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What Is RESTCONF

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RESTCONF Overview

- A REST like protocol running over HTTP for accessing data defined in YANG using datastores defined in NETCONF.
- RESTCONF is an IETF draft that describes how to map a YANG specification to a RESTful interface.
- The REST-like API is not intended to replace NETCONF, but rather provide an additional simplified interface that follows REST-like principles and is compatible with a resource-oriented device abstraction.
- The RESTCONF protocol operates on a conceptual datastore defined with the YANG data modeling language. The server lists each YANG module it supports under "/restconf/modules" in the top-level API resource type, using a structure based on the YANG module capability URI format.
- The conceptual datastore contents, data-model-specific operations and notification events are identified by this set of YANG module resources. All RESTCONF content identified as either a data resource, operation resource, or event stream resource is defined with the YANG language.
- The classification of data as configuration or non-configuration is derived from the YANG "config" statement. Data ordering behavior is derived from the YANG "ordered-by" statement.
- RESTCONF allows access to datastores locating in controller. There are two

datastores:Each request must start with URI /restconf

- Config – contains data inserted via controller
- Operational – contains data inserted via network
- RESTCONF listens on port 8080 for HTTP requests
- RESTCONF supports OPTIONS, GET, PUT, POST, DELETE operations.
- Request and response data can be in XML or JSON format. XML has structure according to yang by XML-YANG and JSON by JSON-YANG.

References

- *http://datatracker.ietf.org/doc/draft-bierman-netconf-restconf/?include_text=1*
- *https://wiki.opendaylight.org/view/OpenDaylight_Controller:MD-SAL:Restconf*

You might also like to read:

- OpenDaylight, Netconf, Restconf & YANG
- What Is NETCONF
- How To Connect To Netconf Server Using OpenDaylight Netconf…
- How To Check If Device Supports NETCONF Monitoring

Filed Under: OpenDaylight, SDN

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