

Tiny OpenStack Lab for ONAP

This page is a work-in-progress and details getting the ONAP Demo (or pieces of it) running on a bare metal OPNFV installation (OpenStack Newton) in a home office. Equipment used is an option for developers/testers who do not want to use a formal lab environment.

ONAP resource consumption made it impossible to deploy the demo on an all-virtual, Triple-O installation running on an Intel Intel(R) Xeon(R) CPU E5-2699 v4 @ 2.20GHz server with 22 cores and 128 GB RAM.



Work in Progress

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24 July 2017 - Work on this initiative has stopped.

Hardware

- 1 Intel NUC 5i7RYH
 - [Intel Core i7-5557U](#) dual-core processor
 - 16 GB RAM
 - 1 ethernet port
 - 1 usb ethernet port
- 2 SuperMicro 5018D-FN4T 1U servers
 - [Xeon D-1541 8 Core processor](#)
 - 128 GB RAM
 - IPMI port plus 4 ethernet ports
 - 1 TB HDD
- 2 Netgear Routers (WNR2000v5 - public, WNR3500U - admin)
- 1 8-port switch

Configuration

The Netgear routers function as dumb gateways for Admin and Public networks.

Admin: 192.168.10.1

Public: 192.168.11.1

The NUC and both servers are connected to both routers. The NUC has a static IP of 192.168.10.2.

OpenStack Installation

I am using the [OPNFV Triple-O](#) installer (Danube release). The NUC serves as the jumphost and the Super Micro servers act as compute and control nodes.