
GNS3 Documentation

Release 1.4.2dev1

GNS3 Team

February 05, 2016

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.

Notifications

You can receive notification from the server if you listen the HTTP stream /notifications.

The available notification are: * ping * vm.created * vm.started * vm.stopped * log.error

6.1 VM

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

6.2 Adapter

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

6.3 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

7.1 Code convention

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

7.2 Documentation

7.2.1 Build doc

In the project root folder:

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

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

7.3 Tests

7.3.1 Run tests

```
py.test -v
```

API Endpoints

8.1 Config

8.1.1 /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  
ACCESS-CONTROL-ALLOW-ORIGIN: *  
CONNECTION: keep-alive  
CONTENT-LENGTH: 0  
DATE: Thu, 08 Jan 2015 16:09:15 GMT  
SERVER: Python/3.5 GNS3/1.4.0dev13
```

```
X-ROUTE: /v1/config/reload
```

8.2 Docker

8.2.1 /v1/docker/images

Contents

- */v1/docker/images*
 - *GET /v1/docker/images*
 - * *Response status codes*

GET /v1/docker/images

Get all available Docker images

Response status codes

- **200:** Success

8.2.2 /v1/projects/{project_id}/docker/images

Contents

- */v1/projects/{project_id}/docker/images*
 - *POST /v1/projects/{project_id}/docker/images*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*

POST /v1/projects/{project_id}/docker/images

Create a new Docker container

Parameters

- **project_id:** UUID for the project

Response status codes

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

Input**Output****8.2.3 /v1/projects/{project_id}/docker/images/{id}****Contents**

- /v1/projects/{project_id}/docker/images/{id}
 - **DELETE** /v1/projects/{project_id}/docker/images/{id}
 - * *Parameters*
 - * *Response status codes*

DELETE /v1/projects/{project_id}/docker/images/{id}

Delete a Docker container

Parameters

- **id:** ID for the container
- **project_id:** UUID for the project

Response status codes

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

8.2.4 /v1/projects/{project_id}/docker/images/{id}/adapters/{adapter_number:d+}/ports/{port_number:d+}

Contents

- `/v1/projects/{project_id}/docker/images/{id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio`
 - `POST /v1/projects/{project_id}/docker/images/{id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio`
 - * *Parameters*
 - * *Response status codes*
 - `DELETE /v1/projects/{project_id}/docker/images/{id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio`
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/docker/images/{id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Add a NIO to a Docker container

Parameters

- **id**: ID of the container
- **adapter_number**: Adapter where the nio should be added
- **project_id**: UUID for the project
- **port_number**: Port on the adapter

Response status codes

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

DELETE /v1/projects/{project_id}/docker/images/{id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Remove a NIO from a Docker container

Parameters

- **id**: ID of the container
- **adapter_number**: Adapter where the nio should be added
- **project_id**: UUID for the project
- **port_number**: Port on the adapter

Response status codes

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

8.2.5 /v1/projects/{project_id}/docker/images/{id}/reload

Contents

- */v1/projects/{project_id}/docker/images/{id}/reload*
 - *POST /v1/projects/{project_id}/docker/images/{id}/reload*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*

POST /v1/projects/{project_id}/docker/images/{id}/reload

Restart a Docker container

Parameters

- **id**: ID of the container
- **project_id**: UUID of the project

Response status codes

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

Input

Output

8.2.6 /v1/projects/{project_id}/docker/images/{id}/start

Contents

- */v1/projects/{project_id}/docker/images/{id}/start*
 - *POST /v1/projects/{project_id}/docker/images/{id}/start*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*

POST /v1/projects/{project_id}/docker/images/{id}/start

Start a Docker container

Parameters

- **id**: ID of the container
- **project_id**: UUID of the project

Response status codes

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

Input

Output

8.2.7 /v1/projects/{project_id}/docker/images/{id}/stop

Contents

- */v1/projects/{project_id}/docker/images/{id}/stop*
 - *POST /v1/projects/{**project_id**}/docker/images/{id}/stop*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*

POST /v1/projects/{project_id}/docker/images/{id}/stop

Stop a Docker container

Parameters

- **id**: ID of the container
- **project_id**: UUID of the project

Response status codes

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

Input

Output

8.2.8 /v1/projects/{project_id}/docker/images/{id}/suspend

Contents

- */v1/projects/{project_id}/docker/images/{id}/suspend*
 - *POST /v1/projects/{project_id}/docker/images/{id}/suspend*
 - * *Parameters*
 - * *Response status codes*
 - * *Input*
 - * *Output*

POST /v1/projects/{project_id}/docker/images/{id}/suspend

Pause a Docker container

Parameters

- **id**: ID of the container
- **project_id**: UUID of the project

Response status codes

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

Input

Output

8.3 Dynamips device

8.3.1 /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

8.3.2 /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

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

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

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

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

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

Response status codes

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

8.3.3 /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*
 - *NAT*
 - *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

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

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

NAT NAT 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

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

Response status codes

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

8.3.4 `/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

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

Response status codes

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

Input

8.3.5 /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

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

Response status codes

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

8.4 Dynamips vm

8.4.1 /v1/dynamips/vms

Contents

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

GET /v1/dynamips/vms

Retrieve the list of Dynamips VMS

Response status codes

- **200**: List of Dynamips VM retrieved

8.4.2 /v1/dynamips/vms/{path}

Contents

- */v1/dynamips/vms/{path}*
 - *POST /v1/dynamips/vms/{path}*
 - * *Response status codes*

POST /v1/dynamips/vms/{path}

Upload Dynamips image.

Response status codes

- **204**: Image uploaded

8.4.3 /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

8.4.4 /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

8.4.5 /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

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

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

Response status codes

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

8.4.6 /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

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

Response status codes

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

Input

8.4.7 /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

Stop a packet capture on a Dynamips VM instance

Parameters

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

Response status codes

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

8.4.8 /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

8.4.9 /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**8.4.10 /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

8.4.11 /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

8.4.12 /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

8.4.13 /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

8.4.14 /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

8.4.15 /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

8.4.16 /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

8.5 File

8.5.1 /v1/files/stream

Contents

- */v1/files/stream*
 - *GET /v1/files/stream*
 - * *Response status codes*
 - * *Input*

GET /v1/files/stream

Stream a file from the server

Response status codes

- **200**: File retrieved
- **409**: Can't access to file
- **404**: File doesn't exist

Input

8.6 Iou

8.6.1 /v1/iou/vms

Contents

- */v1/iou/vms*
 - *GET /v1/iou/vms*
 - * *Response status codes*
 - * *Sample session*

GET /v1/iou/vms

Retrieve the list of IOU VMS

Response status codes

- **200:** List of IOU VM retrieved

Sample session

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

```
GET /v1/iou/vms HTTP/1.1
```

```
HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 72
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/iou/vms
```

```
[
  {
    "filename": "iou.bin",
    "path": "iou.bin"
  }
]
```

8.6.2 /v1/iou/vms/{path}**Contents**

- */v1/iou/vms/{path}*
 - *POST /v1/iou/vms/{path}*
 - * *Response status codes*

POST /v1/iou/vms/{path}

Upload IOU image.

Response status codes

- **204**: Image uploaded

8.6.3 /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/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms' -d
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms HTTP/1.1
{
  "name": "PC TEST 1",
  "path": "iou.bin",
```



```

    "startup_config_content": "hostname test",
    "vm_id": "afa904bc-8968-4e7c-87b6-11d92174f1e6"
}

HTTP/1.1 201
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 626
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms

{
  "console": 2001,
  "ethernet_adapters": 2,
  "iourc_path": null,
  "ll_keepalives": false,
  "md5sum": null,
  "name": "PC TEST 1",
  "nvram": 128,
  "path": "iou.bin",
  "private_config": null,
  "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 256,
  "serial_adapters": 2,
  "startup_config": "startup-config.cfg",
  "use_default_iou_values": true,
  "vm_directory": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmp2yt9sd11/ale920ca-338a-4e9f-b363-aa607b09dd80",
  "vm_id": "afa904bc-8968-4e7c-87b6-11d92174f1e6"
}

```

8.6.4 /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/82f6e25c-6960-421d-9567-a7453642935b'

GET /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/82f6e25c-6960-421d-9567-a7453642935b HTTP/1.1

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 610
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}

{
  "console": 2001,
  "ethernet_adapters": 2,
  "iourc_path": null,
  "ll_keepalives": false,
  "md5sum": null,
  "name": "PC TEST 1",
  "nvram": 128,
  "path": "iou.bin",
  "private_config": null,
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 256,
  "serial_adapters": 2,
  "startup_config": null,
  "use_default_iou_values": true,
  "vm_directory": "/var/folders/3s/r2wbv07n7wg4vrns874lmxxh0000gn/T/tmp2yt9sd11/a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "vm_id": "82f6e25c-6960-421d-9567-a7453642935b"
}
```

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/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/6438493a-152d-4cb0-b8d2-fcfef16bf540'
PUT /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/6438493a-152d-4cb0-b8d2-fcfef16bf540 HTTP/1.1
{
  "console": 2002,
  "ethernet_adapters": 4,
  "iourc_content": "test",
  "ll_keepalives": true,
  "name": "test",
  "nvram": 2048,
  "ram": 512,
  "serial_adapters": 0,
  "startup_config_content": "hostname test",
  "use_default_iou_values": true
}

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 685
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}

{
  "console": 2002,
  "ethernet_adapters": 4,
```

```
{
  "iourc_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpyrljan4a/iourc",
  "ll_keepalives": true,
  "md5sum": null,
  "name": "test",
  "nvram": 2048,
  "path": "iou.bin",
  "private_config": null,
  "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 512,
  "serial_adapters": 0,
  "startup_config": "startup-config.cfg",
  "use_default_iou_values": true,
  "vm_directory": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmp2yt9sd1l/ale920ca-338a-4e9f-b363-aa607b09dd80",
  "vm_id": "6438493a-152d-4cb0-b8d2-fcfe1f6bf540"
}
```

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/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/0813062d-a796-44ef-a5ed-e690c633012a'
DELETE /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/0813062d-a796-44ef-a5ed-e690c633012a

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}
```

8.6.5 /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

- **adapter_number**: Network adapter where the nio is located
- **port_number**: Port where the nio should be added
- **project_id**: UUID for the project
- **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/iou/vms/eea49ce-e25b-4beb-b50f-fcd77241a97b/adapters/1/ports/1/nio'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/eea49ce-e25b-4beb-b50f-fcd77241a97b/adapters/1/ports/1/nio
{
  "ethernet_device": "bridge0",
  "type": "nio_generic_ethernet"
}

HTTP/1.1 201
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 72
CONTENT-TYPE: application/json
```

```
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}
{
  "ethernet_device": "bridge0",
  "type": "nio_generic_ethernet"
}
```

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

Remove a NIO from a IOU instance

Parameters

- **adapter_number**: Network adapter where the nio is located
- **port_number**: Port from where the nio should be removed
- **project_id**: UUID for the project
- **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/iou/vms/8759140f-eb6f-4f3b-9a7f-86c79ec747b9'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/8759140f-eb6f-4f3b-9a7f-86c79ec747b9/nio

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}/nio
```

8.6.6 /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+}/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

- **adapter_number**: Adapter to start a packet capture
- **port_number**: Port on the adapter
- **project_id**: UUID for the project
- **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/14a4f240-54e7-47f7-b9e7-3640528415fe/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/14a4f240-54e7-47f7-b9e7-3640528415fe/adapters/1/ports/1/start_capture'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/14a4f240-54e7-47f7-b9e7-3640528415fe/adapters/1/ports/1/start_capture
{
  "capture_file_name": "test.pcap",
  "data_link_type": "DLT_EN10MB"
}

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 158
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
```

```
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/tmp2yt9sd1l/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/992e1579-2232-4aac-93ef-970c3bb67966/ports/{port_number:\d+}/adapters/{adapter_number:\d+}/pcap_files/{port_number:\d+}.pcap"
}
```

8.6.7 /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

- **adapter_number**: Adapter to stop a packet capture
- **port_number**: Port on the adapter (always 0)
- **project_id**: UUID for the project
- **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/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/992e1579-2232-4aac-93ef-970c3bb67966/ports/0/adapters/0/stop_capture'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/992e1579-2232-4aac-93ef-970c3bb67966/ports/0/adapters/0/stop_capture
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
```



```

CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}

```

8.6.8 /v1/projects/{project_id}/iou/vms/{vm_id}/configs

Contents

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

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

Sample session

```

curl -i -X GET 'http://localhost:8000/v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/9ff2d283-1365-4422-93e7-e14c56b809cb/configs'

GET /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/9ff2d283-1365-4422-93e7-e14c56b809cb/configs

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 40
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/configs

{
  "startup_config_content": "TEST"
}

```

8.6.9 /v1/projects/{project_id}/iou/vms/{vm_id}/configs/save

Contents

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

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

8.6.10 /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/7f23517b-b45e-4e7b-b908-c501c36abe16/'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/7f23517b-b45e-4e7b-b908-c501c36abe16/
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/reload
```

8.6.11 /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*
 - * *Input*
 - * *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

Input

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/2923f599-894a-4b18-a9eb-17a389298f84/'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/2923f599-894a-4b18-a9eb-17a389298f84/
{
  "iourc_content": "test"
}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/start
```

8.6.12 /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/ff05b41f-cd2b-4b33-90be-9362430b68ae/'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/iou/vms/ff05b41f-cd2b-4b33-90be-9362430b68ae/
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/iou/vms/{vm_id}/stop
```

8.7 Network

8.7.1 /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
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 1012
CONTENT-TYPE: application/json
```

```
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/interfaces
```

```
[
  {
    "id": "bridge0",
    "ip_address": "",
    "name": "bridge0"
  },
  {
    "id": "en0",
    "ip_address": "",
    "name": "en0"
  },
  {
    "id": "en1",
    "ip_address": "192.168.84.114",
    "name": "en1"
  },
  {
    "id": "en2",
    "ip_address": "",
    "name": "en2"
  },
  {
    "id": "fw0",
    "ip_address": "",
    "name": "fw0"
  },
  {
    "id": "lo0",
    "ip_address": "127.0.0.1",
    "name": "lo0"
  },
  {
    "id": "p2p0",
    "ip_address": "",
    "name": "p2p0"
  },
  {
    "id": "vboxnet0",
    "ip_address": "172.16.43.1",
    "name": "vboxnet0"
  },
  {
    "id": "vboxnet1",
    "ip_address": "192.168.59.3",
    "name": "vboxnet1"
  },
  {
    "id": "vboxnet2",
    "ip_address": "",
    "name": "vboxnet2"
  },
  {
    "id": "vboxnet3",
    "ip_address": "192.168.99.1",
```

```

    "name": "vboxnet3"
  }
]

```

8.7.2 /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
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 25
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/ports/udp

{
  "udp_port": 10000
}

```

8.8 Project

8.8.1 /v1/projects

Contents

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

GET /v1/projects

List projects opened on the server

Response status codes

- **200:** Project list

Sample session

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

GET /v1/projects HTTP/1.1

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 656
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects

[
  {
    "location": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpmwnekqxo",
    "name": "test",
    "path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpmwnekqxo/00010203-0405-0607-0809-0a0b0c0d0e0b",
    "project_id": "00010203-0405-0607-0809-0a0b0c0d0e0b",
    "temporary": false
  },
  {
    "location": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpmwnekqxo",
```



```

        "name": "test",
        "path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpmwnekqxo/00010203-0405-0607-0809-0a0b0c0d0e0f",
        "project_id": "00010203-0405-0607-0809-0a0b0c0d0e0f",
        "temporary": false
    }
]

```

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
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 297
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects

{
    "location": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpp319gdgn",
    "name": "test",
    "path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpp319gdgn/054e6ecb-1e9d-4c74-ad08-1209264bd96d",
    "project_id": "054e6ecb-1e9d-4c74-ad08-1209264bd96d",
    "temporary": false
}

```

8.8.2 /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  
ACCESS-CONTROL-ALLOW-ORIGIN: *  
CONNECTION: keep-alive  
CONTENT-LENGTH: 297  
CONTENT-TYPE: application/json  
DATE: Thu, 08 Jan 2015 16:09:15 GMT  
SERVER: Python/3.5 GNS3/1.4.0dev13
```

```
X-ROUTE: /v1/projects/{project_id}

{
  "location": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpchvw88rg",
  "name": "test",
  "path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpchvw88rg/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/9d7dccbb-0fc0-40d0-9420-912733dcbf74' -d '{"name": "second_name"}'

PUT /v1/projects/9d7dccbb-0fc0-40d0-9420-912733dcbf74 HTTP/1.1
{
  "name": "second_name",
  "path": "/private/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/pytest-of-noplay/pytest-110/test"
}

HTTP/1.1 403
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 100
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
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
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}
```

8.8.3 /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
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/close
```

8.8.4 /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/ale920ca-338a-4e9f-b363-aa607b09dd80/commit' -d {}

POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/commit HTTP/1.1
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/commit
```

8.8.5 /v1/projects/{project_id}/files

Contents

- */v1/projects/{project_id}/files*
 - *GET /v1/projects/{project_id}/files*
 - * *Parameters*
 - * *Response status codes*
 - * *Sample session*

GET /v1/projects/{project_id}/files

List files of a project

Parameters

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

Response status codes

- **200:** Return list of files
- **404:** The project doesn't exist

Sample session

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

GET /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/files HTTP/1.1
```

```

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 204
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/files

[
  {
    "md5sum": "ad0234829205b9033196ba818f7a872b",
    "path": "test.txt"
  },
  {
    "md5sum": "098f6bcd4621d373cade4e832627b4f6",
    "path": "vm-1/dynamips/test.bin"
  }
]

```

8.8.6 /v1/projects/{project_id}/files/{path:.*}

Contents

- `/v1/projects/{project_id}/files/{path:.*}`
 - `GET /v1/projects/{project_id}/files/{path:.*}`
 - * *Parameters*
 - * *Response status codes*

GET /v1/projects/{project_id}/files/{path:.*}

Get a file of a project

Parameters

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

Response status codes

- **200**: Return the file
- **403**: Permission denied
- **404**: The file doesn't exist

8.8.7 /v1/projects/{project_id}/notifications

Contents

- */v1/projects/{project_id}/notifications*
 - *GET /v1/projects/{**project_id**}/notifications*
 - * *Parameters*
 - * *Response status codes*

GET /v1/projects/{project_id}/notifications

Receive notifications about the projects

Parameters

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

Response status codes

- **200**: End of stream
- **404**: The project doesn't exist

8.9 Qemu

8.9.1 /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 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/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms' -d
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms HTTP/1.1
{
  "hda_disk_image": "linux.img",
  "name": "PC TEST 1",
  "qemu_path": "/var/folders/3s/r2wbv07n7wg4vrns874lmxxh0000gn/T/tmph3pfurip/qemu-system-x86_64",
  "ram": 1024
}

HTTP/1.1 201
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 1363
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms

{
  "acpi_shutdown": false,
  "adapter_type": "e1000",
  "adapters": 1,
  "boot_priority": "c",
  "cdrom_image": "",
  "cdrom_image_md5sum": null,
  "console": 2001,
  "console_type": "telnet",
  "cpu_throttling": 0,
  "cpus": 1,
  "hda_disk_image": "linux.img",
  "hda_disk_image_md5sum": null,
  "hda_disk_interface": "ide",
  "hdb_disk_image": "",
  "hdb_disk_image_md5sum": null,
  "hdb_disk_interface": "ide",
  "hdc_disk_image": "",
  "hdc_disk_image_md5sum": null,
  "hdc_disk_interface": "ide",
  "hdd_disk_image": "",
  "hdd_disk_image_md5sum": null,
```

```
{
  "hdd_disk_interface": "ide",
  "initrd": "",
  "initrd_md5sum": null,
  "kernel_command_line": "",
  "kernel_image": "",
  "kernel_image_md5sum": null,
  "legacy_networking": false,
  "mac_address": "00:00:ab:50:58:00",
  "name": "PC TEST 1",
  "options": "",
  "platform": "x86_64",
  "process_priority": "low",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "qemu_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmp3p3furip/qemu-system-x86_64",
  "ram": 1024,
  "usage": "",
  "vm_directory": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpqqnauky9/a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "vm_id": "b949f2e2-d338-4b51-aea9-270196ed5058"
}
```

8.9.2 /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 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/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/84777300-eef4-4a3a-9135-d7009bdb0722'
GET /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/84777300-eef4-4a3a-9135-d7009bdb0722 HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 1353
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}

{
  "acpi_shutdown": false,
  "adapter_type": "e1000",
  "adapters": 1,
  "boot_priority": "c",
  "cdrom_image": "",
  "cdrom_image_md5sum": null,
  "console": 2001,
  "console_type": "telnet",
  "cpu_throttling": 0,
  "cpus": 1,
  "hda_disk_image": "",
  "hda_disk_image_md5sum": null,
  "hda_disk_interface": "ide",
  "hdb_disk_image": "",
  "hdb_disk_image_md5sum": null,
  "hdb_disk_interface": "ide",
  "hdc_disk_image": "",
  "hdc_disk_image_md5sum": null,
  "hdc_disk_interface": "ide",
  "hdd_disk_image": "",
  "hdd_disk_image_md5sum": null,
  "hdd_disk_interface": "ide",
  "initrd": "",
  "initrd_md5sum": null,
  "kernel_command_line": "",
  "kernel_image": "",
  "kernel_image_md5sum": null,
  "legacy_networking": false,
  "mac_address": "00:00:ab:07:22:00",
```

```
{
  "name": "PC TEST 1",
  "options": "",
  "platform": "x86_64",
  "process_priority": "low",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "qemu_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmp3p3furip/qemu-system-x86_64",
  "ram": 256,
  "usage": "",
  "vm_directory": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpqqnauky9/a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "vm_id": "84777300-eef4-4a3a-9135-d7009bdb0722"
}
```

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

Update a Qemu 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/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/578b6391-e461-4f17-86f6-dd556d2f4dde'
PUT /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/578b6391-e461-4f17-86f6-dd556d2f4dde HTTP/1.1 200
{
  "console": 2002,
  "hdb_disk_image": "linux.img",
  "name": "test",
  "ram": 1024
}

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 1358
```

```

CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}

{
  "acpi_shutdown": false,
  "adapter_type": "e1000",
  "adapters": 1,
  "boot_priority": "c",
  "cdrom_image": "",
  "cdrom_image_md5sum": null,
  "console": 2002,
  "console_type": "telnet",
  "cpu_throttling": 0,
  "cpus": 1,
  "hda_disk_image": "",
  "hda_disk_image_md5sum": null,
  "hda_disk_interface": "ide",
  "hdb_disk_image": "linux.img",
  "hdb_disk_image_md5sum": null,
  "hdb_disk_interface": "ide",
  "hdc_disk_image": "",
  "hdc_disk_image_md5sum": null,
  "hdc_disk_interface": "ide",
  "hdd_disk_image": "",
  "hdd_disk_image_md5sum": null,
  "hdd_disk_interface": "ide",
  "initrd": "",
  "initrd_md5sum": null,
  "kernel_command_line": "",
  "kernel_image": "",
  "kernel_image_md5sum": null,
  "legacy_networking": false,
  "mac_address": "00:00:ab:4d:de:00",
  "name": "test",
  "options": "",
  "platform": "x86_64",
  "process_priority": "low",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "qemu_path": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmp3p3furip/qemu-system-x86_64",
  "ram": 1024,
  "usage": "",
  "vm_directory": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpqqnauky9/a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "vm_id": "578b6391-e461-4f17-86f6-dd556d2f4dde"
}

```

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

Delete a Qemu 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

Sample session

```
curl -i -X DELETE 'http://localhost:8000/v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/1b1a72b7-97ea-4598-8c02-2edc285f7990'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/1b1a72b7-97ea-4598-8c02-2edc285f7990

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}
```

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

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 VM instance

Parameters

- **adapter_number:** Network adapter where the nio is located
- **port_number:** Port on the adapter (always 0)
- **project_id:** UUID for the project
- **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/82435d91-3cb5-4a44-abff-34a4ae46b24f'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/82435d91-3cb5-4a44-abff-34a4ae46b24f/
{
  "ethernet_device": "eth0",
  "type": "nio_generic_ethernet"
}

HTTP/1.1 409
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 89
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio
{
  "message": "NIO of type nio_generic_ethernet is not supported",
  "status": 409
}
```

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

Remove a NIO from a Qemu VM instance

Parameters

- **adapter_number:** Network adapter where the nio is located
- **port_number:** Port on the adapter (always 0)
- **project_id:** UUID for the project
- **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/b5c23125-ea22-4008-a89e-72565ae9f770'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/b5c23125-ea22-4008-a89e-72565ae9f770

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}
```

8.9.4 /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 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/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/3275bdce-9b75-445f-8168-0103cd524182/'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/3275bdce-9b75-445f-8168-0103cd524182/
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/reload
```

8.9.5 /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 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/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/2d03502f-6b3f-4551-b924-b74fd5d6cdf5/'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/2d03502f-6b3f-4551-b924-b74fd5d6cdf5/
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/reload
```

```
HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/resume
```

8.9.6 /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 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/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/04afa03a-3d9b-4aa7-945f-8f3077b6790e'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/04afa03a-3d9b-4aa7-945f-8f3077b6790e
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
```

```
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/start
```

8.9.7 /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 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/qemu/vms/f5bfbadc-9a09-4090-a624-89be68858746'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/f5bfbadc-9a09-4090-a624-89be68858746
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/stop
```

8.9.8 /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 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/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/bb00b1e0-f19d-4ce8-b99a-82c1518fa33e'
POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/qemu/vms/bb00b1e0-f19d-4ce8-b99a-82c1518fa33e/
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/qemu/vms/{vm_id}/suspend
```

8.9.9 /v1/qemu/binaries

Contents

- */v1/qemu/binaries*
 - *GET /v1/qemu/binaries*
 - * *Response status codes*
 - * *Input*
 - * *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

Input**Sample session**

```
curl -i -X GET 'http://localhost:8000/v1/qemu/binaries' -d '{"archs": ["i386"]}'

GET /v1/qemu/binaries HTTP/1.1
{
  "archs": [
    "i386"
  ]
}

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 212
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/qemu/binaries

[
  {
    "path": "/tmp/x86_64",
    "version": "2.2.0"
  },
  {
    "path": "/tmp/alpha",
    "version": "2.1.0"
  },
  {

```

```
    "path": "/tmp/i386",
    "version": "2.1.0"
  }
]
```

8.9.10 /v1/qemu/capabilities

Contents

- */v1/qemu/capabilities*
 - *GET /v1/qemu/capabilities*
 - * *Response status codes*
 - * *Output*
 - * *Sample session*

GET /v1/qemu/capabilities

Get a list of Qemu capabilities on this server

Response status codes

- **200:** Success

Output

Sample session

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

GET /v1/qemu/capabilities HTTP/1.1

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 39
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/qemu/capabilities

{
  "kvm": [
    "x86_64"
  ]
}
```

8.9.11 /v1/qemu/img

Contents

- */v1/qemu/img*
 - *POST /v1/qemu/img*
 - * *Response status codes*
 - * *Input*
 - * *Sample session*

POST /v1/qemu/img

Create a Qemu image

Response status codes

- **201**: Image created

Input

Sample session

```
curl -i -X POST 'http://localhost:8000/v1/qemu/img' -d '{"cluster_size": 64, "format": "qcow2", "lazy_refcounts": "off", "path": "/tmp/hda.qcow2", "preallocation": "metadata", "qemu_img": "/tmp/qemu-img", "refcount_bits": 12, "size": 100}'

POST /v1/qemu/img HTTP/1.1
{
  "cluster_size": 64,
  "format": "qcow2",
  "lazy_refcounts": "off",
  "path": "/tmp/hda.qcow2",
  "preallocation": "metadata",
  "qemu_img": "/tmp/qemu-img",
  "refcount_bits": 12,
  "size": 100
}

HTTP/1.1 201
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/qemu/img
```

8.9.12 /v1/qemu/img-binaries

Contents

- */v1/qemu/img-binaries*
 - *GET /v1/qemu/img-binaries*
 - * *Response status codes*

GET /v1/qemu/img-binaries

Get a list of available Qemu-img binaries

Response status codes

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

8.9.13 /v1/qemu/vms**Contents**

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

GET /v1/qemu/vms

Retrieve the list of Qemu images

Response status codes

- **200:** List of Qemu images retrieved

8.9.14 /v1/qemu/vms/{path:..+}**Contents**

- */v1/qemu/vms/{path:..+}*
 - *POST /v1/qemu/vms/{path:..+}*
 - * *Response status codes*

POST /v1/qemu/vms/{path:..+}

Upload Qemu image.

Response status codes

- **204:** Image uploaded

8.10 Server

8.10.1 /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

8.11 Version

8.11.1 /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
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 50
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/version
```

```
{
  "local": true,
  "version": "1.4.0dev13"
}
```

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": "1.4.0dev13"}'
```

```
POST /v1/version HTTP/1.1
```

```
{
  "version": "1.4.0dev13"
}
```

```

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 31
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/version

{
  "version": "1.4.0dev13"
}

```

8.12 Virtualbox

8.12.1 /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
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 409
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms

{
  "acpi_shutdown": false,
  "adapter_type": "Intel PRO/1000 MT Desktop (82540EM)",
  "adapters": 0,
  "console": 2001,
  "enable_remote_console": false,
  "headless": false,
  "name": "VM1",
  "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 0,
  "use_any_adapter": false,
  "vm_directory": null,
  "vm_id": "39cc5964-d0be-487b-9f0c-8fbea600e452",
  "vmname": "VM1"
}
```

8.12.2 /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/63b9b470-5a07-4cfe-b9d5-ae5d5511'

GET /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/63b9b470-5a07-4cfe-b9d5-ae5d5511

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 415
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
```

```
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}

{
  "acpi_shutdown": false,
  "adapter_type": "Intel PRO/1000 MT Desktop (82540EM)",
  "adapters": 0,
  "console": 2002,
  "enable_remote_console": false,
  "headless": false,
  "name": "VMTEST",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 0,
  "use_any_adapter": false,
  "vm_directory": null,
  "vm_id": "63b9b470-5a07-4cfe-b9d5-ae5d5518b988",
  "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/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/aa45d68c-c68e-4296-9550-641b522a'
PUT /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/aa45d68c-c68e-4296-9550-641b522a
{
  "console": 2011,
  "name": "test"
}
```

```

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 413
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}

{
  "acpi_shutdown": false,
  "adapter_type": "Intel PRO/1000 MT Desktop (82540EM)",
  "adapters": 0,
  "console": 2011,
  "enable_remote_console": false,
  "headless": false,
  "name": "test",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "ram": 0,
  "use_any_adapter": false,
  "vm_directory": null,
  "vm_id": "aa45d68c-c68e-4296-9550-641b522a73c2",
  "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

8.12.3 /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+}/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

- **adapter_number**: Adapter where the nio should be added
- **port_number**: Port on the adapter (always 0)
- **project_id**: UUID for the project
- **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/virtualbox/vms/556aba72-c19a-4fc3-a350-945479200000/adapters/0/ports/0/nio'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/556aba72-c19a-4fc3-a350-945479200000/adapters/0/ports/0/nio
{
  "lport": 4242,
  "rhost": "127.0.0.1",
  "rport": 4343,
  "type": "nio_udp"
}

HTTP/1.1 201
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 89
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
```



```

SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}/nio/{nio_id}

{
  "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/{nio_id}

Remove a NIO from a VirtualBox VM instance

Parameters

- **adapter_number:** Adapter from where the nio should be removed
- **port_number:** Port on the adapter (always 0)
- **project_id:** UUID for the project
- **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/3f79083e-3da8-433e-9e9b-fe72a0e9bfe72a/adapters/0/ports/0/nio/1'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/3f79083e-3da8-433e-9e9b-fe72a0e9bfe72a/adapters/0/ports/0/nio/1

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number:\d+}/nio/{nio_id}

```

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

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

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

Response status codes

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

Input**8.12.5 /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

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

Response status codes

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

8.12.6 /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/1a517572-9b86-441a-8347-1d28b0000000/reload'

POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/1a517572-9b86-441a-8347-1d28b0000000/reload
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/reload
```

8.12.7 /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/7f5648e4-0ce8-49b3-b470-f2b821a00000/reload'

POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/7f5648e4-0ce8-49b3-b470-f2b821a00000/reload
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/reload
```

```

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/resume

```

8.12.8 /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/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/ee1fef8f-cbe1-4590-8c47-fbd12f'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/ee1fef8f-cbe1-4590-8c47-fbd12f
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT

```

```
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/start
```

8.12.9 /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/5e8543c3-45a7-4668-824f-01eaebe10000'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/5e8543c3-45a7-4668-824f-01eaebe10000
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/stop
```

8.12.10 /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/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/95f620da-c0e5-4404-81fc-10f3e1800000/suspend'
POST /v1/projects/ale920ca-338a-4e9f-b363-aa607b09dd80/virtualbox/vms/95f620da-c0e5-4404-81fc-10f3e1800000/suspend
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/virtualbox/vms/{vm_id}/suspend
```

8.12.11 /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

8.13 VMware

8.13.1 /v1/projects/{project_id}/vmware/vms

Contents

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

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

Create a new VMware VM instance

Parameters

- **project_id**: UUID for the project

Response status codes

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

Input

Output

8.13.2 /v1/projects/{project_id}/vmware/vms/{vm_id}

Contents

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

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

Get a VMware 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}/vmware/vms/{vm_id}

Update a VMware 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}/vmware/vms/{vm_id}

Delete a VMware 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

8.13.3 /v1/projects/{project_id}/vmware/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port

Contents

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

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

Add a NIO to a VMware VM instance

Parameters

- **adapter_number**: Adapter where the nio should be added
- **port_number**: Port on the adapter (always 0)
- **project_id**: UUID for the project
- **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}/vmware/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/nio

Remove a NIO from a VMware VM instance

Parameters

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

Response status codes

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

8.13.4 /v1/projects/{project_id}/vmware/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port

Contents

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

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

Start a packet capture on a VMware VM instance

Parameters

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

Response status codes

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

Input**8.13.5 /v1/projects/{project_id}/vmware/vms/{vm_id}/adapters/{adapter_number:d+}/ports/{port_number:d+}/stop_capture****Contents**

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

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

Stop a packet capture on a VMware VM instance

Parameters

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

Response status codes

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

8.13.6 /v1/projects/{project_id}/vmware/vms/{vm_id}/interfaces/vmnet

Contents

- */v1/projects/{project_id}/vmware/vms/{vm_id}/interfaces/vmnet*
 - *POST /v1/projects/{project_id}/vmware/vms/{vm_id}/interfaces/vmnet*
 - * *Parameters*
 - * *Response status codes*

POST /v1/projects/{project_id}/vmware/vms/{vm_id}/interfaces/vmnet

Allocate a VMware VMnet interface on the server

Parameters

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

Response status codes

- **201**: VMnet interface allocated

8.13.7 /v1/projects/{project_id}/vmware/vms/{vm_id}/reload

Contents

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

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

Reload a VMware 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

8.13.8 /v1/projects/{project_id}/vmware/vms/{vm_id}/resume

Contents

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

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

Resume a suspended VMware 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

8.13.9 /v1/projects/{project_id}/vmware/vms/{vm_id}/start

Contents

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

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

Start a VMware 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

8.13.10 /v1/projects/{project_id}/vmware/vms/{vm_id}/stop

Contents

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

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

Stop a VMware 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

8.13.11 /v1/projects/{project_id}/vmware/vms/{vm_id}/suspend**Contents**

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

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

Suspend a VMware 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

8.13.12 /v1/vmware/vms**Contents**

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

GET /v1/vmware/vms

Get all VMware VMs available

Response status codes

- **200:** Success

8.14 Vpcs

8.14.1 /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/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms' -d
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms HTTP/1.1
{
  "name": "PC TEST 1"
}
```

```
HTTP/1.1 201
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 422
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/vpcs/vms

{
  "console": 2010,
  "name": "PC TEST 1",
  "project_id": "ale920ca-338a-4e9f-b363-aa607b09dd80",
  "startup_script": null,
  "startup_script_path": null,
  "status": "stopped",
  "vm_directory": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpqqnauky9/ale920ca-338a-4e9f-b363-aa607b09dd80",
  "vm_id": "d1808514-893b-4aa5-86c2-c4dea88ff895"
}
```

8.14.2 /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/7e24fcc2-e38c-43e8-a7bb-fc22d7b91547'
GET /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/7e24fcc2-e38c-43e8-a7bb-fc22d7b91547 HTTP/1.1
Host: localhost:8000

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 422
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}

{
  "console": 2010,
  "name": "PC TEST 1",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "startup_script": null,
  "startup_script_path": null,
  "status": "stopped",
  "vm_directory": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpqqnauky9/a1e920ca-338a-4e9f-b363-aa607b09dd80/vm",
  "vm_id": "7e24fcc2-e38c-43e8-a7bb-fc22d7b91547"
}
```

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/608a4cd0-476c-40ba-95db-0c81effc8e9c'
PUT /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/608a4cd0-476c-40ba-95db-0c81effc8e9c HTTP/1.1 200
{
  "console": 2012,
  "name": "test",
  "startup_script": "ip 192.168.1.1"
}

HTTP/1.1 200
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 438
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}

{
  "console": 2012,
  "name": "test",
  "project_id": "a1e920ca-338a-4e9f-b363-aa607b09dd80",
  "startup_script": "ip 192.168.1.1",
  "startup_script_path": "startup.vpc",
  "status": "stopped",
  "vm_directory": "/var/folders/3s/r2wbv07n7wg4vrsn874lmxxh0000gn/T/tmpqqnauky9/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/608a4cd0-476c-40ba-95db-0c81effc8e9c",
  "vm_id": "608a4cd0-476c-40ba-95db-0c81effc8e9c"
}
```

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/6f9f4ab8-1b77-4eee-b0fb-e8d299b843a3'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/6f9f4ab8-1b77-4eee-b0fb-e8d299b843a3

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}
```

8.14.3 /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

- **adapter_number:** Network adapter where the nio is located
- **port_number:** Port where the nio should be added
- **project_id:** UUID for the project
- **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/fbf2e4d7-d60e-4e03-95bc-1bd53b74689a/nio'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/fbf2e4d7-d60e-4e03-95bc-1bd53b74689a/nio
{
  "lport": 4242,
  "rhost": "127.0.0.1",
  "rport": 4343,
  "type": "nio_udp"
}

HTTP/1.1 201
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 89
CONTENT-TYPE: application/json
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
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

- **adapter_number**: Network adapter where the nio is located
- **port_number**: Port from where the nio should be removed
- **project_id**: UUID for the project
- **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/6666f3a7-d805-4572-a35c-bc15213f0b5b'

DELETE /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/6666f3a7-d805-4572-a35c-bc15213f0b5b

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}/adapters/{adapter_number:\d+}/ports/{port_number}
```

8.14.4 /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/1a1b95de-cc91-4a90-870b-5c7c8965eb5d'

POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/1a1b95de-cc91-4a90-870b-5c7c8965eb5d
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}/reload
```

8.14.5 /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/184c6dcc-a8fd-4cc9-b333-86cc24f2e98e'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/184c6dcc-a8fd-4cc9-b333-86cc24f2e98e
{}

HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}/start
```

8.14.6 /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/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/bc34aac0-6c5e-4b91-b2ea-47b76d4b26f1'
POST /v1/projects/a1e920ca-338a-4e9f-b363-aa607b09dd80/vpcs/vms/bc34aac0-6c5e-4b91-b2ea-47b76d4b26f1
{}

```

```
HTTP/1.1 204
ACCESS-CONTROL-ALLOW-ORIGIN: *
CONNECTION: keep-alive
CONTENT-LENGTH: 0
DATE: Thu, 08 Jan 2015 16:09:15 GMT
SERVER: Python/3.5 GNS3/1.4.0dev13
X-ROUTE: /v1/projects/{project_id}/vpcs/vms/{vm_id}/stop
```