OpenNebula Puppet Module

Norman Meßtorff, Operations Engineer @ Deutsche Post E-Post Development GmbH

- Develop & running our application
- Our deployment ecosystem: Puppet, Hiera & RPM
- started with different virtualization Tools on Dev & Prod
- 14 Teams, each ~70 VMs -> 980 VMs
- We have a „Wirtshaus“ 😊 as virtualization tool (yet)
- No suitable Puppet Module

not very DevOps style :-)

**Puppet Manifest:**
```yaml
onevnet { 'n-Public':
  ensure => 'present',
  type => 'ranged',
  bridge => 'vbr_n-public',
  vlanid => '42',
  phydev => 'bond0',
  network_address => '10.1.2.0',
  network_mask => '255.255.255.0',
  network_start => '10.1.2.50',
  network_end => '10.1.2.100',
}
```

**Hiera YAML:**
```yaml
one::vnets:
  n-Public:
    type: RANGED
    bridge: vbr_n-public
    vlan: 'yes'
    vlan_id: 42
    phydev: bond0
    net_address: 10.1.2.0
    net_mask: 255.255.255.0
    ip_start: 10.1.2.50
    ip_end: 10.1.2.100
    comment: Public network behind our external
```

**Hiera YAML:**
```yaml
one::head::hook_scripts:
  VM:
    dnsadd:
      state: 'CREATE'
      command: '/usr/share/one/hooks/on_prolog.py'
      arguments: '-i $ID -a add -k /var/lib/one/etc/opennebula_dns.key'
      remote: 'no'
    dnsdelete:
      state: 'DONE'
      command: '/usr/share/one/hooks/dnshooks/dnshook.py'
      arguments: '-i $ID -a delete -k /var/lib/one/etc/opennebula_dns.key'
      remote: 'no'
```
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<th>Basics:</th>
<th>ONE resources:</th>
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<td>• Database configuration</td>
<td>• hosts, cluster</td>
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<td>• LDAP Authentication</td>
<td>• datastores, images</td>
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<td>• Passenger yes/no?</td>
<td>• vnets, context files, vm’s</td>
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<th>Under the hood:</th>
<th>The future:</th>
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<td>• providers using CLI tools</td>
<td>• switch to real XML-RPC</td>
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<td>• supporting ONE 4.4</td>
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<td>• doing ONE upgrades</td>
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<td>• Integrate: FW, LB, Storage</td>
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</tbody>
</table>

[@nmesstorff](https://twitter.com/nmesstorff)

Norman Meßtorff ✖️
normes@normes.org