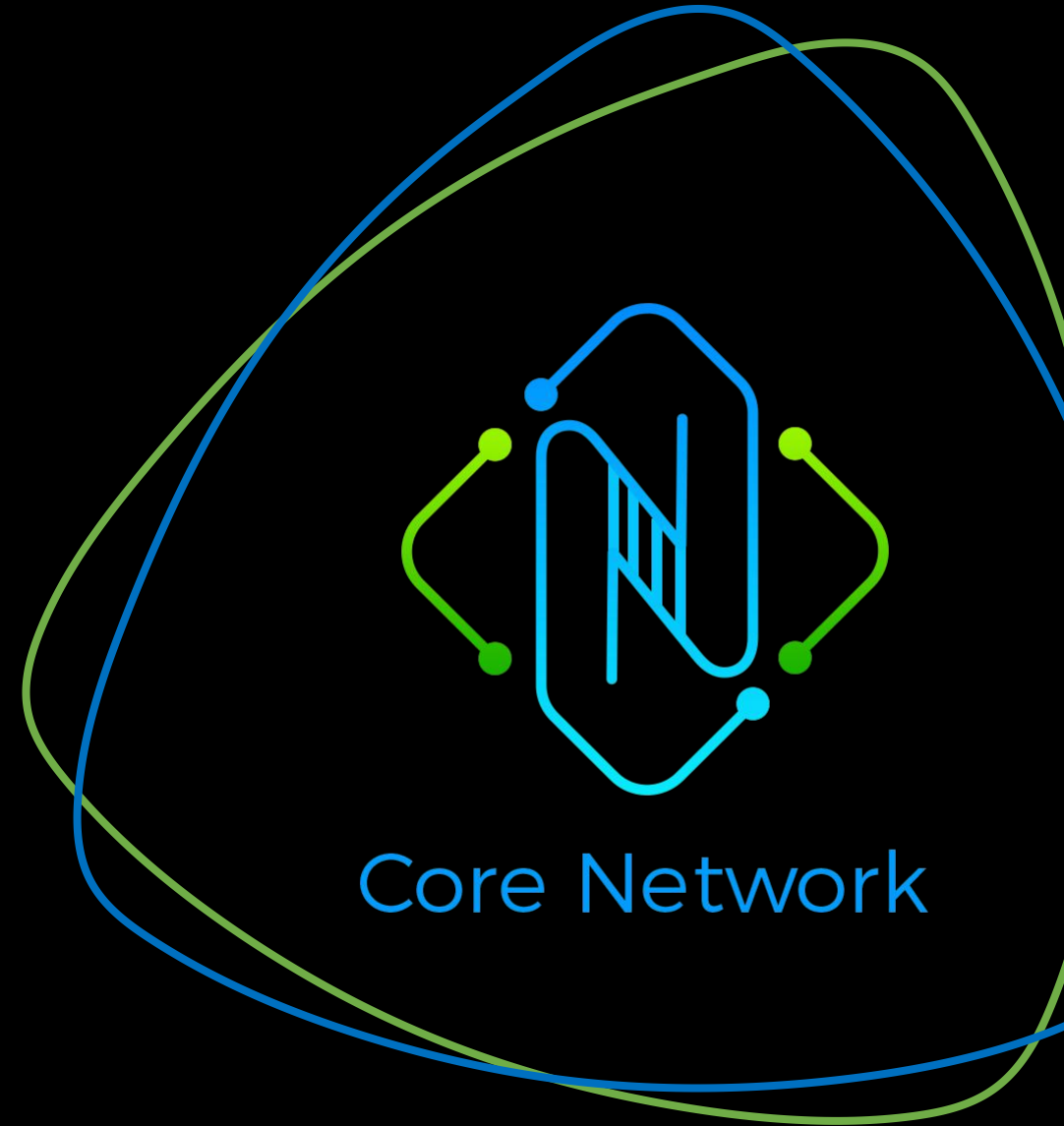


ONOS Monitoring

Zufar Dhiyaulhaq

<https://corenetworklab.com>

ON-ID Community Meetup 2018
Bukalapak Hall, Plaza City View



Core Network

ONOS

ONOS stands for Open Network Operating System. ONOS provides the control plane for a software-defined network (SDN), managing network components, such as switches and links, and running software programs or modules to provide communication services to end hosts and neighboring networks.

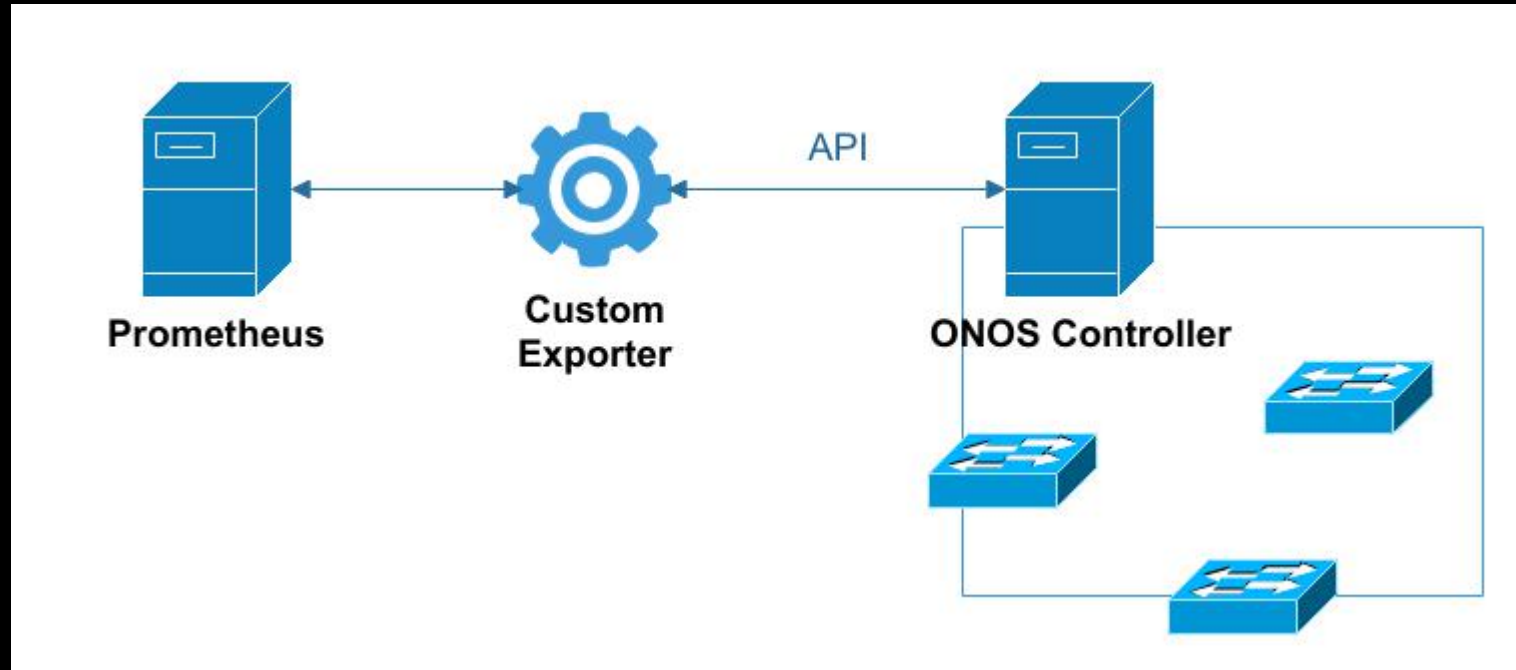


Prometheus

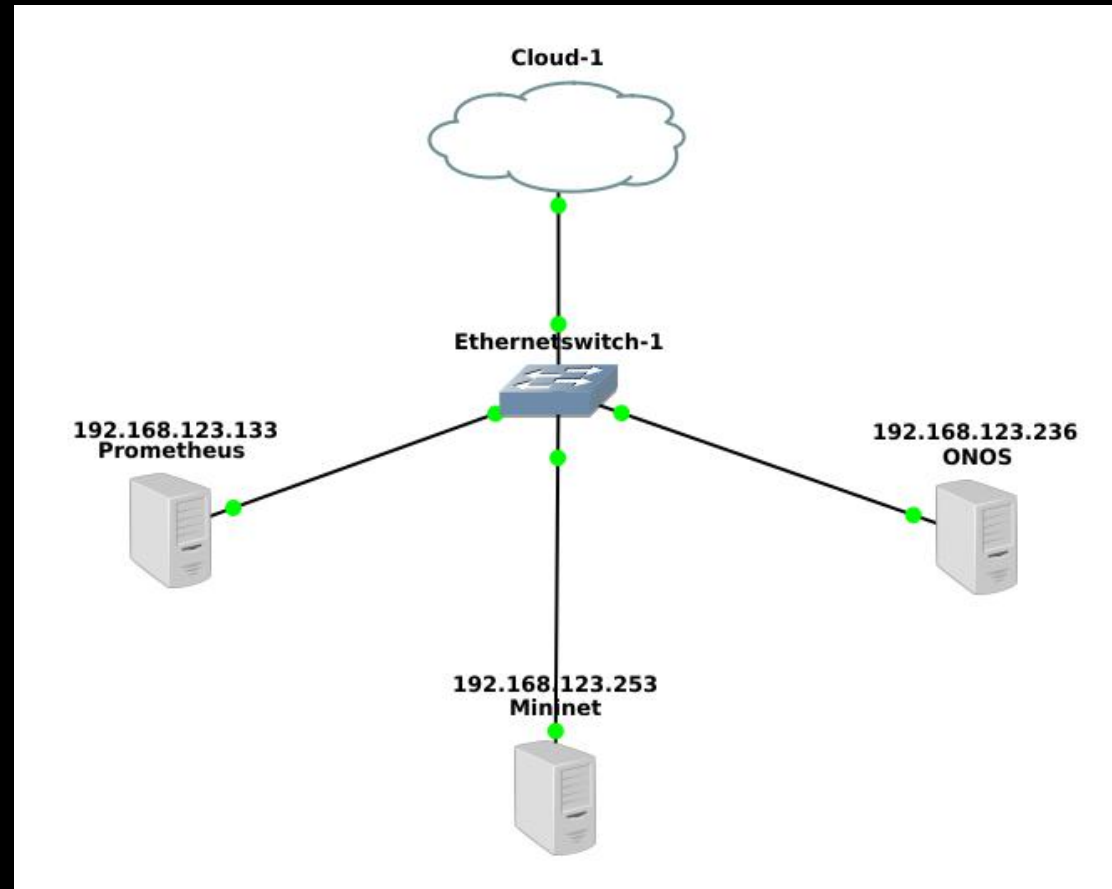
Prometheus is an open source, metrics-based monitoring system. Written in Go and licensed under the Apache 2.0. Its Graduated project under Cloud Native Computing Foundating (CNCF).



System



Topology



ONOS Topology



Custom Exporter

```
# HELP onos_device_packets_received packet received per seconds
# TYPE onos_device_packets_received gauge
onos_device_packets_received{node="of:0000000000000001",port="1"} 251230.0
onos_device_packets_received{node="of:0000000000000001",port="2"} 57543.0
onos_device_packets_received{node="of:0000000000000001",port="1"} 251230.0
onos_device_packets_received{node="of:0000000000000001",port="2"} 57543.0
onos_device_packets_received{node="of:0000000000000002",port="1"} 56830.0
onos_device_packets_received{node="of:0000000000000002",port="2"} 249179.0
onos_device_packets_received{node="of:0000000000000002",port="1"} 56830.0
onos_device_packets_received{node="of:0000000000000002",port="2"} 249179.0
onos_device_packets_received{node="of:0000000000000001",port="1"} 253346.0
onos_device_packets_received{node="of:0000000000000001",port="2"} 58071.0
onos_device_packets_received{node="of:0000000000000002",port="1"} 57871.0
onos_device_packets_received{node="of:0000000000000002",port="2"} 252506.0
# HELP onos_device_bytes_received bytes received per seconds
# TYPE onos_device_bytes_received gauge
onos_device_bytes_received{node="of:0000000000000001",port="1"} 14345159476.0
onos_device_bytes_received{node="of:0000000000000001",port="2"} 3797934.0
onos_device_bytes_received{node="of:0000000000000001",port="1"} 14345159476.0
onos_device_bytes_received{node="of:0000000000000001",port="2"} 3797934.0
onos_device_bytes_received{node="of:0000000000000002",port="1"} 3750780.0
onos_device_bytes_received{node="of:0000000000000002",port="2"} 14231138126.0
onos_device_bytes_received{node="of:0000000000000002",port="1"} 3750780.0
onos_device_bytes_received{node="of:0000000000000002",port="2"} 14231138126.0
onos_device_bytes_received{node="of:0000000000000001",port="1"} 14463571860.0
onos_device_bytes_received{node="of:0000000000000001",port="2"} 3832782.0
onos_device_bytes_received{node="of:0000000000000002",port="1"} 3819462.0
onos_device_bytes_received{node="of:0000000000000002",port="2"} 14416451268.0
# HELP onos_device_packets_sent packet sent per seconds
```

<https://github.com/zufardhiyaulhaq/onos-prometheus-exporter>

Prometheus Target

Prometheus Alerts Graph Status ▾ Help

Targets

All Unhealthy

sdn-network-1 (1/1 up) show less

Endpoint	State	Labels	Last Scrape	Error
http://192.168.123.236:9090/metrics	UP	instance="192.168.123.236:9090"	29.232s ago	

Grafana



LIMITED SEAT



NATIONAL SEMINAR SDN AND NFV SKILLS FOR TELECOM INDUSTRY 2020

EVENT

09.00 am - end
Saturday, November 17th 2018

VENUE

Bandung Techno Park
Bandung, West Java



Setyo Budi Agung

Senior Manager of Infrastructure Research and
Standardization Telkom Divisi Digital Service



Fryandi Ramada

Customer Solution Architect
Nokia Solutions Network



Aris Cahyadi Risdianto

Open Networking Foundation
Ambassadors



David Gunawan

Manager Lab Cloud & Node Platform
Telkom Divisi Digital Service



Nata Diredja

Business Development & Commercial Management
Nokia Software Business Group



Aditya Vhisnu

Chief Executive Officer
PT. Network Data Sistem

Sponsored by :



Supported by :



Registration

bit.ly/registCN

Contact

person

<https://corenetworklab.com>

WA : 082341470442 Line : alaurinattarii