

دانشگاه صنعتی شریف دانشکده مهندسی برق

درس شبكه موبايل نرم افزار محور

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استاد: دكتر خلج

بهار 1399

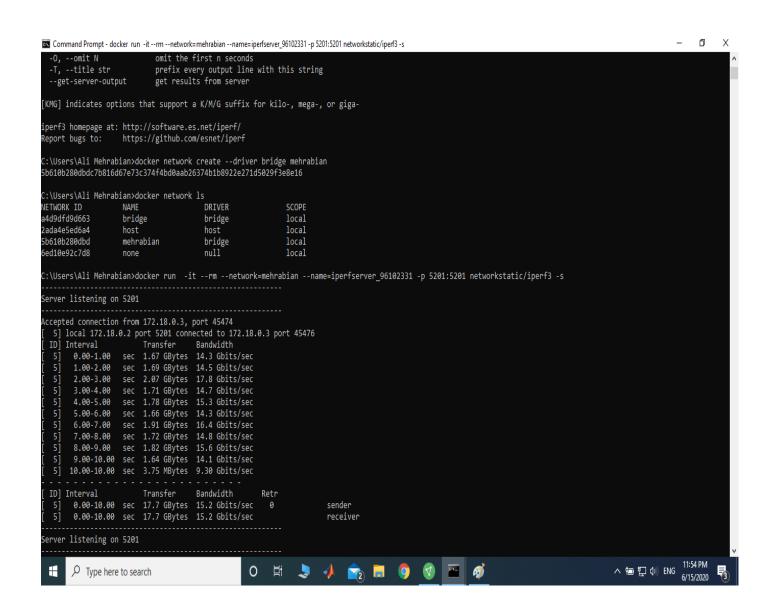


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در سمت سرور از دستورات زیر استفاده می کنیم.

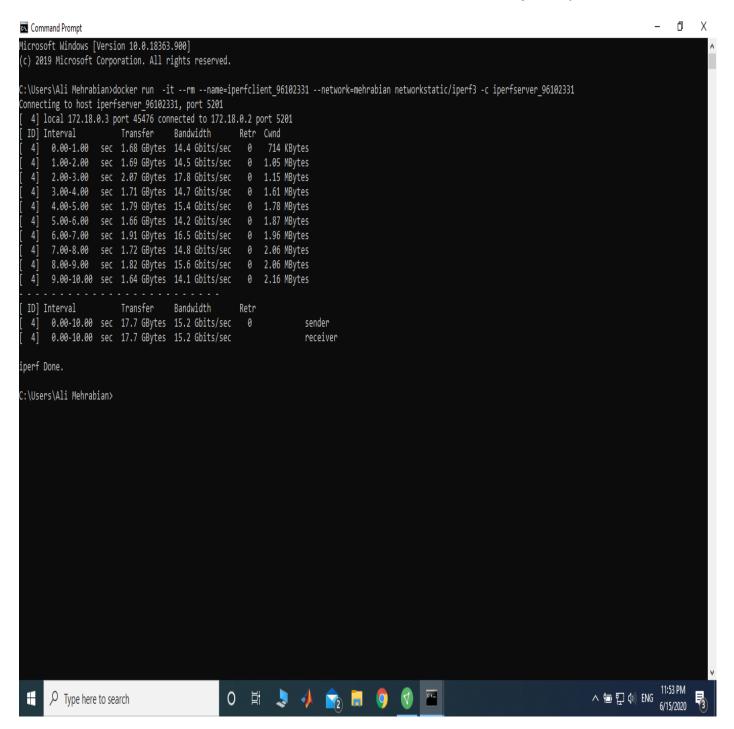




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در سمت client،به صورت زیر است.





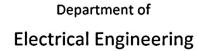
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در این سوال،از دستورات زیر استفاده کردیم.

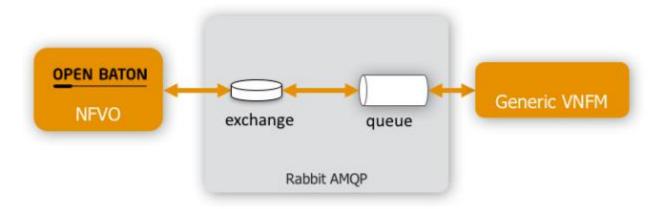
Jsers\Ali Mehrabian>docker pull openbaton/standalone ng default tag: latest est: Pulling from openbaton/standalone est: sha256:a16735e38fa56b32785682728ccbd2bcffdf1360d2ef69cf2f0fe6444e9ccd6d us: Image is up to date for openbaton/standalone:latest ker.io/openbaton/standalone:latest Jsers∖Ali Mehrabian>docker run --name openbaton -d -h openbaton-rabbitmq -p 8080:8080 -p 5672:5672 -p 15672:15672 -p 8443:8443 -e RABBITMQ_BROKERIP=∢RabbitMQ IP> ope ton/standalone system cannot find the file specified. Jsers∖Ali Mehrabian>docker run --name openbaton -d -h openbaton-rabbitmq -p 8080:8080 -p 5672:5672 -p 15672:15672 -p 8443:8443 -e RABBITMQ BROKERIP=192.168.1.1 openb 6fc0bfff4f310a123862188ef32c7e722d7cebe8a6cad9cbc114fc62873ae Jsers∖Ali Mehrabian>docker ps -a TAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES 6fc0bfff4 "/usr/bin/supervisord" 0.0.0.0:5672->5672/tcp, 0.0.0.0:8080->8080/tcp, 0.0.0. openbaton/standalone 36 seconds ago Up 31 seconds 443->8443/tcp, 0.0.0.0:15672->15672/tcp openbaton "/hello" 19867da7e hello-world 6 days ago Exited (0) 6 days ago ubuntu c11a4ae35 "bash --name iperfse…" 6 days ago Exited (2) 6 days ago nostalgic_mccarthy 374cc5941 hello-world "/hello" Exited (0) 6 days ago 6 days ago 69 "--name sss" hello-world 91cae3328 6 days ago Created cranky_bell "/hello 98a502491 hello-world Exited (0) 6 days ago 6 days ago nginx 771cb9582 hello-world "/hello" Exited (0) 6 days ago 6 days ago goofy_sinoussi "/docker-entrypoint..." 3e33079d1 nginx Exited (255) 6 days ago 0.0.0.0:8080->80/tcp 6 days ago mynginx1 27f10a8f5 ubuntu "bash' 6 days ago Exited (0) 6 days ago stupefied_hamilton hello-world "/hello" cd9c132d 6 days ago Exited (0) 6 days ago wonderful_mestorf 9105754cc ubuntu "/bin/bash" 6 days ago Exited (0) 6 days ago condescending_lewin e5b742ed7 "/bin/bash" ubuntu 6 days ago Exited (0) 6 days ago angry_bohr 8:55 AM へ 恒 型 砂 ENG Type here to search

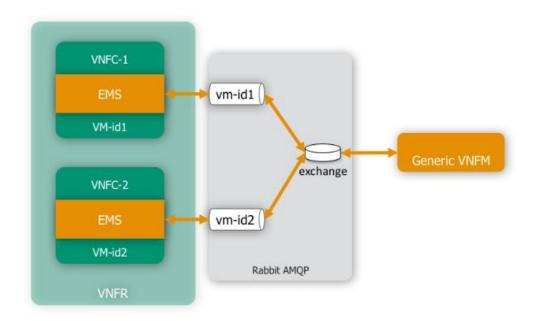




Rabbitmq: is a message queueing software. It is software where queues are defined, to which applications connect in order to transfer a message or messages.

In openbaton, communication NFVO \leftrightarrow VNFM \leftrightarrow EMS is done using the AMQP protocol over RabbitMQ.







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NFVO: A NFV Orchestrator managing the lifecycle of Network Service Descriptors (NSD) and interfacing with one or more VNF Manager(s) (VNFM)

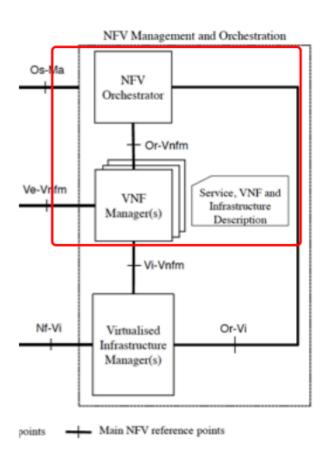
Nfvo is a modular software composed by many parts.

API: his module contains the necessary classes exposing APIs as ReST server.

Main: This module contains the classes in charge of the startup of the whole system and gathering configuratons for instance.

Core-int: This module contains the interfaces of the core functionalities regarding only the internal NFVO interfaces. Most of them are defined in ETSI MANO specification in NFV-MANO interfaces section.

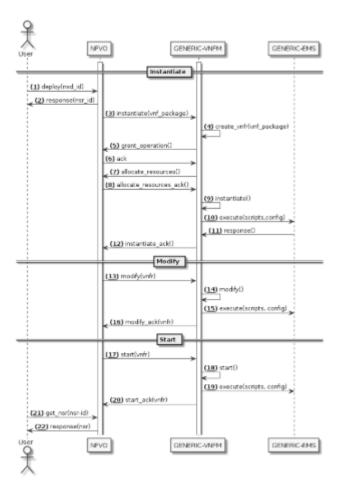
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Generic VNF: The Generic VNF Manager is an implementation following the ETSI MANO specifications. It works as intermediate component between the NFVO and the VNFs, particularly the Virtual Machines on top of which the VNF software is installed. In order to complete the lifecycle of a VNF, it interoperates with the Open Baton Element Management System (EMS) which acts as an agent inside the VMs and executing scripts contained in a VNF package or defined via the scripts—link inside the VNFD. The Generic VNFManager is capable of handling errors caused while executing these scripts. Together with the NFVO, it allows update of failed scripts, and resume NSR from the failed lifecycle state. Currently, this is applicable only for scripts contained inside VNF Packages and not for scripts referred using scripts—link. This VNFM may be assigned to the management of a single VNF instance, or the management of multiple VNF instances of the same type or of different types.





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OpenStack4j: OpenStack4j is an open source library that helps you manage an OpenStack deployment. It is a fluent based API giving you full control over the various OpenStack services. OpenStack is an opensource cloud operating system that provides a Versatile platform for computing storage and networking resources across bare metal, Virtual machines and containers.

