Prerequisite:

OS: Centos

RAM: 6 GB

Storage: 50 GB

Fast internet

Script installation:

The easy way to install optima is to run the installation script

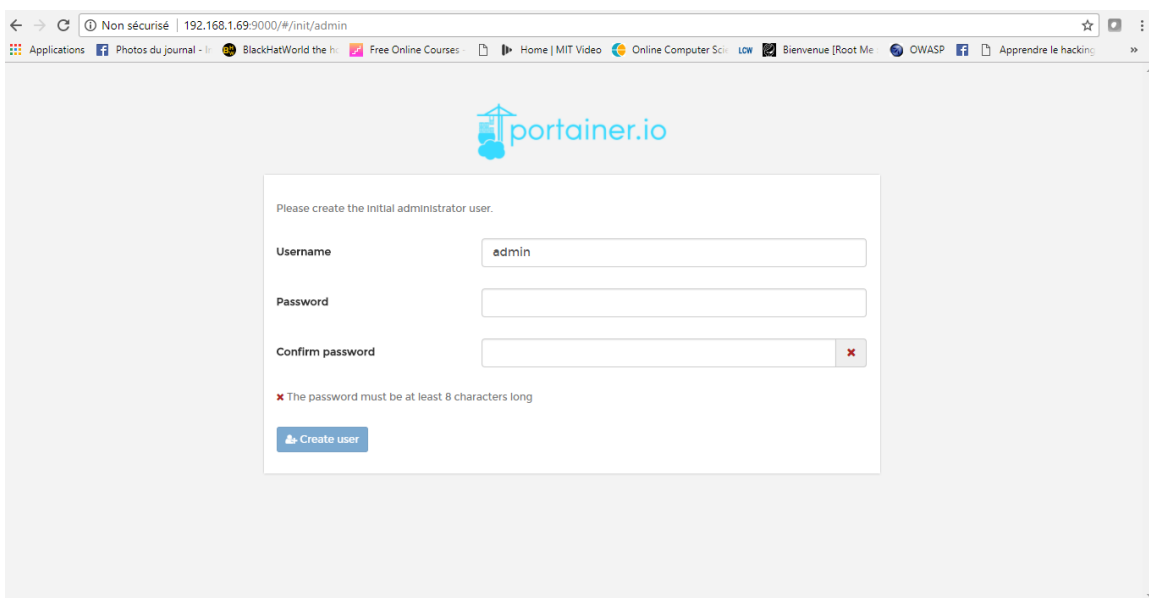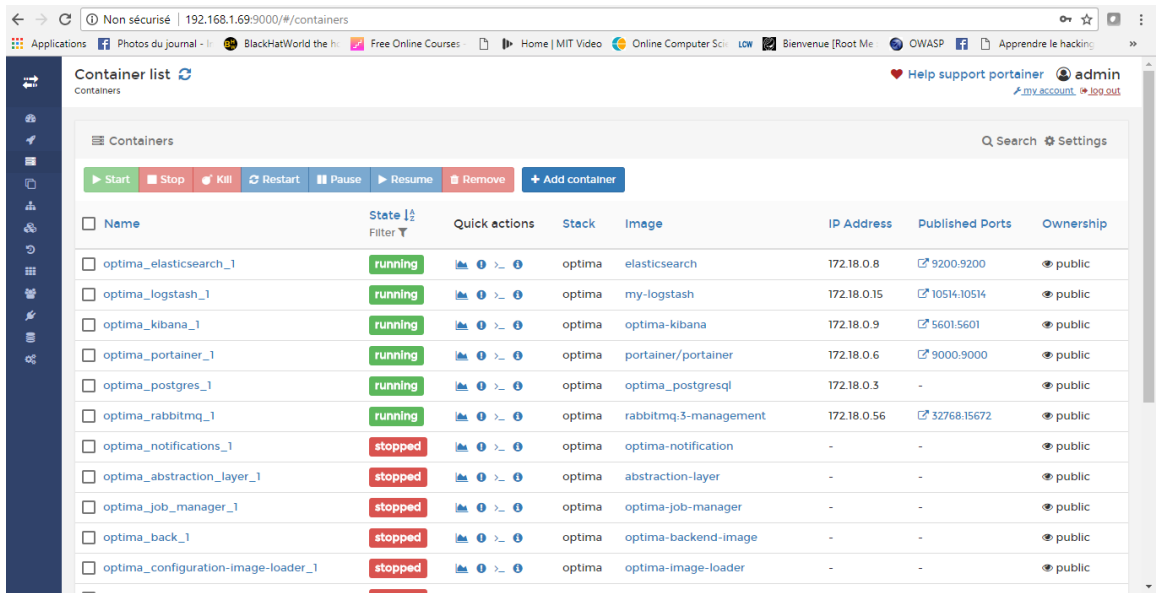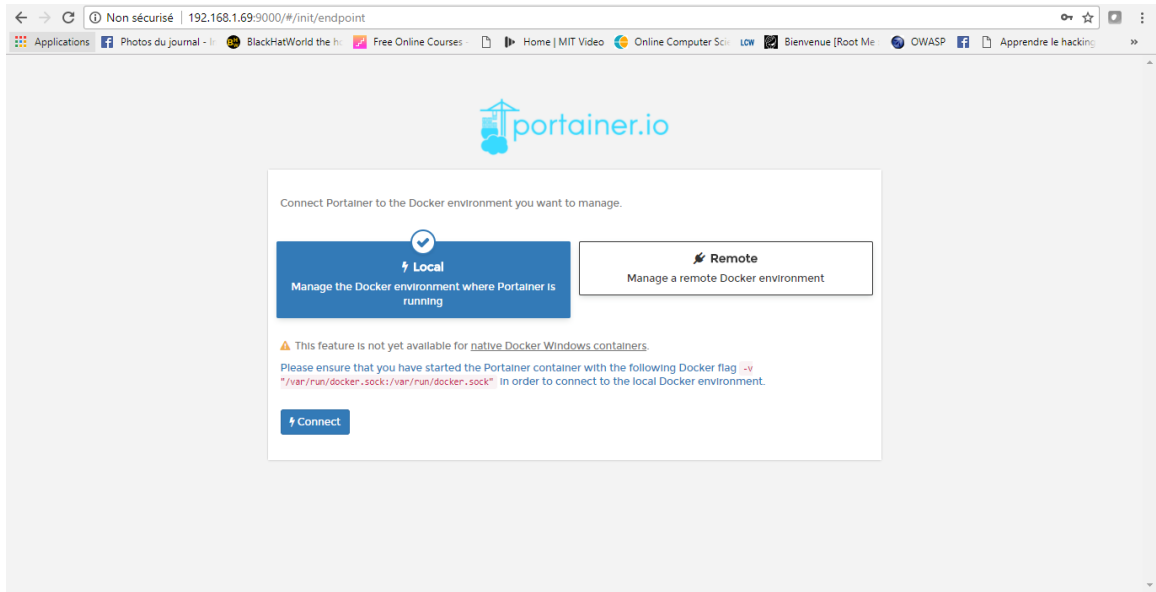Go to optima directory, after unziping the file run:

cd optima

start-optima ipaddress

ipaddress : is the ipaddress of the host when we want install optima

Configure Portainer to manage the containers:

http://ipaddress:9000

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portainer.io

Connect Portainer to the Docker environment you want to manage.

⚡ Local
Manage the Docker environment where Portainer is running

⚡ Remote
Manage a remote Docker environment

⚠ This feature is not yet available for native Docker Windows containers.
Please ensure that you have started the Portainer container with the following Docker flag `-v "/var/run/docker.sock:/var/run/docker.sock"` in order to connect to the local Docker environment.

⚡ Connect

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Container list ⟳
Containers

♥ Help support portainer 👤 admin
🔑 my account log out

☰ Containers

Q Search ⚙ Settings

▶ Start ■ Stop Kill ⟳ Restart ❚❚ Pause ▶ Resume 🗑 Remove ✚ Add container

Name	State ↓ Filter ▼	Quick actions	Stack	Image	IP Address	Published Ports	Ownership
optima_elasticsearch_1	running	⊞ ❶ >_ ❶	optima	elasticsearch	172.18.0.8	⬀ 9200:9200	👁 public
optima_logstash_1	running	⊞ ❶ >_ ❶	optima	my-logstash	172.18.0.15	⬀ 10514:10514	👁 public
optima_kibana_1	running	⊞ ❶ >_ ❶	optima	optima-kibana	172.18.0.9	⬀ 5601:5601	👁 public
optima_portainer_1	running	⊞ ❶ >_ ❶	optima	portainer/portainer	172.18.0.6	⬀ 9000:9000	👁 public
optima_postgres_1	running	⊞ ❶ >_ ❶	optima	optima_postgresql	172.18.0.3	-	👁 public
optima_rabbitmq_1	running	⊞ ❶ >_ ❶	optima	rabbitmq:3-management	172.18.0.56	⬀ 32768:15672	👁 public
optima_notifications_1	stopped	⊞ ❶ >_ ❶	optima	optima-notification	-	-	👁 public
optima_abstraction_layer_1	stopped	⊞ ❶ >_ ❶	optima	abstraction-layer	-	-	👁 public
optima_job_manager_1	stopped	⊞ ❶ >_ ❶	optima	optima-job-manager	-	-	👁 public
optima_back_1	stopped	⊞ ❶ >_ ❶	optima	optima-backend-image	-	-	👁 public
optima_configuration-image-loader_1	stopped	⊞ ❶ >_ ❶	optima	optima-image-loader	-	-	👁 public

If we have any stopped container we can see the logs of this container:

Now we need to create routes in RabbitMQ for routing queues as follows:
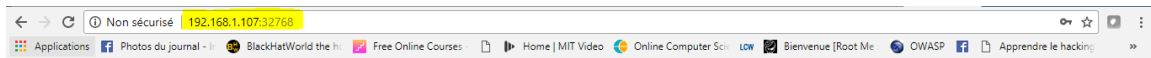
Create the agent exchange if it is not:

RabbitMQ. 3.7.3 Erlang 20.2.2

Refreshed 2018-02-21 19:40:06 | Refresh every 5 seconds ▼
Virtual host All ▼
Cluster **rabbit@9cb450b1ad42**
User **optima** Log out

Overview   Connections   Channels   **Exchanges**   Queues   Admin

configuration_differ_precheck	direct	D		
configuration_image_loader	direct	D		
configuration_parser	direct	D		
configuration_sender	direct	D		
job_manager	direct	D		
notification	direct	D		
orchestrator	direct	D		
raw_jobs	direct	D		
reply.celery.pidbox	direct		0.00/s	0.00/s

▼ Add a new exchange

Name: `agent_exchange` *
Type: `topic ▼`
Durability: `Durable ▼`
Auto delete: ? `No ▼`
Internal: ? `No ▼`
Arguments: [   ] = [   ] `String ▼`
Add   Alternate exchange ?

[Add exchange]

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RabbitMQ. 3.7.3 Erlang 20.2.2

Refreshed 2018-02-21 19:41:08 | Refresh every 5 seconds ▼
Virtual host All ▼
Cluster **rabbit@9cb450b1ad42**
User **optima** Log out

Overview   Connections   Channels   **Exchanges**   Queues   Admin

Exchange: agent_exchange

▼ Overview

Message rates last minute ?

Currently idle

Details

Type	direct
Features	durable: true
Policy	

▼ Bindings

[This exchange]
⇓

To	Routing key	Arguments	
configuration_parser	configuration_parser		[Unbind]

Add binding from this exchange

`To queue ▼` : `configuration_differ_prech` *
Routing key: `configuration_differ_prech`
Arguments: [   ] = [   ] `String ▼`

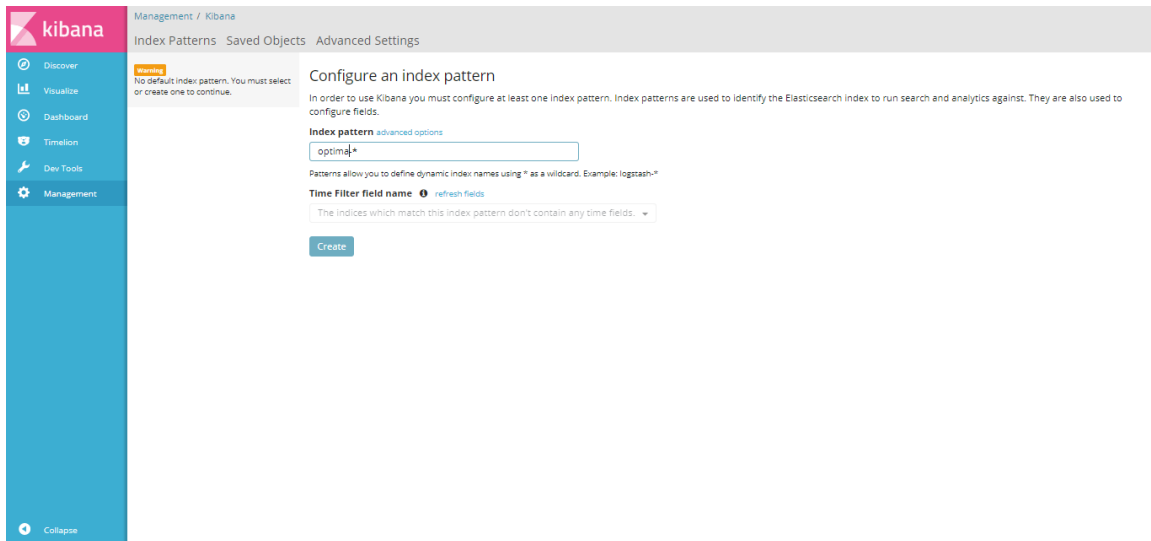[Bind]

Configure ELK stack:

Index pattern : optima-*

If the index is not found please send the next PUT:

curl –X PUT http://ipaddress:9200/optima-<date>

If all works well optima is ready, and the login and the password are:

Login: admin

Password: admin

In case of authentication problem:

Please execute the following command:

docker exec –it optima_postgres_1 /bin/bash

we are now inside the container:

su - postgres

psql -d optimadb -f /home/init.sql

exit

exit

optima_postgres_1: is the default name of postgres container we can change it by the name mentioned in Portainer.

In case of problem to start optima:

Go to portainer and start all stopped containers, and see the logs for the stopped ones.

If you have any other problem don't hesitate to contact me : Hamza EL-HAFYANI
hamzamp.ing@gmail.com