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”
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
- Availability Zone: neva
- Count: 1

Total Instances (No Limit)
5 Current Usage
1 Added
# Options

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

Feel free to send an email to julia-support@uni-wuerzburg.de