
GNS3 Documentation

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GNS3 Team

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Warning: The API is not stable, feel free to post comments on our website <https://gns3.com/>

Communications

All the communication are done over HTTP using JSON.

Errors

In case of error a standard HTTP error is raise and you got a JSON like that

```
{  
  "status": 409,  
  "message": "Conflict"  
}
```

Sample session using curl

Warning: Beware the output of this sample is truncated in order to simplify the understanding. Please read the documentation for the exact output.

You can check the server version with a simple curl command:

```
# curl "http://localhost:8000/v1/version"
{
  "version": "1.3.dev1"
}
```

The next step is to create a project.

```
# curl -X POST "http://localhost:8000/v1/projects" -d '{"name": "test"}'
{
  "project_id": "42f9feee-3217-4104-981e-85d5f0a806ec",
  "temporary": false,
  "name": "Test"
}
```

With this project id we can now create two VPCS VM.

```
# curl -X POST "http://localhost:8000/v1/projects/42f9feee-3217-4104-981e-85d5f0a806ec/vpcs/vms" -d
{
  "console": 2000,
  "name": "VPCS 1",
  "project_id": "42f9feee-3217-4104-981e-85d5f0a806ec",
  "vm_id": "24d2e16b-fbef-4259-ae34-7bc21a41ee28"
}%
# curl -X POST "http://localhost:8000/v1/projects/42f9feee-3217-4104-981e-85d5f0a806ec/vpcs/vms" -d
{
  "console": 2001,
  "name": "VPCS 2",
  "vm_id": "daefc24a-103c-4717-8e01-6517d931c1ae"
}
```

Now we need to link the two VPCS. The first step is to allocate on the remote servers two UDP ports.

```
# curl -X POST "http://localhost:8000/v1/projects/42f9feee-3217-4104-981e-85d5f0a806ec/ports/udp" -d
{
  "udp_port": 10000
}
```

```
# curl -X POST "http://localhost:8000/v1/projects/42f9feee-3217-4104-981e-85d5f0a806ec/ports/udp" -d
{
  "udp_port": 10001
}
```

We can create the bidirectional communication between the two VPCS. The communication is made by creating two UDP tunnels.

```
# curl -X POST "http://localhost:8000/v1/projects/42f9feee-3217-4104-981e-85d5f0a806ec/vpcs/vms/24d2e"
{
  "lport": 10000,
  "rhost": "127.0.0.1",
  "rport": 10001,
  "type": "nio_udp"
}

# curl -X POST "http://localhost:8000/v1/projects/42f9feee-3217-4104-981e-85d5f0a806ec/vpcs/vms/daef"
{
  "lport": 10001,
  "rhost": "127.0.0.1",
  "rport": 10000,
  "type": "nio_udp"
}
```

Now we can start the two VM

```
# curl -X POST "http://localhost:8000/v1/projects/42f9feee-3217-4104-981e-85d5f0a806ec/vpcs/vms/24d2e"
# curl -X POST "http://localhost:8000/v1/projects/42f9feee-3217-4104-981e-85d5f0a806ec/vpcs/vms/daef"
```

Everything should be started now. You can connect via telnet to the different VM. The port is the field console in the create VM request.

```
# telnet 127.0.0.1 2000
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.

Welcome to Virtual PC Simulator, version 0.6
Dedicated to Daling.
Build time: Dec 29 2014 12:51:46
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

VPCS> ip 192.168.1.1
Checking for duplicate address...
PC1 : 192.168.1.1 255.255.255.0

VPCS> disconnect

Good-bye
Connection closed by foreign host.

# telnet 127.0.0.1 2001
```

```
telnet 127.0.0.1 2001
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.

Welcome to Virtual PC Simulator, version 0.6
Dedicated to Daling.
Build time: Dec 29 2014 12:51:46
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

VPCS> ip 192.168.1.2
Checking for duplicate address...
PC1 : 192.168.1.2 255.255.255.0

VPCS> ping 192.168.1.1
84 bytes from 192.168.1.1 icmp_seq=1 ttl=64 time=0.179 ms
84 bytes from 192.168.1.1 icmp_seq=2 ttl=64 time=0.218 ms
84 bytes from 192.168.1.1 icmp_seq=3 ttl=64 time=0.190 ms
84 bytes from 192.168.1.1 icmp_seq=4 ttl=64 time=0.198 ms
84 bytes from 192.168.1.1 icmp_seq=5 ttl=64 time=0.185 ms

VPCS> disconnect
Good-bye
Connection closed by foreign host.
```

Limitations

4.1 Concurrency

A VM can't process multiple request in the same time. But you can make multiple request on multiple VM. It's transparent for the client when the first request on a VM start a lock is acquire for this VM id and released for the next request at the end. You can safely send all the requests in the same time and let the server manage an efficient concurrency.

We think it can be a little slower for some operations, but it's remove a big complexity for the client due to the fact only some command on some VM can be concurrent.

4.2 Authentication

In this version of the API you have no authentication system. If you listen on your network interface instead of localhost be careful. Due to the nature of the multiple supported VM it's easy for an user to upload and run code on your machine.

5.1 VM

A Virtual Machine (Dynamips, IOU, Qemu, VPCS...)

5.2 Adapter

The physical network interface. The adapter can contain multiple ports.

5.3 Port

A port is an opening on network adapter that cable plug into.

For example a VM can have a serial and an ethernet adapter plugged in. The ethernet adapter can have 4 ports.

Development

6.1 Code convention

You should respect all the PEP8 convention except the rule about max line length.

6.2 Documentation

6.2.1 Build doc

In the project root folder:

```
./scripts/documentation.sh
```

The output is available inside *docs/_build/html*

6.3 Tests

6.3.1 Run tests

```
py.test -v
```

API Endpoints

7.1 Config

7.1.1 /v1/config/reload

Contents

- */v1/config/reload*
 - *POST /v1/config/reload*
 - * *Response status codes*
 - * *Sample session*

POST /v1/config/reload

Check if version is the same as the server

Response status codes

- **201**: Config reload
- **403**: Config reload refused

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/config/reload' -d '{}'
```



```
POST /v1/config/reload HTTP/1.1
{}

HTTP/1.1 201
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/config/reload
```

7.2 Dynamips device

7.2.1 /v1/projects/{project_id}/dynamips/devices

Contents

- */v1/projects/{project_id}/dynamips/devices*
 - *POST /v1/projects/{**project_id**}/dynamips/devices*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*

POST /v1/projects/{project_id}/dynamips/devices

Create a new Dynamips device instance

Parameters

- **project_id**: UUID for the project

Response status codes

- **400**: Invalid request
- **201**: Instance created
- **409**: Conflict

Input

Output

7.2.2 /v1/projects/{project_id}/dynamips/devices/{device_id}

Contents

- `/v1/projects/{project_id}/dynamips/devices/{device_id}`
 - `GET /v1/projects/{project_id}/dynamips/devices/{device_id}`
 - * *Parameters*
 - * *Response status codes*
 - * *Output*
 - `PUT /v1/projects/{project_id}/dynamips/devices/{device_id}`
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - *Types*
 - *EthernetSwitchPort*
 - *Body*
 - * *Output*
 - `DELETE /v1/projects/{project_id}/dynamips/devices/{device_id}`
 - * *Parameters*
 - * *Response status codes*

GET /v1/projects/{project_id}/dynamips/devices/{device_id}

Get a Dynamips device instance

Parameters

- **project_id**: UUID for the project
- **device_id**: UUID for the instance

Response status codes

- **200**: Success
- **400**: Invalid request
- **404**: Instance doesn't exist

Output**PUT /v1/projects/{project_id}/dynamips/devices/{device_id}**

Update a Dynamips device instance

Parameters

- **project_id**: UUID for the project
- **device_id**: UUID for the instance

Response status codes

- **200**: Instance updated
- **400**: Invalid request
- **404**: Instance doesn't exist
- **409**: Conflict

Input

Types

EthernetSwitchPort Ethernet switch port

Body

Output

DELETE /v1/projects/{project_id}/dynamips/devices/{device_id}

Delete a Dynamips device instance

Parameters

- **project_id**: UUID for the project
- **device_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance deleted

7.2.3 /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/nio

Contents

- `/v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/nio`
 - `POST /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/nio`
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - *Types*
 - *Ethernet*
 - *LinuxEthernet*
 - *NULL*
 - *TAP*
 - *UDP*
 - *UNIX*
 - *VDE*
 - *Body*
 - `DELETE /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/nio`
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/nio

Add a NIO to a Dynamips device instance

Parameters

- **project_id**: UUID for the project
- **port_number**: Port on the device
- **device_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **201**: NIO created
- **404**: Instance doesn't exist

Input**Types**

Ethernet Generic Ethernet Network Input/Output

LinuxEthernet Linux Ethernet Network Input/Output

NULL NULL Network Input/Output

TAP TAP Network Input/Output

UDP UDP Network Input/Output

UNIX UNIX Network Input/Output

VDE VDE Network Input/Output

Body

DELETE /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/nio

Remove a NIO from a Dynamips device instance

Parameters

- **project_id**: UUID for the project
- **port_number**: Port on the device
- **device_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: NIO deleted

7.2.4 /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/start_capture

Contents

- /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/start_capture
 - *POST* /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/start_capture
 - * *Parameters*
 - * *Response status codes*
 - * *Input*

POST /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/start_capture

Start a packet capture on a Dynamips device instance

Parameters

- **project_id**: UUID for the project
- **port_number**: Port on the device
- **device_id**: UUID for the instance

Response status codes

- **200**: Capture started
- **400**: Invalid request
- **404**: Instance doesn't exist

Input

7.2.5 /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/stop_capture

Contents

- */v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/stop_capture*
 - *POST /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/stop_capture*
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/dynamips/devices/{device_id}/ports/{port_number:d+}/stop_capture

Stop a packet capture on a Dynamips device instance

Parameters

- **project_id**: UUID for the project
- **port_number**: Port on the device
- **device_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Capture stopped

7.3 Dynamips vm

7.3.1 /v1/projects/{project_id}/dynamips/vms

Contents

- */v1/projects/{project_id}/dynamips/vms*
 - *POST /v1/projects/{**project_id**}/dynamips/vms*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*

POST /v1/projects/{project_id}/dynamips/vms

Create a new Dynamips VM instance

Parameters

- **project_id**: UUID for the project

Response status codes

- **400**: Invalid request
- **201**: Instance created
- **409**: Conflict

Input

Output

7.3.2 /v1/projects/{project_id}/dynamips/vms/{vm_id}

Contents

- `/v1/projects/{project_id}/dynamips/vms/{vm_id}`
 - `GET /v1/projects/{project_id}/dynamips/vms/{vm_id}`
 - * *Parameters*
 - * *Response status codes*
 - * *Output*
 - `PUT /v1/projects/{project_id}/dynamips/vms/{vm_id}`
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - `DELETE /v1/projects/{project_id}/dynamips/vms/{vm_id}`
 - * *Parameters*
 - * *Response status codes*

GET /v1/projects/{project_id}/dynamips/vms/{vm_id}

Get a Dynamips VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Success
- **400**: Invalid request
- **404**: Instance doesn't exist

Output**PUT /v1/projects/{project_id}/dynamips/vms/{vm_id}**

Update a Dynamips VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Instance updated
- **400**: Invalid request

- **404**: Instance doesn't exist
- **409**: Conflict

Input

Output

DELETE /v1/projects/{project_id}/dynamips/vms/{vm_id}

Delete a Dynamips VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance deleted

7.3.3 /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Contents

- /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio
 - POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio
 - * Parameters
 - * Response status codes
 - DELETE /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio
 - * Parameters
 - * Response status codes

POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Add a NIO to a Dynamips VM instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Adapter where the nio should be added
- **port_number**: Port on the adapter
- **vm_id**: UUID for the instance

Response status codes

- **400:** Invalid request
- **201:** NIO created
- **404:** Instance doesn't exist

DELETE /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Remove a NIO from a Dynamips VM instance

Parameters

- **project_id:** UUID for the project
- **adapter_number:** Adapter from where the nio should be removed
- **port_number:** Port on the adapter
- **vm_id:** UUID for the instance

Response status codes

- **400:** Invalid request
- **404:** Instance doesn't exist
- **204:** NIO deleted

7.3.4 /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture

Contents

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture*
 - *POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*

POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture

Start a packet capture on a Dynamips VM instance

Parameters

- **project_id:** UUID for the project
- **adapter_number:** Adapter to start a packet capture
- **port_number:** Port on the adapter

- **vm_id**: UUID for the instance

Response status codes

- **200**: Capture started
- **400**: Invalid request
- **404**: Instance doesn't exist

Input

7.3.5 /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture

Contents

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture*
 - *POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture*
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture

Stop a packet capture on a Dynamips VM instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Adapter to stop a packet capture
- **port_number**: Port on the adapter (always 0)
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Capture stopped

7.3.6 /v1/projects/{project_id}/dynamips/vms/{vm_id}/auto_idlepc

Contents

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/auto_idlepc*
 - *GET /v1/projects/{project_id}/dynamips/vms/{vm_id}/auto_idlepc*
 - * *Response status codes*

GET /v1/projects/{project_id}/dynamips/vms/{vm_id}/auto_idlepc

Retrieve the idlepc proposals

Response status codes

- **200:** Best Idle-pc value found
- **400:** Invalid request
- **404:** Instance doesn't exist

7.3.7 /v1/projects/{project_id}/dynamips/vms/{vm_id}/configs**Contents**

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/configs*
 - *GET /v1/projects/{project_id}/dynamips/vms/{vm_id}/configs*
 - * *Response status codes*
 - * *Output*

GET /v1/projects/{project_id}/dynamips/vms/{vm_id}/configs

Retrieve the startup and private configs content

Response status codes

- **200:** Configs retrieved
- **400:** Invalid request
- **404:** Instance doesn't exist

Output**7.3.8 /v1/projects/{project_id}/dynamips/vms/{vm_id}/configs/save**

Contents

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/configs/save*
 - *POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/configs/save*
 - * *Response status codes*

POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/configs/save

Save the startup and private configs content

Response status codes

- **200:** Configs saved
- **400:** Invalid request
- **404:** Instance doesn't exist

7.3.9 /v1/projects/{project_id}/dynamips/vms/{vm_id}/idlepc_proposals**Contents**

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/idlepc_proposals*
 - *GET /v1/projects/{project_id}/dynamips/vms/{vm_id}/idlepc_proposals*
 - * *Response status codes*

GET /v1/projects/{project_id}/dynamips/vms/{vm_id}/idlepc_proposals

Retrieve the idlepc proposals

Response status codes

- **200:** Idle-PCs retrieved
- **400:** Invalid request
- **404:** Instance doesn't exist

7.3.10 /v1/projects/{project_id}/dynamips/vms/{vm_id}/reload**Contents**

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/reload*
 - *POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/reload*
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/reload

Reload a Dynamips VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance reloaded

7.3.11 /v1/projects/{project_id}/dynamips/vms/{vm_id}/resume

Contents

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/resume*
 - *POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/resume*
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/resume

Resume a suspended Dynamips VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance resumed

7.3.12 /v1/projects/{project_id}/dynamips/vms/{vm_id}/start

Contents

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/start*
 - *POST /v1/projects/{**project_id**}/dynamips/vms/{vm_id}/start*
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/start

Start a Dynamips VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance started

7.3.13 /v1/projects/{project_id}/dynamips/vms/{vm_id}/stop

Contents

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/stop*
 - *POST /v1/projects/{**project_id**}/dynamips/vms/{vm_id}/stop*
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/stop

Stop a Dynamips VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400:** Invalid request
- **404:** Instance doesn't exist
- **204:** Instance stopped

7.3.14 /v1/projects/{project_id}/dynamips/vms/{vm_id}/suspend

Contents

- */v1/projects/{project_id}/dynamips/vms/{vm_id}/suspend*
 - *POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/suspend*
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/dynamips/vms/{vm_id}/suspend

Suspend a Dynamips VM instance

Parameters

- **project_id:** UUID for the project
- **vm_id:** UUID for the instance

Response status codes

- **400:** Invalid request
- **404:** Instance doesn't exist
- **204:** Instance suspended

7.4 Iou

7.4.1 /v1/projects/{project_id}/iou/vms

Contents

- */v1/projects/{project_id}/iou/vms*
 - *POST /v1/projects/{project_id}/iou/vms*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*

POST /v1/projects/{project_id}/iou/vms

Create a new IOU instance

Parameters

- **project_id**: UUID for the project

Response status codes

- **400**: Invalid request
- **201**: Instance created
- **409**: Conflict

Input

Output

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms' -d
POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms HTTP/1.1
{
  "ethernet_adapters": 0,
  "initial_config_content": "hostname test",
  "iourc_content": "test",
  "ll_keepalives": true,
  "name": "PC TEST 1",
  "nvram": 512,
  "path": "/private/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/pytest-4450/test_iou_create_wit
  "ram": 1024,
  "serial_adapters": 4,
  "use_default_iou_values": true
}

HTTP/1.1 201
CONNECTION: keep-alive
CONTENT-LENGTH: 466
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms

{
  "console": 2000,
  "ethernet_adapters": 0,
  "initial_config": "initial-config.cfg",
  "iourc_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmps796q8lx/iourc",
  "ll_keepalives": true,
  "name": "PC TEST 1",
```

```

    "nvram": 512,
    "path": "iou.bin",
    "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
    "ram": 1024,
    "serial_adapters": 4,
    "use_default_iou_values": true,
    "vm_id": "69f5842a-d4e5-45fe-a500-1010c72f1748"
}

```

7.4.2 /v1/projects/{project_id}/iou/vms/{vm_id}

Contents

- */v1/projects/{project_id}/iou/vms/{vm_id}*
 - *GET /v1/projects/{**project_id**}/iou/vms/{vm_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Output*
 - * *Sample session*
 - *PUT /v1/projects/{**project_id**}/iou/vms/{vm_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*
 - *DELETE /v1/projects/{**project_id**}/iou/vms/{vm_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

GET /v1/projects/{project_id}/iou/vms/{vm_id}

Get a IOU instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Success
- **400**: Invalid request
- **404**: Instance doesn't exist

Output

Sample session

```
curl -i -X GET 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/ede1bba5-0723-4fd8-9e89-bdffe5f5c8f'
GET /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/ede1bba5-0723-4fd8-9e89-bdffe5f5c8f HTTP/1.1 200
HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 386
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}

{
  "console": 2000,
  "ethernet_adapters": 2,
  "initial_config": null,
  "iourc_path": null,
  "ll_keepalives": false,
  "name": "PC TEST 1",
  "nvram": 128,
  "path": "iou.bin",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 256,
  "serial_adapters": 2,
  "use_default_iou_values": true,
  "vm_id": "ede1bba5-0723-4fd8-9e89-bdffe5f5c8f"
}
```

PUT /v1/projects/{project_id}/iou/vms/{vm_id}

Update a IOU instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Instance updated
- **400**: Invalid request
- **404**: Instance doesn't exist
- **409**: Conflict

Input

Output

Sample session

```
curl -i -X PUT 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/3812eced-e777-4f35-8c7e-e6736e34fcfd'
PUT /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/3812eced-e777-4f35-8c7e-e6736e34fcfd HTTP/1.1 200
{
  "console": 2001,
  "ethernet_adapters": 4,
  "initial_config_content": "hostname test",
  "iourc_content": "test",
  "ll_keepalives": true,
  "name": "test",
  "nvram": 2048,
  "ram": 512,
  "serial_adapters": 0,
  "use_default_iou_values": true
}

HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 461
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}

{
  "console": 2001,
  "ethernet_adapters": 4,
  "initial_config": "initial-config.cfg",
  "iourc_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpws7fd15e/iourc",
  "ll_keepalives": true,
  "name": "test",
  "nvram": 2048,
  "path": "iou.bin",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 512,
  "serial_adapters": 0,
  "use_default_iou_values": true,
  "vm_id": "3812eced-e777-4f35-8c7e-e6736e34fcfd"
}
```

DELETE /v1/projects/{project_id}/iou/vms/{vm_id}

Delete a IOU instance

Parameters

- **project_id**: UUID for the project

- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance deleted

Sample session

```
curl -i -X DELETE 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/becc8bf8-1936-4076-b7dd-ee83ba078907'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/becc8bf8-1936-4076-b7dd-ee83ba078907

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}
```

7.4.3 /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Contents

- */v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio*
 - *POST /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*
 - *DELETE /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Add a NIO to a IOU instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Network adapter where the nio is located
- **port_number**: Port where the nio should be added

Sample session

```
curl -i -X DELETE 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/779f3f81-60ab-4d26-860c-75f915b1d70b'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/779f3f81-60ab-4d26-860c-75f915b1d70b

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}
```

7.4.4 /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture

Contents

- [/v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture](#)
 - [POST /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture](#)
 - * [Parameters](#)
 - * [Response status codes](#)
 - * [Input](#)
 - * [Sample session](#)

POST /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture

Start a packet capture on a IOU VM instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Adapter to start a packet capture
- **port_number**: Port on the adapter
- **vm_id**: UUID for the instance

Response status codes

- **200**: Capture started
- **400**: Invalid request
- **404**: Instance doesn't exist
- **409**: VM not started

Input

Sample session

```

curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/6056b617-d0c4-4683-bc9e-d0130beec951/a
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/6056b617-d0c4-4683-bc9e-d0130beec951/a
{
  "capture_file_name": "test.pcap",
  "data_link_type": "DLT_EN10MB"
}

HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 158
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}

{
  "pcap_file_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmp367810hd/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/6056b617-d0c4-4683-bc9e-d0130beec951/pcap/test.pcap"
}

```

7.4.5 /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture

Contents

- `/v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture`
 - `POST /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture`
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture

Stop a packet capture on a IOU VM instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Adapter to stop a packet capture
- **port_number**: Port on the adapter (always 0)
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Capture stopped
- **409**: VM not started

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/0fb3c393-7cda-4abc-ad76-a9e7af04abea/'
POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/0fb3c393-7cda-4abc-ad76-a9e7af04abea/
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}
```

7.4.6 /v1/projects/{project_id}/iou/vms/{vm_id}/initial_config

Contents

- */v1/projects/{project_id}/iou/vms/{vm_id}/initial_config*
 - *GET /v1/projects/{project_id}/iou/vms/{vm_id}/initial_config*
 - * *Response status codes*
 - * *Output*
 - * *Sample session*

GET /v1/projects/{project_id}/iou/vms/{vm_id}/initial_config

Retrieve the initial config content

Response status codes

- **200**: Initial config retrieved
- **400**: Invalid request
- **404**: Instance doesn't exist

Output

Sample session

```
curl -i -X GET 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/821b0dc3-4cc0-4899-8184-75bfc22db584/initial_config'

GET /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/821b0dc3-4cc0-4899-8184-75bfc22db584/initial_config HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 25
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/initial_config

{
  "content": "TEST"
}
```

7.4.7 /v1/projects/{project_id}/iou/vms/{vm_id}/reload

Contents

- */v1/projects/{project_id}/iou/vms/{vm_id}/reload*
 - *POST /v1/projects/{project_id}/iou/vms/{vm_id}/reload*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/iou/vms/{vm_id}/reload

Reload a IOU instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance reloaded

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/b32c38db-3692-4719-b94f-2b3f664cd06f/'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/b32c38db-3692-4719-b94f-2b3f664cd06f/
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/reload
```

7.4.8 /v1/projects/{project_id}/iou/vms/{vm_id}/start

Contents

- */v1/projects/{project_id}/iou/vms/{vm_id}/start*
 - *POST /v1/projects/{project_id}/iou/vms/{vm_id}/start*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/iou/vms/{vm_id}/start

Start a IOU instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance started

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/55209a6f-8fe0-49d1-a884-b7cd09547b5c/'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/55209a6f-8fe0-49d1-a884-b7cd09547b5c/
{ }
```



```

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/start

```

7.4.9 /v1/projects/{project_id}/iou/vms/{vm_id}/stop

Contents

- */v1/projects/{project_id}/iou/vms/{vm_id}/stop*
 - *POST /v1/projects/{project_id}/iou/vms/{vm_id}/stop*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/iou/vms/{vm_id}/stop

Stop a IOU instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance stopped

Sample session

```

curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/d893bd2c-d84e-4f89-ad84-f3bdfaf460b6/'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/d893bd2c-d84e-4f89-ad84-f3bdfaf460b6/
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/stop

```

7.5 Network

7.5.1 /v1/interfaces

Contents

- */v1/interfaces*
 - *GET /v1/interfaces*
 - * *Response status codes*
 - * *Sample session*

GET /v1/interfaces

List all the network interfaces available on the server

Response status codes

- **200:** OK

Sample session

```
curl -i -X GET 'http://localhost:8000/v1/interfaces'
```

```
GET /v1/interfaces HTTP/1.1
```

```
HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 718
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/interfaces
```

```
[
  {
    "id": "lo0",
    "name": "lo0"
  },
  {
    "id": "gif0",
    "name": "gif0"
  },
  {
    "id": "stf0",
    "name": "stf0"
  },
  {
    "id": "en0",
    "name": "en0"
  }
]
```

```

    },
    {
      "id": "en1",
      "name": "en1"
    },
    {
      "id": "fw0",
      "name": "fw0"
    },
    {
      "id": "en2",
      "name": "en2"
    },
    {
      "id": "p2p0",
      "name": "p2p0"
    },
    {
      "id": "bridge0",
      "name": "bridge0"
    },
    {
      "id": "vboxnet0",
      "name": "vboxnet0"
    },
    {
      "id": "vboxnet1",
      "name": "vboxnet1"
    },
    {
      "id": "vboxnet2",
      "name": "vboxnet2"
    }
  ]

```

7.5.2 /v1/projects/{project_id}/ports/udp

Contents

- /v1/projects/{project_id}/ports/udp
 - POST /v1/projects/{project_id}/ports/udp
 - * Parameters
 - * Response status codes
 - * Sample session

POST /v1/projects/{project_id}/ports/udp

Allocate an UDP port on the server

Parameters

- **project_id**: The UUID of the project

Response status codes

- **201**: UDP port allocated
- **404**: The project doesn't exist

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/ports/udp' -c-

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/ports/udp HTTP/1.1
{}

HTTP/1.1 201
CONNECTION: keep-alive
CONTENT-LENGTH: 25
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/ports/udp

{
  "udp_port": 10000
}
```

7.6 Project

7.6.1 /v1/projects

Contents

- */v1/projects*
 - *POST /v1/projects*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*

POST /v1/projects

Create a new project on the server

Response status codes

- **201**: Project created
- **409**: Project already created

Input

Output

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects' -d '{"name": "test"}'

POST /v1/projects HTTP/1.1
{
  "name": "test"
}

HTTP/1.1 201
CONNECTION: keep-alive
CONTENT-LENGTH: 297
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects

{
  "location": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmp_6lclsv7",
  "name": "test",
  "path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmp_6lclsv7/187543e2-5d46-4108-a623-cfdd31fa300e",
  "project_id": "187543e2-5d46-4108-a623-cfdd31fa300e",
  "temporary": false
}
```

7.6.2 /v1/projects/{project_id}

Contents

- */v1/projects/{project_id}*
 - *GET /v1/projects/{project_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Output*
 - * *Sample session*
 - *PUT /v1/projects/{project_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*
 - *DELETE /v1/projects/{project_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

GET /v1/projects/{project_id}

Get project information

Parameters

- **project_id**: The UUID of the project

Response status codes

- **200**: Success
- **404**: The project doesn't exist

Output

Sample session

```
curl -i -X GET 'http://localhost:8000/v1/projects/00010203-0405-0607-0809-0a0b0c0d0e02'

GET /v1/projects/00010203-0405-0607-0809-0a0b0c0d0e02 HTTP/1.1

HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 297
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}

{
  "location": "/var/folders/3s/r2wbv07n7wg4vrns874lmxxh0000gn/T/tmpbzo0jp9",
  "name": "test",
  "path": "/var/folders/3s/r2wbv07n7wg4vrns874lmxxh0000gn/T/tmpbzo0jp9/00010203-0405-0607-0809-0a0b0c0d0e02",
  "project_id": "00010203-0405-0607-0809-0a0b0c0d0e02",
  "temporary": false
}
```

PUT /v1/projects/{project_id}

Update a project

Parameters

- **project_id**: The UUID of the project

Response status codes

- **200:** The project has been updated
- **403:** You are not allowed to modify this property
- **404:** The project doesn't exist

Input

Output

Sample session

```
curl -i -X PUT 'http://localhost:8000/v1/projects/b32aab45-411c-4171-9f20-357eaa00d54c' -d '{"name":
PUT /v1/projects/b32aab45-411c-4171-9f20-357eaa00d54c HTTP/1.1
{
  "name": "second_name",
  "path": "/private/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/pytest-4450/test_update_path_p
}

HTTP/1.1 403
CONNECTION: keep-alive
CONTENT-LENGTH: 100
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}

{
  "message": "You are not allowed to modify the project directory location",
  "status": 403
}
```

DELETE /v1/projects/{project_id}

Delete a project from disk

Parameters

- **project_id:** The UUID of the project

Response status codes

- **404:** The project doesn't exist
- **204:** Changes have been written on disk

Sample session

```
curl -i -X DELETE 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80 HTTP/1.1

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}
```

7.6.3 /v1/projects/{project_id}/close

Contents

- */v1/projects/{project_id}/close*
 - *POST /v1/projects/{project_id}/close*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/close

Close a project

Parameters

- **project_id**: The UUID of the project

Response status codes

- **404**: The project doesn't exist
- **204**: The project has been closed

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/close' -d '{}'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/close HTTP/1.1
{}

HTTP/1.1 204
CONNECTION: keep-alive
```



```

CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/close

```

7.6.4 /v1/projects/{project_id}/commit

Contents

- */v1/projects/{project_id}/commit*
 - *POST /v1/projects/{**project_id**}/commit*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/commit

Write changes on disk

Parameters

- **project_id**: The UUID of the project

Response status codes

- **404**: The project doesn't exist
- **204**: Changes have been written on disk

Sample session

```

curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/commit' -d '
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/commit HTTP/1.1
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/commit

```

7.7 Qemu

7.7.1 /v1/projects/{project_id}/qemu/vms

Contents

- */v1/projects/{project_id}/qemu/vms*
 - *POST /v1/projects/{project_id}/qemu/vms*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*

POST /v1/projects/{project_id}/qemu/vms

Create a new Qemu.instance

Parameters

- **project_id**: UUID for the project

Response status codes

- **400**: Invalid request
- **201**: Instance created
- **409**: Conflict

Input

Output

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms' -d
POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms HTTP/1.1
{
  "hda_disk_image": "/tmp/hda",
  "name": "PC TEST 1",
  "qemu_path": "/var/folders/3s/r2wbv07n7wg4vrns874lmxxh0000gn/T/tmpyasp9636/qemu_x42",
  "ram": 1024
}

HTTP/1.1 201
CONNECTION: keep-alive
```

```

CONTENT-LENGTH: 606
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms

{
  "adapter_type": "e1000",
  "adapters": 1,
  "console": 2000,
  "cpu_throttling": 0,
  "hda_disk_image": "/tmp/hda",
  "hdb_disk_image": "",
  "hdc_disk_image": "",
  "hdd_disk_image": "",
  "initrd": "",
  "kernel_command_line": "",
  "kernel_image": "",
  "legacy_networking": false,
  "name": "PC TEST 1",
  "options": "",
  "process_priority": "low",
  "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
  "qemu_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpyasp9636/qemu_x42",
  "ram": 1024,
  "vm_id": "8c325041-39a8-4c31-b921-b66dadadc353"
}

```

7.7.2 /v1/projects/{project_id}/qemu/vms/{vm_id}

Contents

- */v1/projects/{project_id}/qemu/vms/{vm_id}*
 - *GET /v1/projects/{project_id}/qemu/vms/{vm_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Output*
 - * *Sample session*
 - *PUT /v1/projects/{project_id}/qemu/vms/{vm_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*
 - *DELETE /v1/projects/{project_id}/qemu/vms/{vm_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

GET /v1/projects/{project_id}/qemu/vms/{vm_id}

Get a Qemu.instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Success
- **400**: Invalid request
- **404**: Instance doesn't exist

Output

Sample session

```
curl -i -X GET 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/e3935d2d-2bf9-4cde-8c7e-0bd1d74c3dad'

GET /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/e3935d2d-2bf9-4cde-8c7e-0bd1d74c3dad HTTP/1.1

HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 597
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}

{
  "adapter_type": "e1000",
  "adapters": 1,
  "console": 2000,
  "cpu_throttling": 0,
  "hda_disk_image": "",
  "hdb_disk_image": "",
  "hdc_disk_image": "",
  "hdd_disk_image": "",
  "initrd": "",
  "kernel_command_line": "",
  "kernel_image": "",
  "legacy_networking": false,
  "name": "PC TEST 1",
  "options": "",
  "process_priority": "low",
  "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
  "qemu_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpyasp9636/qemu_x42",
  "ram": 256,
  "vm_id": "e3935d2d-2bf9-4cde-8c7e-0bd1d74c3dad"
}
```

PUT /v1/projects/{project_id}/qemu/vms/{vm_id}

Update a Qemu.instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Instance updated
- **400**: Invalid request
- **404**: Instance doesn't exist
- **409**: Conflict

Input**Output****Sample session**

```
curl -i -X PUT 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/e5b90e65-6f6a-4d44-b2d8-3a5c3a4a626b'
PUT /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/e5b90e65-6f6a-4d44-b2d8-3a5c3a4a626b
{
  "console": 2001,
  "hdb_disk_image": "/tmp/hdb",
  "name": "test",
  "ram": 1024
}

HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 601
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}

{
  "adapter_type": "e1000",
  "adapters": 1,
  "console": 2001,
  "cpu_throttling": 0,
  "hda_disk_image": "",
  "hdb_disk_image": "/tmp/hdb",
  "hdc_disk_image": "",
  "hdd_disk_image": "",
  "initrd": "",
```

```
{
  "kernel_command_line": "",
  "kernel_image": "",
  "legacy_networking": false,
  "name": "test",
  "options": "",
  "process_priority": "low",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "qemu_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpyasp9636/qemu_x42",
  "ram": 1024,
  "vm_id": "e5b90e65-6f6a-4d44-b2d8-3a5c3a4a626b"
}
```

DELETE /v1/projects/{project_id}/qemu/vms/{vm_id}

Delete a Qemu.instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance deleted

Sample session

```
curl -i -X DELETE 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/6537c17b-2e47-46f9-b96b-6fc66382709c'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/6537c17b-2e47-46f9-b96b-6fc66382709c

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}
```

7.7.3 /v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}

Contents

- `/v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio`
 - `POST /v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio`
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*
 - `DELETE /v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio`
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Add a NIO to a Qemu.instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Network adapter where the nio is located
- **port_number**: Port on the adapter (always 0)
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **201**: NIO created
- **404**: Instance doesn't exist

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/e791569e-7f95-4a1d-9f8d-b48611afeef3'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/e791569e-7f95-4a1d-9f8d-b48611afeef3/
{
  "ethernet_device": "eth0",
  "type": "nio_generic_ethernet"
}

HTTP/1.1 201
CONNECTION: keep-alive
CONTENT-LENGTH: 69
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number
```

```
{
  "ethernet_device": "eth0",
  "type": "nio_generic_ethernet"
}
```

DELETE /v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Remove a NIO from a Qemu.instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Network adapter where the nio is located
- **port_number**: Port on the adapter (always 0)
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: NIO deleted

Sample session

```
curl -i -X DELETE 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/b54e4616-058f-413d-a589-0b7c5da20aa8'
DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/b54e4616-058f-413d-a589-0b7c5da20aa8/nio/0

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio
```

7.7.4 /v1/projects/{project_id}/qemu/vms/{vm_id}/reload

Contents

- */v1/projects/{project_id}/qemu/vms/{vm_id}/reload*
 - *POST /v1/projects/{project_id}/qemu/vms/{vm_id}/reload*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/qemu/vms/{vm_id}/reload

Reload a Qemu.instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance reloaded

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/e6de45b1-048b-498b-9875-de76762532e9'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/e6de45b1-048b-498b-9875-de76762532e9/
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/reload
```

7.7.5 /v1/projects/{project_id}/qemu/vms/{vm_id}/resume

Contents

- */v1/projects/{project_id}/qemu/vms/{vm_id}/resume*
 - *POST /v1/projects/{project_id}/qemu/vms/{vm_id}/resume*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/qemu/vms/{vm_id}/resume

Resume a Qemu.instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance resumed

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/d7152d7c-7f23-4d92-9ee1-fae132a50b3b'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/d7152d7c-7f23-4d92-9ee1-fae132a50b3b/
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/resume
```

7.7.6 /v1/projects/{project_id}/qemu/vms/{vm_id}/start

Contents

- */v1/projects/{project_id}/qemu/vms/{vm_id}/start*
 - *POST /v1/projects/{project_id}/qemu/vms/{vm_id}/start*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/qemu/vms/{vm_id}/start

Start a Qemu.instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400:** Invalid request
- **404:** Instance doesn't exist
- **204:** Instance started

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/031c1e57-577c-4ff4-91d1-da6fe0816fdd'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/031c1e57-577c-4ff4-91d1-da6fe0816fdd
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/start
```

7.7.7 /v1/projects/{project_id}/qemu/vms/{vm_id}/stop

Contents

- */v1/projects/{project_id}/qemu/vms/{vm_id}/stop*
 - *POST /v1/projects/{project_id}/qemu/vms/{vm_id}/stop*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/qemu/vms/{vm_id}/stop

Stop a Qemu.instance

Parameters

- **project_id:** UUID for the project
- **vm_id:** UUID for the instance

Response status codes

- **400:** Invalid request
- **404:** Instance doesn't exist
- **204:** Instance stopped

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/79ca17e8-0194-4682-bb2a-0bdd9f7d1e1a'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/79ca17e8-0194-4682-bb2a-0bdd9f7d1e1a/stop
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/stop
```

7.7.8 /v1/projects/{project_id}/qemu/vms/{vm_id}/suspend

Contents

- */v1/projects/{project_id}/qemu/vms/{vm_id}/suspend*
 - *POST /v1/projects/{project_id}/qemu/vms/{vm_id}/suspend*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/qemu/vms/{vm_id}/suspend

Suspend a Qemu.instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance suspended

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/7e24f49b-51ea-410f-bc94-16fc58071493'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/7e24f49b-51ea-410f-bc94-16fc58071493/suspend
{}

```

```

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/suspend

```

7.7.9 /v1/qemu/binaries

Contents

- */v1/qemu/binaries*
 - *GET /v1/qemu/binaries*
 - * *Response status codes*
 - * *Sample session*

GET /v1/qemu/binaries

Get a list of available Qemu binaries

Response status codes

- **200:** Success
- **400:** Invalid request
- **404:** Instance doesn't exist

Sample session

```

curl -i -X GET 'http://localhost:8000/v1/qemu/binaries'

GET /v1/qemu/binaries HTTP/1.1

HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 134
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/qemu/binaries

[
  {
    "path": "/tmp/1",
    "version": "2.2.0"
  },
  {
    "path": "/tmp/2",

```

```
    "version": "2.1.0"  
  }  
]
```

7.8 Server

7.8.1 /v1/server/shutdown

Contents

- */v1/server/shutdown*
 - *POST /v1/server/shutdown*
 - * *Response status codes*

POST /v1/server/shutdown

Shutdown the local server

Response status codes

- **201**: Server is shutting down
- **403**: Server shutdown refused

7.9 Version

7.9.1 /v1/version

Contents

- */v1/version*
 - *GET /v1/version*
 - * *Response status codes*
 - * *Output*
 - * *Sample session*
 - *POST /v1/version*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*

GET /v1/version

Retrieve the server version number

Response status codes

- **200:** OK

Output

Sample session

```
curl -i -X GET 'http://localhost:8000/v1/version'

GET /v1/version HTTP/1.1

HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 49
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/version

{
  "local": true,
  "version": "1.3.1.rc2"
}
```

POST /v1/version

Check if version is the same as the server

Response status codes

- **200:** Same version
- **409:** Invalid version

Input

Output

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/version' -d '{"version": "1.3.1.rc2"}'

POST /v1/version HTTP/1.1
{
  "version": "1.3.1.rc2"
}
```

```
HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 30
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/version

{
  "version": "1.3.1.rc2"
}
```

7.10 Virtualbox

7.10.1 /v1/projects/{project_id}/virtualbox/vms

Contents

- */v1/projects/{project_id}/virtualbox/vms*
 - *POST /v1/projects/{project_id}/virtualbox/vms*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*

POST /v1/projects/{project_id}/virtualbox/vms

Create a new VirtualBox VM instance

Parameters

- **project_id**: UUID for the project

Response status codes

- **400**: Invalid request
- **201**: Instance created
- **409**: Conflict

Input**Output****Sample session**

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms'

POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms HTTP/1.1
{
  "linked_clone": false,
  "name": "VM1",
  "vmname": "VM1"
}

HTTP/1.1 201
CONNECTION: keep-alive
CONTENT-LENGTH: 355
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms

{
  "adapter_type": "Intel PRO/1000 MT Desktop (82540EM)",
  "adapters": 0,
  "console": 2000,
  "enable_remote_console": false,
  "headless": false,
  "name": "VM1",
  "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 0,
  "use_any_adapter": false,
  "vm_id": "fd208626-81e5-449e-b145-fd6993f5097c",
  "vmname": "VM1"
}
```

7.10.2 /v1/projects/{project_id}/virtualbox/vms/{vm_id}

Contents

- `/v1/projects/{project_id}/virtualbox/vms/{vm_id}`
 - `GET /v1/projects/{project_id}/virtualbox/vms/{vm_id}`
 - * *Parameters*
 - * *Response status codes*
 - * *Output*
 - * *Sample session*
 - `PUT /v1/projects/{project_id}/virtualbox/vms/{vm_id}`
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*
 - `DELETE /v1/projects/{project_id}/virtualbox/vms/{vm_id}`
 - * *Parameters*
 - * *Response status codes*

GET /v1/projects/{project_id}/virtualbox/vms/{vm_id}

Get a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Success
- **400**: Invalid request
- **404**: Instance doesn't exist

Output**Sample session**

```
curl -i -X GET 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/f49ff215-0872-4bf7-90c8-3d9ecc2b1e1e'

GET /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/f49ff215-0872-4bf7-90c8-3d9ecc2b1e1e

HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 361
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
```

```
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}

{
  "adapter_type": "Intel PRO/1000 MT Desktop (82540EM)",
  "adapters": 0,
  "console": 2001,
  "enable_remote_console": false,
  "headless": false,
  "name": "VMTEST",
  "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 0,
  "use_any_adapter": false,
  "vm_id": "f49ff215-0872-4bf7-90c8-3d9ecc2b2f2b",
  "vmname": "VMTEST"
}
```

PUT /v1/projects/{project_id}/virtualbox/vms/{vm_id}

Update a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Instance updated
- **400**: Invalid request
- **404**: Instance doesn't exist
- **409**: Conflict

Input

Output

Sample session

```
curl -i -X PUT 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/514963f5-93f8-4d18-bcd6-7d50ef72'

PUT /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/514963f5-93f8-4d18-bcd6-7d50ef72
{
  "console": 2010,
  "name": "test"
}

HTTP/1.1 200
CONNECTION: keep-alive
```

```
CONTENT-LENGTH: 359
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}
```

```
{
  "adapter_type": "Intel PRO/1000 MT Desktop (82540EM)",
  "adapters": 0,
  "console": 2010,
  "enable_remote_console": false,
  "headless": false,
  "name": "test",
  "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 0,
  "use_any_adapter": false,
  "vm_id": "514963f5-93f8-4d18-bcd6-7d50ef7164a6",
  "vmname": "VMTEST"
}
```

DELETE /v1/projects/{project_id}/virtualbox/vms/{vm_id}

Delete a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance deleted

7.10.3 /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Contents

- */v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio*
 - *POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*
 - *DELETE /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Add a NIO to a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Adapter where the nio should be added
- **port_number**: Port on the adapter (always 0)
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **201**: NIO created
- **404**: Instance doesn't exist

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/5463a797-0eb0-41d2-8b32-1efbd7a0c0e0/adapters/0/ports/0/nio'
POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/5463a797-0eb0-41d2-8b32-1efbd7a0c0e0/adapters/0/ports/0/nio
{
  "lport": 4242,
  "rhost": "127.0.0.1",
  "rport": 4343,
  "type": "nio_udp"
}

HTTP/1.1 201
CONNECTION: keep-alive
CONTENT-LENGTH: 89
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}/nio
{
  "lport": 4242,
  "rhost": "127.0.0.1",
  "rport": 4343,
  "type": "nio_udp"
}
```

DELETE /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Remove a NIO from a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Adapter from where the nio should be removed
- **port_number**: Port on the adapter (always 0)
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: NIO deleted

Sample session

```
curl -i -X DELETE 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/387fb016-f1fc-4844-a25e-97c080000000/ports/0'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/387fb016-f1fc-4844-a25e-97c080000000/ports/0

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}
```

7.10.4 /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}

Contents

- */v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture*
 - *POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*

POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/start_capture

Start a packet capture on a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project

- **adapter_number**: Adapter to start a packet capture
- **port_number**: Port on the adapter (always 0)
- **vm_id**: UUID for the instance

Response status codes

- **200**: Capture started
- **400**: Invalid request
- **404**: Instance doesn't exist

Input

7.10.5 /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture

Contents

- */v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture*
 - *POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture*
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture

Stop a packet capture on a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Adapter to stop a packet capture
- **port_number**: Port on the adapter (always 0)
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Capture stopped

7.10.6 /v1/projects/{project_id}/virtualbox/vms/{vm_id}/reload

Contents

- */v1/projects/{project_id}/virtualbox/vms/{vm_id}/reload*
 - *POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/reload*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/reload

Reload a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance reloaded

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/f24209c8-671e-428a-9561-db4775123456'
POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/f24209c8-671e-428a-9561-db4775123456
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/reload
```

7.10.7 /v1/projects/{project_id}/virtualbox/vms/{vm_id}/resume

Contents

- */v1/projects/{project_id}/virtualbox/vms/{vm_id}/resume*
 - *POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/resume*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/resume

Resume a suspended VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance resumed

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/70df82f6-e868-4ab3-9be9-d45687700000'
POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/70df82f6-e868-4ab3-9be9-d45687700000
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/resume
```

7.10.8 /v1/projects/{project_id}/virtualbox/vms/{vm_id}/start

Contents

- */v1/projects/{project_id}/virtualbox/vms/{vm_id}/start*
 - *POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/start*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/start

Start a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance started

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/354d48fe-cab6-41d8-8cc1-64716e000000'

POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/354d48fe-cab6-41d8-8cc1-64716e000000
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/start
```

7.10.9 /v1/projects/{project_id}/virtualbox/vms/{vm_id}/stop**Contents**

- */v1/projects/{project_id}/virtualbox/vms/{vm_id}/stop*
 - *POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/stop*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/stop

Stop a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance stopped

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/90733316-a02a-490b-b8c4-e6ea4a1e1e1e'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/90733316-a02a-490b-b8c4-e6ea4a1e1e1e
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/stop
```

7.10.10 /v1/projects/{project_id}/virtualbox/vms/{vm_id}/suspend

Contents

- */v1/projects/{project_id}/virtualbox/vms/{vm_id}/suspend*
 - *POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/suspend*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/virtualbox/vms/{vm_id}/suspend

Suspend a VirtualBox VM instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance suspended

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/0f257aa5-d61d-4ee9-872a-898462100000'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/0f257aa5-d61d-4ee9-872a-898462100000
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/suspend
```

7.10.11 /v1/virtualbox/vms

Contents

- */v1/virtualbox/vms*
 - *GET /v1/virtualbox/vms*
 - * *Response status codes*

GET /v1/virtualbox/vms

Get all VirtualBox VMs available

Response status codes

- **200**: Success

7.11 Vpcs

7.11.1 /v1/projects/{project_id}/vpcs/vms

Contents

- */v1/projects/{project_id}/vpcs/vms*
 - *POST /v1/projects/{project_id}/vpcs/vms*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*

POST /v1/projects/{project_id}/vpcs/vms

Create a new VPCS instance

Parameters

- **project_id**: UUID for the project

Response status codes

- **400**: Invalid request
- **201**: Instance created
- **409**: Conflict

Input

Output

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms' -d
{
  "name": "PC TEST 1"
}

POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms HTTP/1.1

HTTP/1.1 201
CONNECTION: keep-alive
CONTENT-LENGTH: 220
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
```

```
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/vpcs/vms

{
  "console": 2009,
  "name": "PC TEST 1",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "startup_script": null,
  "startup_script_path": null,
  "vm_id": "68c6af80-0a82-406e-b051-24c95bd728f4"
}
```

7.11.2 /v1/projects/{project_id}/vpcs/vms/{vm_id}

Contents

- */v1/projects/{project_id}/vpcs/vms/{vm_id}*
 - *GET /v1/projects/{project_id}/vpcs/vms/{vm_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Output*
 - * *Sample session*
 - *PUT /v1/projects/{project_id}/vpcs/vms/{vm_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*
 - * *Sample session*
 - *DELETE /v1/projects/{project_id}/vpcs/vms/{vm_id}*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

GET /v1/projects/{project_id}/vpcs/vms/{vm_id}

Get a VPCS instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Success
- **400**: Invalid request
- **404**: Instance doesn't exist

Output

Sample session

```
curl -i -X GET 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/3ff6ff9e-93de-45ae-a7ec-e296d406ffe1'

GET /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/3ff6ff9e-93de-45ae-a7ec-e296d406ffe1 HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 220
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}

{
  "console": 2009,
  "name": "PC TEST 1",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "startup_script": null,
  "startup_script_path": null,
  "vm_id": "3ff6ff9e-93de-45ae-a7ec-e296d406ffe1"
}
```

PUT /v1/projects/{project_id}/vpcs/vms/{vm_id}

Update a VPCS instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **200**: Instance updated
- **400**: Invalid request
- **404**: Instance doesn't exist
- **409**: Conflict

Input

Output

Sample session

```
curl -i -X PUT 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/4905e649-6e81-446d-a60b-fd8b058a85e8'

PUT /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/4905e649-6e81-446d-a60b-fd8b058a85e8 HTTP/1.1 200
{
  "console": 2011,
  "name": "test",
  "startup_script": "ip 192.168.1.1"
}

HTTP/1.1 200
CONNECTION: keep-alive
CONTENT-LENGTH: 236
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}

{
  "console": 2011,
  "name": "test",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "startup_script": "ip 192.168.1.1",
  "startup_script_path": "startup.vpc",
  "vm_id": "4905e649-6e81-446d-a60b-fd8b058a85e8"
}
```

DELETE /v1/projects/{project_id}/vpcs/vms/{vm_id}

Delete a VPCS instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance deleted

Sample session

```
curl -i -X DELETE 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/6bc73868-fea6-449b-af5c-e7b746e41290'
DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/6bc73868-fea6-449b-af5c-e7b746e41290

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}
```

7.11.3 /v1/projects/{project_id}/vpcs/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Contents

- */v1/projects/{project_id}/vpcs/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio*
 - *POST /v1/projects/{project_id}/vpcs/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*
 - *DELETE /v1/projects/{project_id}/vpcs/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/vpcs/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Add a NIO to a VPCS instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Network adapter where the nio is located
- **port_number**: Port where the nio should be added
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **201**: NIO created
- **404**: Instance doesn't exist

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/4125e37f-2bf1-435c-a86c-ae1fce4c916a'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/4125e37f-2bf1-435c-a86c-ae1fce4c916a
{
  "lport": 4242,
  "rhost": "127.0.0.1",
  "rport": 4343,
  "type": "nio_udp"
}

HTTP/1.1 201
CONNECTION: keep-alive
CONTENT-LENGTH: 89
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

{
  "lport": 4242,
  "rhost": "127.0.0.1",
  "rport": 4343,
  "type": "nio_udp"
}
```

DELETE /v1/projects/{project_id}/vpcs/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Remove a NIO from a VPCS instance

Parameters

- **project_id**: UUID for the project
- **adapter_number**: Network adapter where the nio is located
- **port_number**: Port from where the nio should be removed
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: NIO deleted

Sample session

```
curl -i -X DELETE 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/f7d1d6ad-422b-486a-8d23-1ff46cd8bc'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/f7d1d6ad-422b-486a-8d23-1ff46cd8bc

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number}
```

7.11.4 /v1/projects/{project_id}/vpcs/vms/{vm_id}/reload

Contents

- */v1/projects/{project_id}/vpcs/vms/{vm_id}/reload*
 - *POST /v1/projects/{project_id}/vpcs/vms/{vm_id}/reload*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/vpcs/vms/{vm_id}/reload

Reload a VPCS instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance reloaded

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/4c5c5174-07bf-4f2a-93ab-cec244e24852'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/4c5c5174-07bf-4f2a-93ab-cec244e24852
{}

HTTP/1.1 204
```

```
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}/reload
```

7.11.5 /v1/projects/{project_id}/vpcs/vms/{vm_id}/start

Contents

- */v1/projects/{project_id}/vpcs/vms/{vm_id}/start*
 - *POST /v1/projects/{project_id}/vpcs/vms/{vm_id}/start*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/vpcs/vms/{vm_id}/start

Start a VPCS instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance started

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/43ac3ea8-78a7-405e-ad5e-653293c48e66'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/43ac3ea8-78a7-405e-ad5e-653293c48e66
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}/start
```

7.11.6 /v1/projects/{project_id}/vpcs/vms/{vm_id}/stop

Contents

- */v1/projects/{project_id}/vpcs/vms/{vm_id}/stop*
 - *POST /v1/projects/{project_id}/vpcs/vms/{vm_id}/stop*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

POST /v1/projects/{project_id}/vpcs/vms/{vm_id}/stop

Stop a VPCS instance

Parameters

- **project_id**: UUID for the project
- **vm_id**: UUID for the instance

Response status codes

- **400**: Invalid request
- **404**: Instance doesn't exist
- **204**: Instance stopped

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/59df4b41-6a23-4c99-9370-600b3a2cff23'
POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/59df4b41-6a23-4c99-9370-600b3a2cff23/stop
{}

HTTP/1.1 204
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.4 GNS3/1.3.1.rc2
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}/stop
```