WebAPIv3_Diagnostics

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Diagnostics

Resources are provided to serve out diagnostic (AKA "health") information about the service.

Note: The four resources are unsecured. An access token is not required to make the request.

Note: Include the Cache-Control: no-cache HTTP header with the request to ensure caching does not skew the results.

The *status* end-point can be used to check the health status of the service. This endpoint can be used for diagnostic purposes and for automatic health checks performed by a load-balancer.

Status

The *diagnostic/status* resource responds with an HTTP 200 status code and an OK string in the message body if the API is functional. It responds with an HTTP 500 status code and an UNHEALTHY string in the message body if the API is not functional. Any other response (e.g., no response due to timeout) also indicates a not healthy state.

GET `.../api/diagnostic/status`

The *echo*, *upload* and *download* diagnostic metrics can be used to measure communication performance for the service.

- Round Trip Time (sec) – time taken to send a request and receive a response to/from the service given that message size is insignificant.
- Upload speed (bytes/sec) – average number of bytes sent to the service over a time interval;
- Download speed (bytes/sec) – average number of bytes received from the service over a time interval;

Echo

The *diagnostic/echo* resource reads and sends back the content of the request message body with an HTTP 200 status code.

POST `.../api/diagnostic/echo`

Upload

The *diagnostic/upload* resource reads the content of the request message body and responds back with an HTTP 204 status code and empty body.

POST `.../api/diagnostic/upload`

Download

The *diagnostic/download* resource accepts the request and responds back with an HTTP 200 status code and a random set of bytes in the message body. The response size is controlled by the contentBytes query parameter. If the parameter is missing, the service responds with 65536 bytes (64 KB) content

GET `.../api/diagnostic/download?contentBytes=131072`

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