

LOGZILLA DOCUMENTATION

# Query Types --- System/Admin Queries

LogZilla system query reference for SystemStatus, ProcessingStats, StorageStats, and host metrics covering CPU, memory, disk, network, and IOPS

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## Query Types -- System/Admin Queries

These queries expose system metrics, storage counters, and status. Names and fields are verified against `lib/logzilla/query.py` and API wiring.

- SystemStatus
- ProcessingStats
- StorageStats
- System\_CPU
- System\_Memory
- System\_DF
- System\_Network
- System\_NetworkErrors
- System\_IOPS (alias: System\_IOPSQuery)
- Notifications
- Tasks

### SystemStatus

High-level system information and disk usage. No time range.

Parameters:

- `show_usage_stats` (bool): include disk usage breakdowns.

### ProcessingStats

Internal processing counters for the pipeline.

Parameters:

- `time_range, timezone`
- `show_daily_stats` (bool)

Result highlights:

- `totals` and `details` with `new`, `duplicates`, `optional daily_stats`.

## StorageStats

Storage counters over a period (rounded to full hours).

Parameters:

- `time_range, timezone`
- `show_daily_stats (bool)`
- `show_raw_counters (bool)`

Result highlights:

- `totals` for the period, `all_time` counters.

## System\_CPU

CPU usage metrics per-CPU or totals.

Parameters:

- `time_range, timezone`
- `cpu`: CPU index or `totals`
- Optional filters: `host`

Fields:

- `usage_softirq, usage_system, usage_idle, usage_user, usage_irq, usage_nice, usage_steal, usage_iowait.`

## System\_Memory

Memory utilization metrics.

Parameters:

- `time_range, timezone`
- Optional filters: `host`

Fields:

- `buffered, cached, free, used.`

## System\_DF

Filesystem usage metrics per mount/path.

Parameters:

- `time_range, timezone`
- Filters: `host, path` (mapped to `fs` internally)

Fields:

- `free, used`. (Percentages can be derived by clients.)

## System\_Network

Network throughput derived from interface counters.

Parameters:

- `time_range, timezone`
- Filters: `host, interface`

Fields (custom rates):

- `bps_recv` = derivative of `bytes_recv` × 8
- `bps_sent` = derivative of `bytes_sent` × 8

## System\_NetworkErrors

Network interface error and drop counters.

Parameters:

- `time_range, timezone`
- Filters: `host, interface`

Fields:

- `drop_in, drop_out, err_in, err_out`.

## System\_IOPS (System\_IOPSQuery)

Disk I/O operations per second (IOPS).

Parameters:

- `time_range`, `timezone`
- Filters: `host`, `disk` (exposed as `name` internally)

Fields (custom rates):

- `reads`, `writes` (derived per second)

## Notes

- System queries depend on metrics availability and the `SYSTEM_METRICS_ENABLED` configuration.
- See [Making Queries](https://www.logzilla.ai/docs/logzilla-api/making-queries) (https://www.logzilla.ai/docs/logzilla-api/making-queries) for the request flow.
- For export formats, see [Query Export Formats](https://www.logzilla.ai/docs/logzilla-api/query-export) (https://www.logzilla.ai/docs/logzilla-api/query-export).

## Notifications

Notifications group query built on top of system status mechanics.

Parameters:

- `time_range`: Period to consider; values used against `time_range_field`.
- `timezone`: Timezone for interpretation.
- `time_range_field`: One of `updated_at`, `created_at`, `unread_since`, or `read_at`.
- `is_private`: Filter by private flag (bool).
- `read`: Filter by read flag (bool).
- `sort`: List. Defaults to descending by `time_range_field` when not provided.

## Tasks

Task list query with filters and sorting.

Parameters:

- `time_range`: Period (default last day).

- `sort`: List of fields (string or list). Default `owner`.
- `is_open`: Filter by open/closed (bool).
- `is_overdue`: Filter by due date (bool).
- `assigned_to`: Filter by user ids (list); empty list means unassigned.
- `owner`: Filter by owner ids (list).