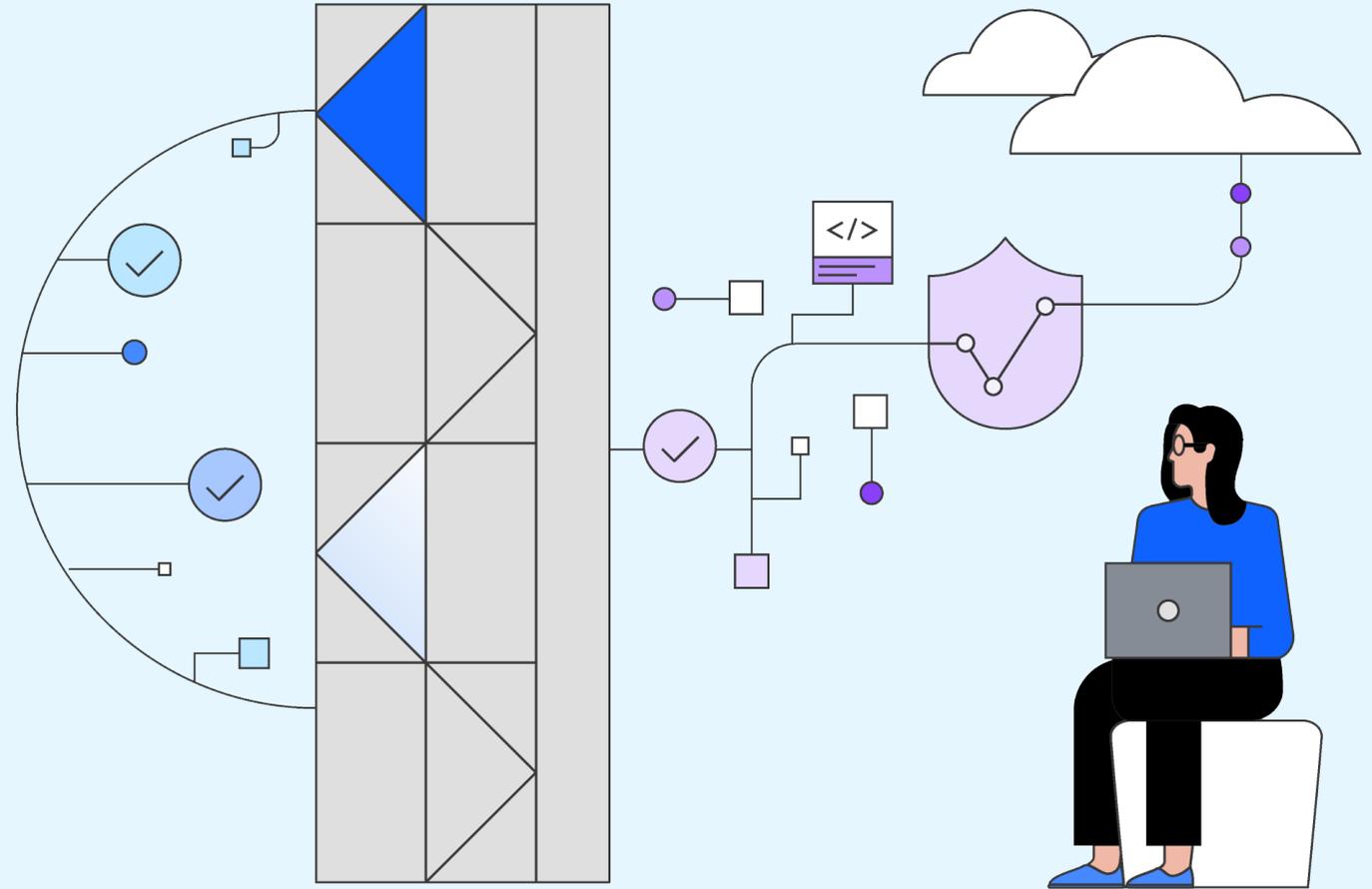# AIOps for IBM Z Handbook

Revised 02-02-26

AIOps for IBM Z

AIOps for IBM Z® is a powerful technology approach that combines automation with artificial intelligence (AI) and machine learning algorithms.

Simplified, AI-powered operations that provide observability, optimized performance and increased automation.

AI-driven operations that anticipate issues through OpenTelemetry-enabled insights.

Delivers operational resilience, reduced MTTR, and maintains continuous availability.

Building blocks for modern Z operations

Integrated capabilities help you improve
performance, resilience and cost efficiency.

Intelligent
Central
Control

Observe

Optimize

Automate

Observe

Deliver enterprise-wide
visibility across IBM Z and hybrid
applications to support
AI-assisted issue detection,
diagnosis, and trend-based
prevention.

- Efficiency-Driven Z Observability
- Rapid Root Cause Analysis
- Cost & Utilization Insights
- End-to-End DevOps
  Lifecycle Tracking
- Proactive Trend Analysis
  & Visualization

Optimize

Maximize mainframe availability
and performance through correlated
insights, continuous tuning, and AI
driven optimization across Z + hybrid
environments.

- App & Subsystem
  Performance Optimization
- Continuous Performance Assurance
- Cross-Environment
  Resource Optimization
- Multi-Source Data Correlation

Automate

Apply agentic AI and guided
automation to reduce MTTR,
boost staff productivity, and
sustain resiliency across
mainframe operations.

- Automated Remediation
- Automated Resilience
  & Recovery
- AI-Powered Low-Code
  Workflows
- Repeatable Runbooks

IBM Z AIOps Solutions

Monitoring
Identify poorly performing tasks quickly for faster resolution with full-stack monitoring for early detection for IBM Z incidents.

Observability
Integrate z/OS into enterprise-wide observability platforms to provide end-to-end visibility of applications and underlying infrastructure. Support adoption of OpenTelemetry standard to deliver AI-assisted issue detection and resolution.

Performance Analysis & Optimization
Maximize application performance analysis and infrastructure availability through AI-assisted health and risk detection and optimize performance, workload, cost and capacity.

Automation
End-to-end, goal-driven and policy-based system automation. Intelligent workload automation with embedded predictive scheduling, automated configuration and provisioning.

Software Asset management
Understand software inventory and make license decisions that align with business goals and forecasts.
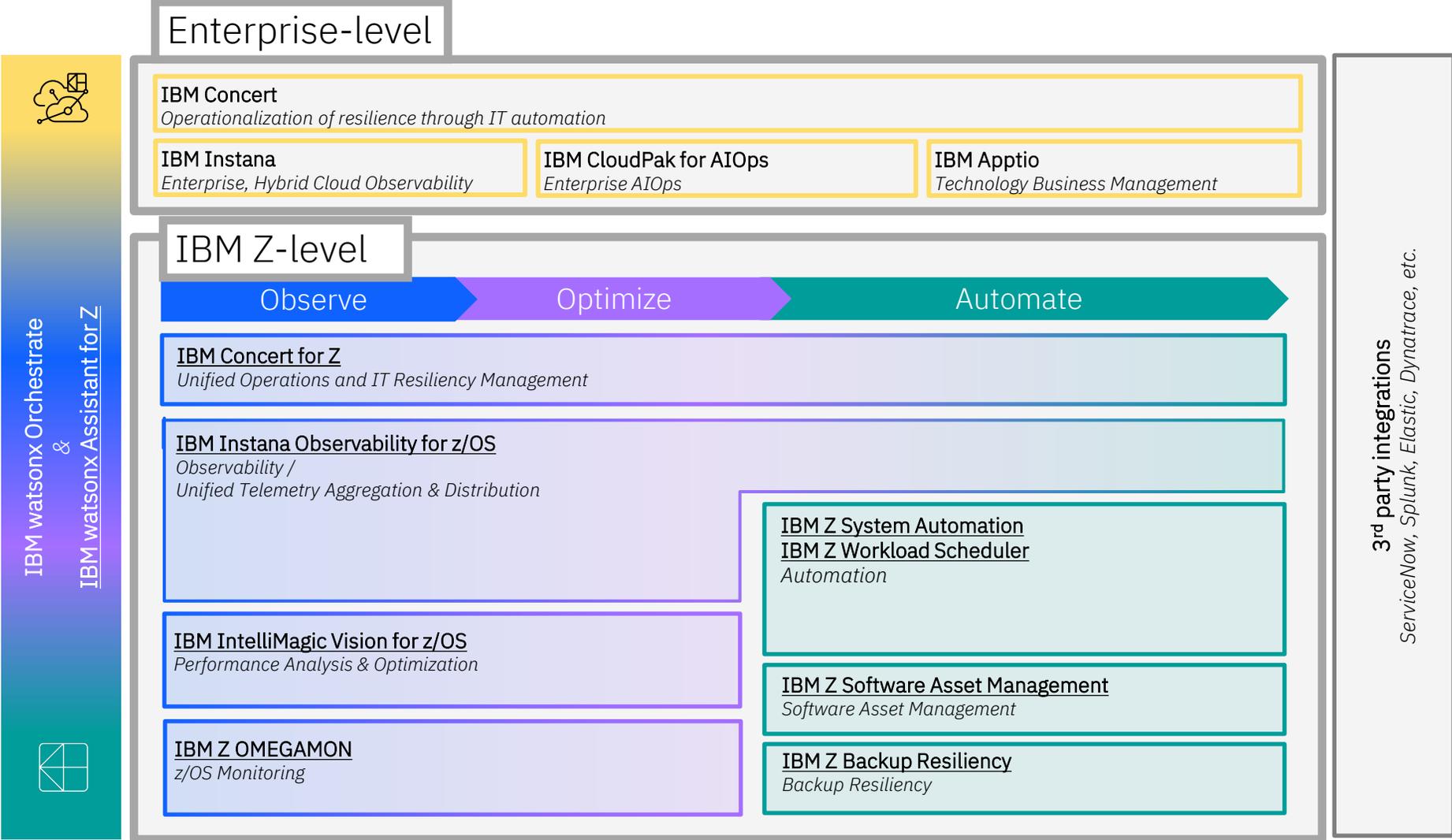
Backup resiliency
End-to-end backup and recovery for data using real-time analytics to pinpoint critical datasets, map dependencies, and enable surgical recovery within minutes.

Unified Operations & IT Resiliency Management
Simplify IT operations management for mainframe with AI-powered efficiency and AI-assisted chat operations. Manage incidents risk and resiliency and ensure security and compliance.

Solutions and product mapping

Enterprise-level

IBM Concert
Operationalization of resilience through IT automation

IBM Instana
Enterprise, Hybrid Cloud Observability

IBM CloudPak for AIOps
Enterprise AIOps

IBM Apptio
Technology Business Management

IBM Z-level

IBM watsonx Orchestrate
&
IBM watsonx Assistant for Z

Observe	Optimize	Automate

IBM Concert for Z
Unified Operations and IT Resiliency Management

IBM Instana Observability for z/OS
Observability /
Unified Telemetry Aggregation & Distribution

IBM Z System Automation
IBM Z Workload Scheduler
Automation

IBM IntelliMagic Vision for z/OS
Performance Analysis & Optimization

IBM Z Software Asset Management
Software Asset Management

IBM Z OMEGAMON
z/OS Monitoring

IBM Z Backup Resiliency
Backup Resiliency

3rd party integrations
ServiceNow, Splunk, Elastic, Dynatrace, etc.

References

Additional resources

The AIOps for IBM Z framework
and solutions will help
determine the next best step

Website	Demos/Videos	Podcasts	Community
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