LOGZILLA Data Center Edition

LogZilla for Data Centers

Unified Visibility Across Compute, Storage, Network, and Virtualization

Unified
Infrastructure View

Predictive

Multi-Tenant

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Copilot Included

The Data Center Challenge

Infrastructure Complexity:

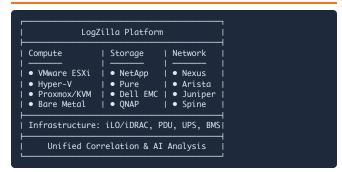
- Siloed visibility: Separate tools for compute, storage, network
- Uptime pressure: 99.999% SLA requirements
- Scale: Thousands of devices, millions of events
- Root cause: Hours to correlate across systems
- · Capacity planning: Reactive vs. predictive

The AI Advantage

Data Center Intelligence:

- Cross-domain correlation: Compute + storage + network
- Predictive alerts: Disk, memory, hardware failures
- Capacity trending: Resource exhaustion forecasting
- Vendor CLI commands: Ready-to-execute remediation
- Multi-tenant: Colo customer isolation via RBAC

Data Center Architecture



Single Pane of Glass: Correlate events across hypervisors, storage arrays, network fabric, and physical infrastructure in one platform.

AI-Powered Infrastructure Analysis

Prompt: "Generate infrastructure health report for last 24 hours with capacity trending and remediation commands."

Al Use Cases for Data Centers

Use Case	Traditional	With AI
Root cause analysis	Hours	Minutes
Capacity forecasting	Manual	Automated
Hardware failure prediction	Reactive	Predictive
Compliance evidence	Weeks	Minutes
Outage correlation	Multiple tools	Unified

Log Sources

- Virtualization: VMware, Hyper-V, Proxmox, KVM
- Storage: Any array with syslog/SNMP
- Network: Switches, routers, load balancers
- Infrastructure: IPMI, PDU, UPS, DCIM, BMS

Prompt: "Analyze the network outage at 14:23 and identify root cause with remediation steps."

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OUTAGE ANALYSIS: Network Segment B
Incident: Dec 3, 2024 14:23-15:47 (84 min)
Impact: 847 VMs lost connectivity

ROOT CAUSE: Switch SW-CORE-07 failure

TIMELINE:
14:21:03 - SW-CORE-07: CPU 98% (warning)
14:22:47 - SW-CORE-07: Memory exhausted
14:23:01 - Switch failure - segment isolated
14:23:15 - 847 VMs lost network
15:12:00 - Failover to backup switch
15:47:00 - Full connectivity restored

CONTRIBUTING FACTORS:
- Switch firmware outdated (2019)
- No redundant path configured
- Monitoring gap (switch not in alerts)
```

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REMEDIATION PLAYBOOK: Switch Recovery
Priority: CRITICAL | Affected: 847 VMs
IMMEDIATE (Cisco NX-OS):
show system resources show logging last 100 | include ERRICRIT
show spanning-tree root
show vpc brief
FAILOVER VERIFICATION:
show hsrp brief
show vpc consistency-parameters global
show port-channel summary
POST-RECOVERY VALIDATION:
show interface status | include connected
show ip route summary
ping 10.1.1.1 vrf management count 5
PREVENTIVE (Schedule maintenance):
copy running-config bootflash:backup.cfg
install all nxos bootflash:nxos.9.3.10.bin
```

Predictive Hardware Alerts

HARDWARE PREDICTION REPORT
A DISK FAILURES PREDICTED (SMART): esxi-host-12: /dev/sda - 847 reallocated sectors Prediction: Failure within 14 days Action: Schedule replacement
▲ MEMORY ERRORS DETECTED: db-prod-05: DIMM Slot 3 - ECC errors Count: 47 correctable errors (24h) Action: Replace DIMM at next maintenance
✓ PSU HEALTH: All redundant✓ FAN HEALTH: All operational✓ TEMPERATURE: Within thresholds

Capacity Trending

Resource	Current	30-Day	Action
CPU (cluster)	67%	↑ 78%	Monitor
Memory	72%	↑ 81%	Plan expansion
Storage (SAN)	71%	↑ 85%	Add capacity
Network I/O	2.4 Gbps	Stable	Normal

Compliance Frameworks

Framework	Coverage
SOC 2 Type II	Supports
ISO 27001	Audit Trails
PCI-DSS	Req 10
HIPAA	Supports
GDPR	Data Logs

Weekly Operations Review

Prompt: "Generate weekly review covering infrastructure health, security events, and cost optimization."

WEEKLY OPERATIONS REVIEW Period: Last 7 Days Events: 87.2M Hosts: 152
INFRASTRUCTURE: 99.97% uptime Planned maintenance: 2 windows Unplanned incidents: 1 (resolved)
SECURITY SUMMARY: Critical: 12 events (patched) High: 247 events (firewall blocks) Blocked: 45,892 intrusion attempts
COST OPTIMIZATION: Events deduplicated: 67.2M (77%) Storage saved: 4.2 TB Engineer time saved: ~40 hrs/week Alert noise reduction: 94%
TOP ISSUES THIS WEEK: 1. Certificate renewal failures (fixed) 2. Storage latency spike (resolved) 3. VM sprawl detected (47 idle VMs)

Multi-Tenant Capabilities

Colocation Provider Features:

- RBAC isolation: Customer-specific views
- Tenant dashboards: Self-service portals
- SLA reporting: Uptime and incident metrics
- Chargeback data: Resource utilization

Sample Al Prompts

- "Show all hardware alerts for rack B-12"
- "Analyze storage latency for the last hour"
- "Which VMs are consuming the most resources?"
- "Generate SOC 2 evidence for access logs"

Prompt: "Analyze storage performance across all arrays and identify latency issues with remediation."

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STORAGE PERFORMANCE ANALYSIS
Period: Last 4 Hours | Arrays: 12 | Volumes: 2,847

LATENCY SUMMARY:
NetApp-01: 0.8ms avg /
Pure-FlashArray: 0.3ms avg /
EMC-Unity-02: 12.4ms avg A ELEVATED

ISSUE DETECTED: EMC-Unity-02
Latency spike: 12.4ms (baseline: 1.2ms)
Affected LUNs: 47 (VMware datastores)
Impact: 234 VMs experiencing slow I/0

ROOT CAUSE ANALYSIS:
- Disk rebuild in progress (RAID group 3)
- Hot spare activated 02:14 AM
- Rebuild ETA: 6 hours remaining

AFFECTED WORKLOADS:
sql-prod-cluster: Query timeouts
exchange-dag: Mailbox latency
vdi-pool-03: Login delays
```

Storage Best Practices

- **Proactive monitoring**: Alert on latency > 5ms
- Capacity planning: Trigger at 80% utilization
- RAID rebuild: Reduce I/O during rebuilds

STORAGE REMEDIATION PLAYBOOK Priority: HIGH Impact: 234 VMs
IMMEDIATE ACTIONS:
EMC Unity CLI: uemcli /stor/config/pool show uemcli /metrics/value/rt -path sp.*.cpu.utilization uemcli /event/alert show -severity critical
WORKLOAD MIGRATION (VMware): # Identify affected VMs esxcli storage vmfs extent list # Storage vMotion critical VMs Get-VM -Datastore "EMC-DS-*" Move-VM -Datastore "Pure-DS-01"
COMMUNICATION: - Notify affected app owners - Update incident ticket INC0012847 - Schedule post-rebuild validation
MONITORING: - Set 15-min latency check alerts

Storage Health Matrix

- Track rebuild progress hourly

Array	Capacity	Latency	Status
NetApp-01	72%	0.8ms	Healthy
Pure-FlashArray	58%	0.3ms	Healthy
EMC-Unity-02	81%	12.4ms	Degraded
QNAP-Backup	67%	2.1ms	Healthy

Deployment Options

On-Premises

- Your data center
- Air-gap capable
- Full data control
- No cloud dependency

Multi-Site

- Central correlation
- Site-level collectors
- Encrypted transport
- Global visibility

Hybrid

- On-prem + cloud
- Flexible architecture
- DR/backup sites
- Unified analytics

Why Data Centers Choose LogZilla

Metric	Improvement
Root cause analysis	85% faster
Uptime visibility	100% coverage
Alert noise	94% reduction
Compliance reporting	Automated

Data Center Benefits:

- Unified view: All infrastructure in one platform
- Predictive: Catch failures before impact
- Scalable: Billions of events per day
- Al-powered: Natural language queries

Maximize uptime, unify visibility, predict failures.

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