

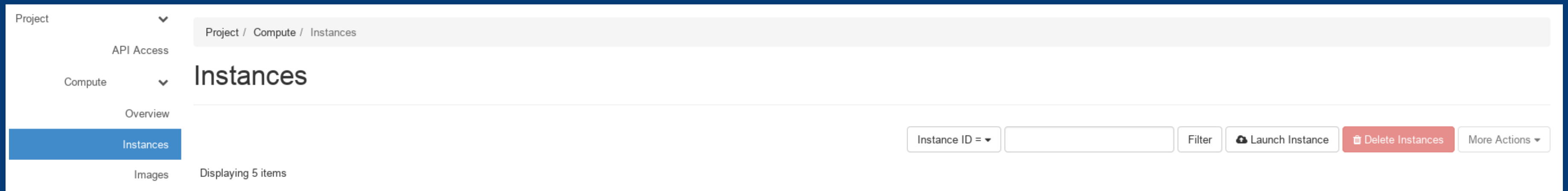
# OpenStack Introduction

# How to use OpenStack

- Go to <https://julia.uni-wuerzburg.de>
- Use your JMU account credentials
- Use domain: julia

# Launch Virtual Machines

- Just go to: Project -> Compute -> Instances
- Click “Launch Instance”



The screenshot shows the Google Cloud Platform console interface. On the left, a navigation menu includes 'Project', 'API Access', 'Compute', 'Overview', 'Instances' (highlighted in blue), and 'Images'. The breadcrumb path at the top reads 'Project / Compute / Instances'. The main heading is 'Instances'. Below the heading, there is a search bar with 'Instance ID =' and a 'Filter' button. To the right of the search bar are three buttons: 'Launch Instance' (with a play icon), 'Delete Instances' (with a trash icon), and 'More Actions' (with a dropdown arrow). At the bottom left, it says 'Displaying 5 items'.

# Virtual Machine Setup

### Launch Instance

Please provide the initial hostname for the instance, the availability zone where it will be deployed, and the instance count. Increase the Count to create multiple instances with the same settings.

**Instance Name \*** Total Instances (No Limit)

**Availability Zone** 5 Current Usage

**Count \*** 1 Added

- Details \*
- Source \*
- Flavor \*
- Networks
- Network Ports
- Security Groups
- Key Pair
- Configuration
- Server Groups
- Scheduler Hints
- Metadata

✕ Cancel < Back Next > Launch Instance

# Options

Field	Meaning
Instance Name	Name of your VM
Count	How many virtual machines do you need?
Source	Which OS image (Debian/Ubuntu) do you want to use?
Flavor	Set CPU/Memory parameters for your VM
Key Pair	Manage your SSH public keys for SSH login on your VM

## Add an floating IP

- Add a floating IP to your server
- The floating IP network is routed inside of the university network
- For external access use your VPN access

## Access the virtual machine

- You can now login via SSH as debian or ubuntu standard user by using the floating IP address
- e.g. `ssh ubuntu@10.106.241.65`
- Use `sudo` for administrative rights to install software and configure your VM

## After your work is done

- Shutdown machine
- Create snapshot as a new image for later usage
- Delete unused or shutoff machines



# Questions

Feel free to send an email to [julia-support@uni-wuerzburg.de](mailto:julia-support@uni-wuerzburg.de)