KademliaGolf

Documentation for the Kademlia RESTful API

default

GET	/kademlia/nodes/{:id}	Find the k closest neighbours to node with id

Implementation Notes

Find the k closest neighbours to node with id

Response Class (Status 200)

OK

Model | Example Value

```
{
  "nodeId": "string",
  "rpcId": "string",
  "closestNodes": {
    "id": "string",
    "ipAddr": "string",
    "port": "string"
  }
}
```

Response Content Type application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
:id	(required)		path	double
Body	(required)		body	Model | Example Value

Parameter content type:
application/json

Body Model | Example Value

```
{
  "nodeIP": "string",
  "nodePort": "string",
  "rpcId": "string"
}
```

Try it out!

GET   /kademlia/data/endpoints   Search for value in Kademlia network

Implementation Notes

Search for value in Kademlia network

Response Class (Status 200)

OK

Model | Example Value

```
{
   "value": "string"
}
```

Response Content Type [application/json ⇕]

Parameters

Parameter	Value	Description	Parameter Type	Data Type
key	(required)	**Name of the value to be found**	query	string

[Try it out!]

POST   /kademlia/data/endpoints   Add new data to network

Parameters

Parameter	Value	Description	Parameter Type	Data Type
data	(required) Parameter content type: [application/json ⇕]	**New data to be stored in Kademlia Network**	body	Model | Example Value ```{ "name": "string", "value": "string" }```

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	200 response		

Try it out!

GET **/kademlia/info/ping**   Ping the node from the URL

Implementation Notes

Ping the node from the URL

Response Class (Status 200)

OK

Model | Example Value

```
{
   "nodeId": "string",
   "rpcId": "string",
   "msg": "string"
}
```

Response Content Type application/json ⇕

Parameters

Parameter	Value	Description	Parameter Type	Data Type
message	(required)	**Ping the given IP**	body	Model | Example Value ```{ "nodeId": "string", "nodeIP": "string", "nodePort": "string", "rpcId": "string" }```
	Parameter content type: application/json ⇕			

Try it out!

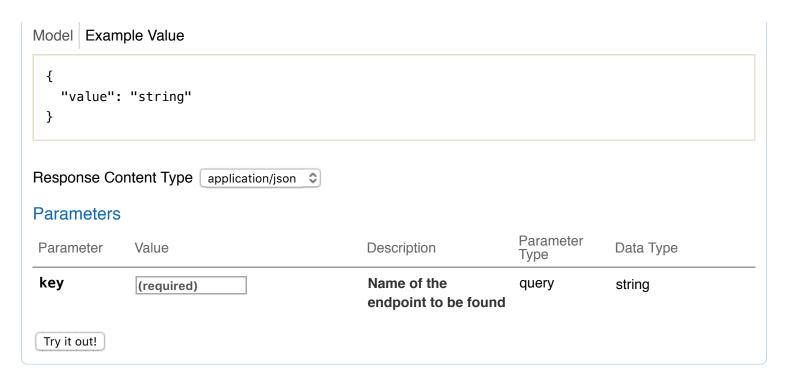GET **/store/data/endpoints**   Search for endpoint in node
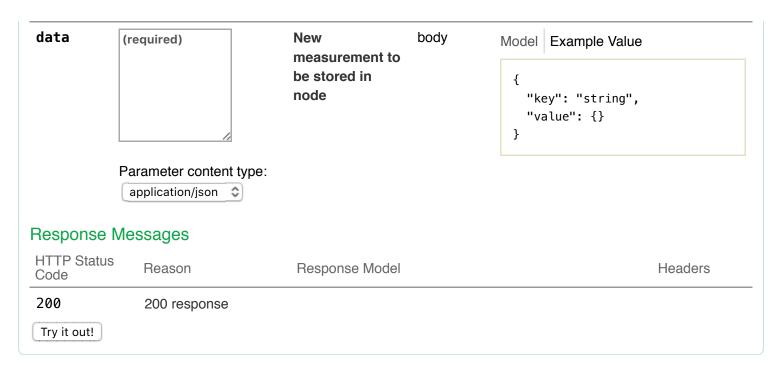
Implementation Notes

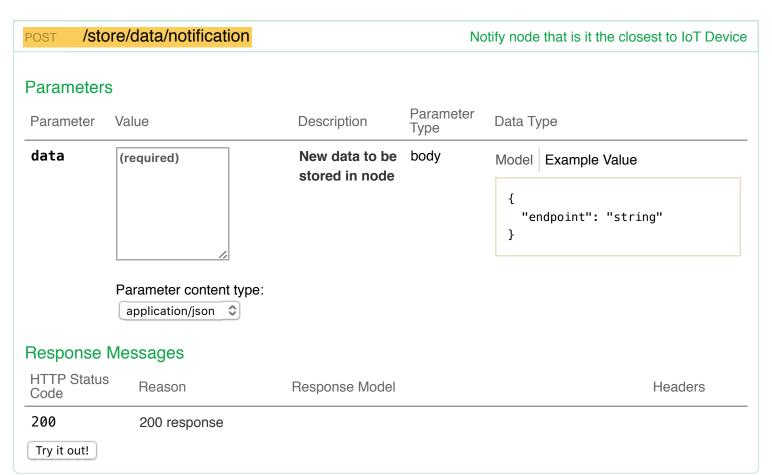Search for endpoint in Node

Response Class (Status 200)

OK

Model | Example Value

```
{
  "value": "string"
}
```

Response Content Type [application/json ⇕]

Parameters

Parameter	Value	Description	Parameter Type	Data Type
key	[(required)]	**Name of the endpoint to be found**	query	string

[Try it out!]

POST   **/store/data/endpoints**   Add endpoint to node

Parameters

Parameter	Value	Description	Parameter Type	Data Type
data	[(required)]	**New endpoint to be stored in node**	body	Model | Example Value

Parameter content type:
[application/json ⇕]

Example Value model:
```
{
  "name": "string",
  "value": "string"
}
```

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	200 response		

[Try it out!]

POST   **/store/data/measurement**   Add measurement to node

Parameters

Parameter	Value	Description	Parameter Type	Data Type

| **data** | (required) | **New measurement to be stored in node** | body | Model | Example Value |

```
{
  "key": "string",
  "value": {}
}
```

Parameter content type:

application/json ⇅

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	200 response		

Try it out!

| POST | /store/data/notification | | Notify node that is it the closest to IoT Device |

Parameters

Parameter	Value	Description	Parameter Type	Data Type
data	(required)	**New data to be stored in node**	body	Model	Example Value

```
{
  "endpoint": "string"
}
```

Parameter content type:

application/json ⇅

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	200 response		

Try it out!

[BASE URL: /api , API VERSION: 1.0.0]