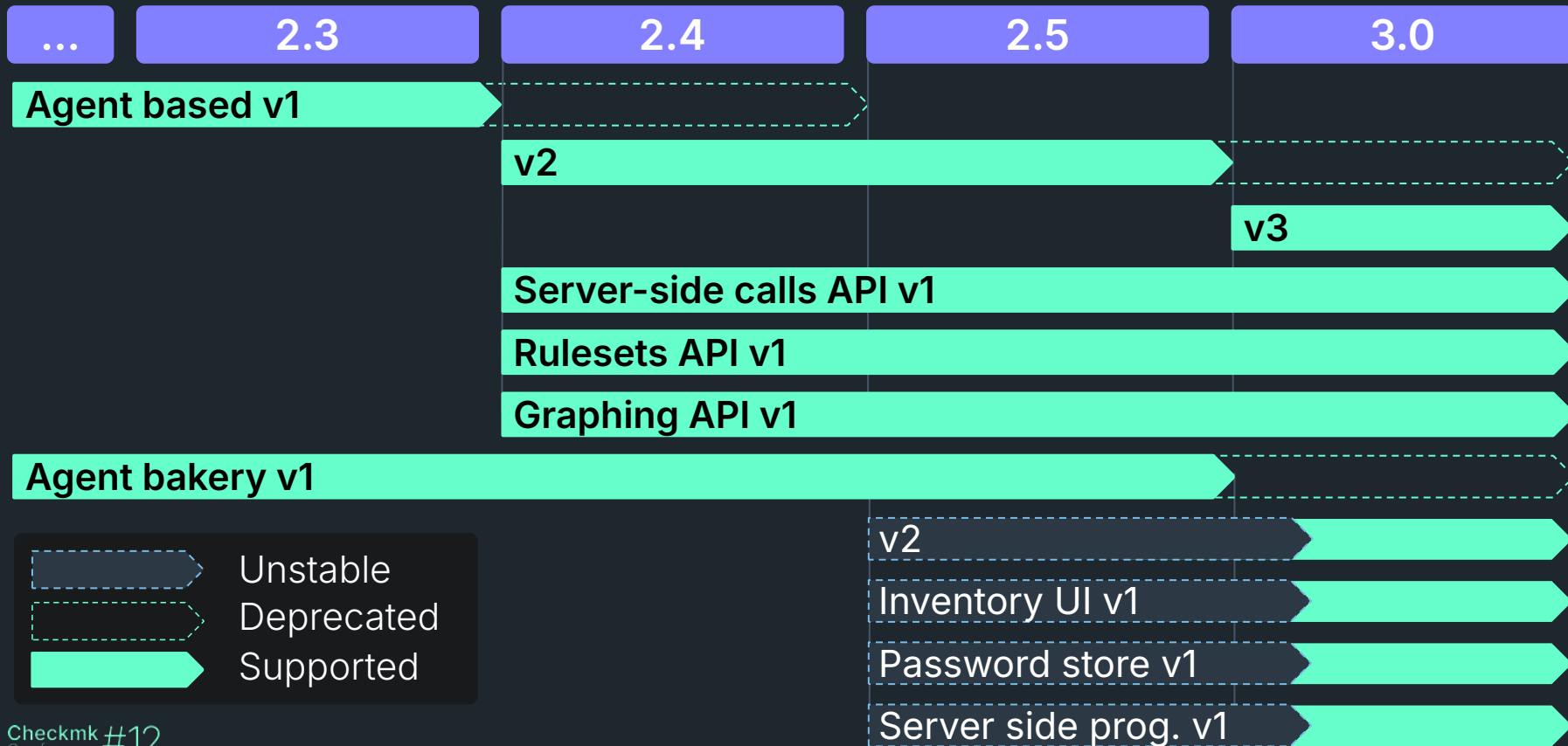
Inventory UI



v1

Password
Store

Lifecycle of plug-in development APIs



API contracts in action: HVAC monitoring



1. Execution

cmk.server_side_programs.v1



2. Secrets

cmk.password_store.v1



3 & 4. Packaging & UI

bakery.v2 + inventory_ui.v1



5. Scale

New REST /inventory Endpoint

Silent failures: not here either



Input Validation



Raises Error

Silent failures: not here either



Input Validation



Raises Error



Proactive Alerts



User Message

Key takeaways



Trust the Platform



Automate at Scale



Streamline Contracts

Key takeaways



Trust the Platform



Automate at Scale



Streamline Contracts

**Automation you trust.
Scale you need.
Contracts you can build on.**

Checkmk #12

Conference