



Bundesministerium
für Wirtschaft
und Klimaschutz

dNation OpenStack Contributions



Big Thanks to



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dNation won following SCS (Sovereign Cloud Stack) tenders, some of them sponsored our **contributions to OpenStack**:

- SCS-VP06c Container Registry
- SCS-VP12 Health Monitoring
- SCS-VP04 Networking (involves SONiC)
- SCS-VP10 SCS certification (with Cloud&Heat GmbH)
- Involved in KaaS (Kubernetes as a Service)

dNation: d = Development | DevOps

- d = Development: Custom Software Development
- We are software developers
- Go, Python, Java, C++ and others
- d = DevOps: Cloud Services
- We are DevOps/Cloud engineers

- Our core technologies:



dNation is active supporter of Open Source

SCS: SCS Service Partner



OSBA: SCS Forum



ALASCA: Association for Operational,
Open Cloud Infrastructures e.V.



dNation is one of the ALASCA founding members

- Yaoook - Lifecycle Management Tool for OpenStack



How can I monitor my hybrid infrastructure using Open Source solution without any vendor lock-in?



Public



On-premise





dNation Monitoring: Our contribution to OSS



- Intuitive: Green, orange and red colors signaling whether your action is needed
- Relevant information only: Provides only metrics relevant for area of interest
- Hierarchical (drill-down): Details needed? Just click on it.
- Built-in monitoring for [SCS](#) and ALASCA (in progress)

20+ Built-in Dashboards



Red Hat Advanced Partner

- Red Hat Certified Specialist in OpenShift Administration
- 3 additional (non-technical) certifications

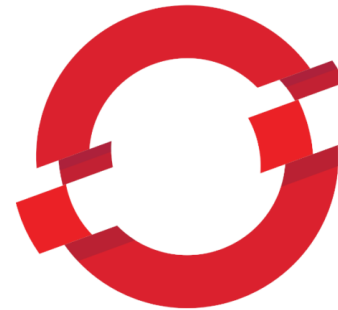


Advanced

Business Partner

Solution provider

Container platform specialist



OPENSIFT

dNation contribution to OpenStack

Use Encryption Everywhere



- OpenStack uses encryption when talking to outside world
- But OpenStack internal components do not use encryption
- It is an issue for security sensitive application

Solution: E2E Encryption between OpenStack Internal Components



- 20+ Kolla Ansible and Kolla projects contributions
- Simple settings
 - } `kolla_enable_tls_internal`
 - } `kolla_enable_tls_external`
 - } `kolla_enable_tls_backend`

=> Whole control plane will use encrypted communication via TLS

28 upstream OpenStack contributions

Service/Peer	Backend	Caching	Database	Messaging	Intra-service	Inter-service
Keystone						
Horizon						
Glance						
Cinder						
Placement						
Nova						
Neutron						
Heat						
Octavia						
CloudKitty						
Barbican						
Designate						
Ceilometer						
Gnocchi						
Ironic						
Skyline						
Manila						
Masakari						
OpenvSwitch						
Redis						
libvirt						
Memcached						
MariaDB						
RabbitMQ						
	Existing support		New contributions		Not relevant	



In [Kolla](#) and [Kolla Ansible](#) repositories

dNation contributes to SONiC



Software for Open Networking in the Cloud

References

Telecom Industry



Pharmacy Industry



Bank Industry



Ticket Sale Industry

