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Integrating IntelliTrend Prisma with On-Premises and Cloud-Based Zabbix

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About IntelliTrend Prisma

What is Prisma

An extension for Zabbix developed by IntelliTrend GmbH.

- Adds capabilities commenly required by integrators, enterprises and MSPs
- Available as on-premise or cloud deployment (bare metal,vm, docker and kubernetes)
- Uses the Zabbix APIs for intergration
- Compatible with the two latest Zabbix LTS releases
- Full support of the App „IntelliTrend Mobile for Zabbix“ (Android / Apple)
- Free tier available – cloud hosted and on-premise

Sales information: https://www.intellitrend.de

Technical information: https://docs.intellitrend.de

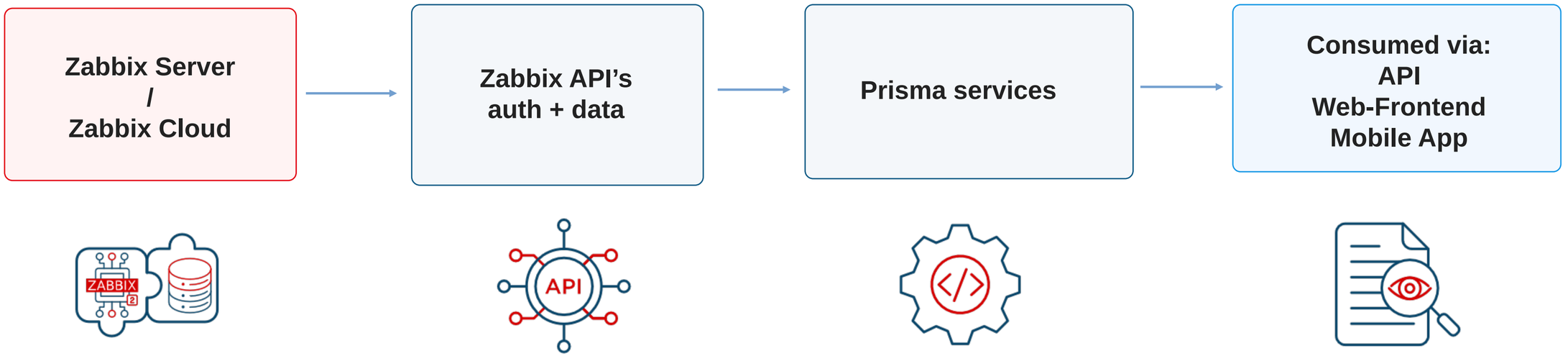
Prisma’s role in one sentence

A companion platform for operational workflows around Zabbix data.

- Integrates via “Zabbix JSON API” and ”Zabbix Streaming API“
- Works alongside on-premises and cloud-based Zabbix
- Adds reusable workflows for reporting,big data integration and AI based anomaly detection

Reference Architecture

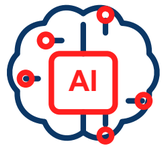
Zabbix stays the source of truth; Prisma consumes and enriches selected data.



- Minimal intrusion: keep existing Zabbix setup
- Clear data boundaries and permissions
- Supports common Zabbix deployment models - on-premises, cloud, hybrid, multi-server and multi-tenant

What Prisma Adds to Zabbix

Today’s focus: Reporting, AI and Zabbix Cloud Integration.



Prisma AI

- AI-based anomaly detection for Zabbix metrics
- Models trained on monitoring data
- Finds patterns beyond static thresholds
- Complements, not replaces, Zabbix triggers

Reporting

- Scheduled and on-demand reports
- Report widgets to show or analyze data
- Output formats: PDF, CSV, JSON, XML
- Delivery via email, SCP, Kafka or S3

Also available in Prisma

Responsive dashboards ● Mobile access ● Self-service ● Multi-tenancy ● API-access ● On-premises and cloud deployment

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New anomaly detection models

New anomaly detection models

Why Prisma moved from reconstruction-based models to forecasting-based models.

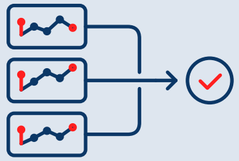
Previous: LSTM autoencoder

- Compresses and reconstructs historical data
- Anomalies are detected through reconstruction errors
- Works well for many time series patterns
- With many metrics, training can become unstable
- Large trainings may run into exploding gradient problems

New: Transformer-based forcasting

- Forecasts the next expected metric value
- Compares the forecast with the actual observed values
- The difference becomes a potential anomaly signal
- Better suited for larger, complex multi-metric scenarios
- Designed for more stable training behavior and detection

New: Ensemble decision layer



- Multiple separately trained experts are combined in one model
- Each expert evaluates the same data independently
- A quorum is used before flagging an anomaly
- Reduces false positives and improves robustness

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Prisma AI Workflow

How an AI Item works in Prisma

From a tagged Zabbix item to anomaly scores that behave like native Zabbix data.

1. Tag item in Zabbix

- Add the tag „prisma-ai“ to an item in Zabbix
- The item becomes an AI enabled item

2. Prepare in Prisma

- Extract a dataset from the tagged item history
- Create and train a model on the dataset
- Validate the model on a separate dataset

3. Deploy to AI Server

- Deploy the trained model to an AI Server
- The AI Server processes live values in real time
- Input arrives through the Zabbix Connector API

4. Return scores to Zabbix

- Write anomaly scores back to Zabbix
- Use regular trapper items via the „history.push“ API
- To Zabbix, the result is just another item

Why this matters

- Existing triggers continue to work
- Actions and notifications still apply
- Dashboards can visualize AI scores
- Reports can include AI output

Prisma handles the AI workflow; Zabbix consumes the output in a familiar way

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AI models across multiple hosts

Prisma AI can combine tagged items from several hosts into one model, that learns cross-system relationships to understand entire services.

Tagged items from multiple hosts

All relevant items are tagged with prisma-ai

- Frontend server
- Payments API
- Database Server
- Load balancer

One Prisma AI model

- Combines metrics from multiple hosts
- Learns dependencies across the service
- Detects anomalies at service level

Example: Webshop

- Frontend
- Payments
- Database
- LB

- One model for the complete webshop
- Understands interactions between tiers
- Useful when single-host views misses the real issue in a service

What this means in Zabbix

- Anomaly scores for services are available as items
- Trigger and actions can user the AI output directly
- Dashboards and reports include service-level anomalies
- AI complements host-level monitoring with cross-system insights

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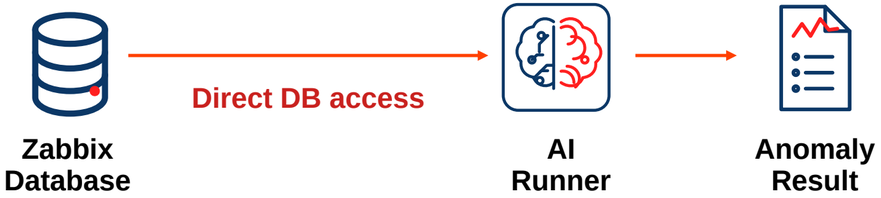
From AI Runner to AI Server

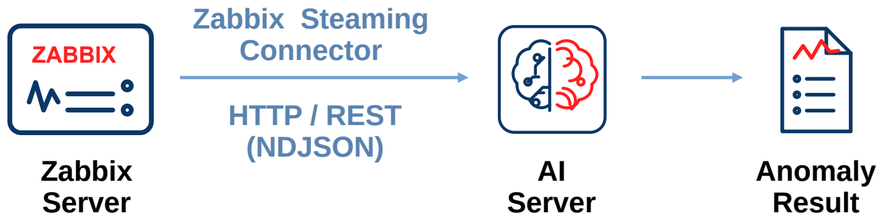
Why Prisma moved from database-based inference to Zabbix Streaming API.

Previous approach: AI Runner



- Used for inference of AI trained AI models
- Reads the last metric values from the database
- Requires direct Zabbix database access
- Problematic for environments such as Zabbix Cloud

New approach: Prisma AI Server



- Acts as a receiver endpoint for Zabbix Streaming
- Receives live values in real time for model inference
- No database connection required
- Compatible with on-prem and cloud-hosted Zabbix

New AI Server - What changes in practise

- Allows to use Zabbix Cloud setups
- Can run multiple models at once
- Has CPU and full CUDA support for Nvidia GPUs
- Can be scaled horizontally just like Zabbix proxies

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Demo time :-)

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Thank you!

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