

[illegible]

Name	Tool: Portainer
URL	https://attackdefense.com/challengedetails?cid=1414
Type	DevSecOps : Docker Tools

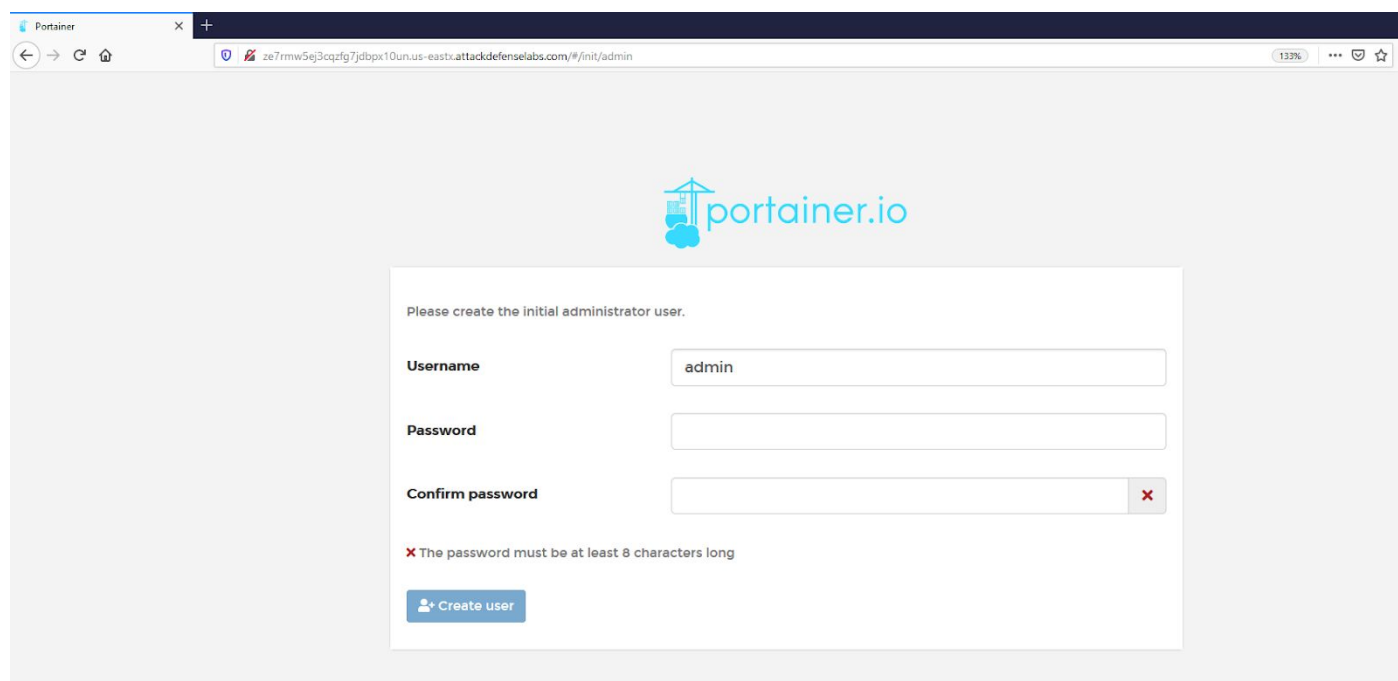
Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Objective: Explore the Docker host system using Portainer and try out different operations!

Solution:


Configuring portainer:

Landing page:



The screenshot shows a web browser window with the Portainer.io landing page. The page has a light gray background with the Portainer.io logo at the top center. Below the logo is a white box containing a form to create the initial administrator user. The form has three input fields: 'Username' (with 'admin' entered), 'Password', and 'Confirm password'. A red 'x' icon is visible next to the 'Confirm password' field. Below the fields is a red error message: 'The password must be at least 8 characters long'. At the bottom of the form is a blue button labeled 'Create user'.


Step 1: Enter “password” in the password field as well as in the confirm password field.




Please create the initial administrator user.

Username


Password

Confirm password 


✓ The password must be at least 8 characters long


 Create user


Step 2: Select “Local” environment.




Connect Portainer to the Docker environment you want to manage.

 **Local**
Manage the local Docker environment

 **Remote**
Manage a remote Docker environment

 **Agent**
Connect to a Portainer agent

 **Azure**
Connect to Microsoft Azure ACI

Information


Manage the Docker environment where Portainer is running.

🔔 Ensure that you have started the Portainer container with the following Docker flag:

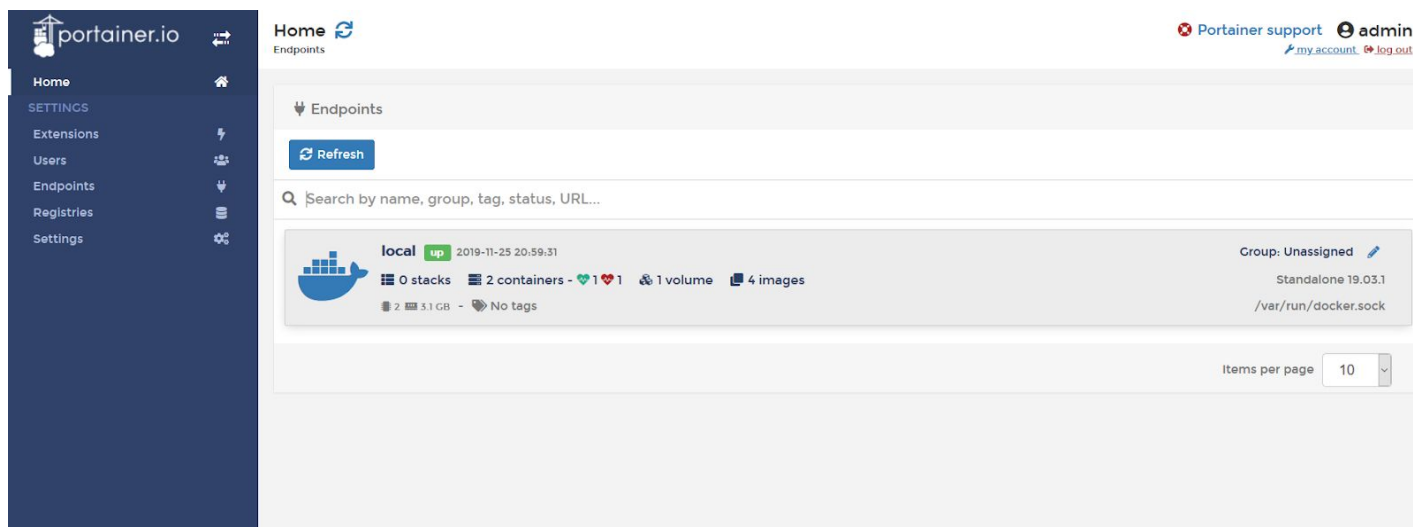
```
-v "/var/run/docker.sock:/var/run/docker.sock" (Linux).
```

or

```
-v "\\.\pipe\docker_engine:\\.\pipe\docker_engine" (Windows).
```

 Connect

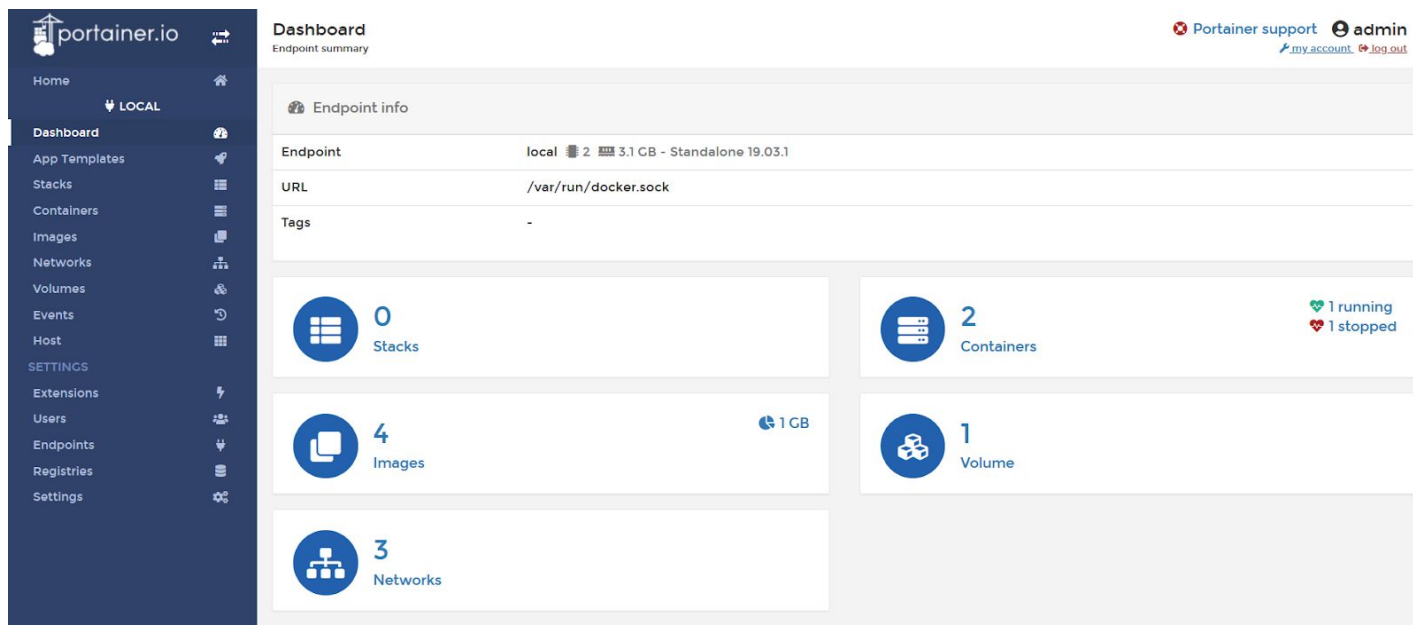
Dashboard:



The screenshot shows the Portainer.io Dashboard. On the left is a dark blue sidebar with the Portainer.io logo and a menu including Home, SETTINGS, Extensions, Users, Endpoints, Registries, and Settings. The main content area is titled 'Home Endpoints' and shows a list of endpoints. The 'local' endpoint is selected and highlighted. It shows details: 0 stacks, 2 containers (1 running, 1 stopped), 1 volume, and 4 images. The endpoint is a standalone version 19.03.1 connected to /var/run/docker.sock. A search bar and a 'Refresh' button are also visible.

Listing running containers:

Step 1: Select the local endpoint.



The screenshot shows the Portainer.io Dashboard with the 'LOCAL' endpoint selected in the sidebar. The main content area is titled 'Dashboard Endpoint summary'. It displays 'Endpoint info' for the 'local' endpoint, showing it is a standalone version 19.03.1 connected to /var/run/docker.sock. Below this, there are six summary cards: 0 Stacks, 2 Containers (1 running, 1 stopped), 4 Images (1 GB), 1 Volume, 3 Networks, and 0 Events. The sidebar menu is visible on the left.

Step 2: Click on the containers section.

Container list

Containers

Portainer support admin my account log out

Containers Columns Settings

Start Stop Kill Restart Pause Resume Remove Add container

Search...

Name	State	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
modest_villani	running		-	portainer/portainer	2019-11-25 20:57:39	172.17.0.2	8000:8000 9000:9000	administrators
confident_ptolemy	stopped		-	portainer/portainer	2019-11-22 11:50:45	-	-	administrators

Items per page 10

All the stopped and running container are listed. The image name, IP address and the published ports of the container are also listed on the webpage.

Viewing details of stopped containers.

Step 1: Click on the name of the stopped container.

Container details

Containers > confident_ptolemy

Portainer support admin my account log out

Actions

Start Stop Kill Restart Pause Resume Remove Recreate Duplicate/Edit

Container status

ID	68e6b93def2519c92f06835e7073a3ae7fd92bad180f841f2b313acfdce0cb47
Name	confident_ptolemy
Status	Stopped for 3 days with exit code 1
Created	2019-11-22 11:50:45
Finished	2019-11-22 11:55:55

Logs Inspect Stats Console Attach

Access control

Ownership administrators

Change ownership

The details of the stopped containers are provided on the web page.

Step 2: View the logs. Click on the Logs button.

portainer.io

Container logs
Containers > confident_ptolemy > Logs

Portainer support admin
my account log out

Log viewer settings

Auto-refresh logs ☒

Wrap lines ☒

Display timestamps ☐

Fetch All logs

Search Filter...

Lines 100

Actions

```
2019/11/22 06:20:55 server: Reverse tunnelling enabled
2019/11/22 06:20:55 server: Fingerprint 1d:71:3a:b5:5f:7a:bc:63:93:fb:0e:ad:5a:ff:b9:9c
2019/11/22 06:20:55 server: Listening on 0.0.0.0:8000...
2019/11/22 06:20:55 Starting Portainer 1.22.2 on :9000
2019/11/22 06:20:55 [DEBUG] [chisel, monitoring] [check_interval_seconds: 10.000000] [message: starting tunnel management process]
2019/11/22 06:25:55 No administrator account was created after 5 min. Shutting down the Portainer instance for security reasons.
```

Logs:

```
2019/11/22 06:20:55 server: Reverse tunnelling enabled
2019/11/22 06:20:55 server: Fingerprint 1d:71:3a:b5:5f:7a:bc:63:93:fb:0e:ad:5a:ff:b9:9c
2019/11/22 06:20:55 server: Listening on 0.0.0.0:8000...
2019/11/22 06:20:55 Starting Portainer 1.22.2 on :9000
2019/11/22 06:20:55 [DEBUG] [chisel, monitoring] [check_interval_seconds: 10.000000] [message: starting tunnel management process]
2019/11/22 06:25:55 No administrator account was created after 5 min. Shutting down the Portainer instance for security reasons.
```

Checking statistics of the running container:

Step 1: View the list of containers. Click on the containers tab on the left panel.

Container list

Containers

Portainer support admin my account log out

Containers Columns Settings

Start Stop Kill Restart Pause Resume Remove Add container

Search...

Name	State	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
modest_villani	running	[Icons]	-	portainer/portainer	2019-11-25 20:57:39	172.17.0.2	8000:8000 9000:9000	administrators
confident_ptolemy	stopped	[Icons]	-	portainer/portainer	2019-11-22 11:50:45	-	-	administrators

Items per page 10

Step 2: Click on the name of the running container.

Container details

Containers > modest_villani

Portainer support admin my account log out

Actions

Start Stop Kill Restart Pause Resume Remove Recreate Duplicate/Edit

Container status

ID	fa203934194c48f7c576d72eeddb8247d09cb9765829c36fa491854e193de3fb
Name	modest_villani
IP address	172.17.0.2
Status	Running for 4 minutes
Created	2019-11-25 20:57:39
Start time	2019-11-25 20:57:48

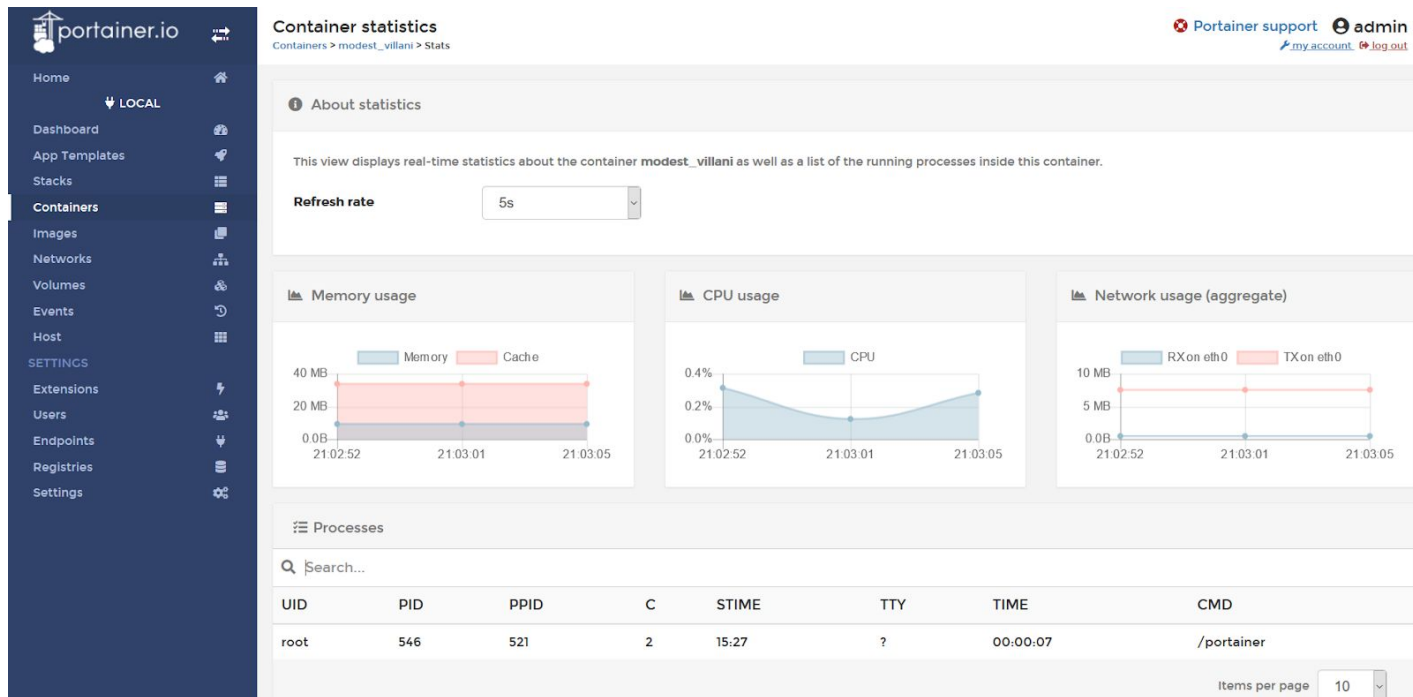
Logs Inspect Stats Console Attach

Access control

Ownership administrators

Change ownership

Step 3: Click on the stats button.



The CPU, Memory and network usage is displayed on the web page. The processes running on the container are also listed.

Identifying the images available on the machine.

Step 1: Click on the Images tab on the left panel.

portainer.io

Image list

Portainer support admin

my account log out

Home LOCAL

Dashboard

App Templates

Stacks

Containers

Images

Networks

Volumes

Events

Host

SETTINGS

Extensions

Users

Endpoints

Registries

Settings

Pull image

Image e.g. myImage:myTag Registry DockerHub

Image name is required.

Note: if you don't specify the tag in the image name, latest will be used.

Pull the image

Images Settings

Remove Build a new image Import Export

Search...

Id	Tags	Size	Created
sha256:965ea09ff2ebd2b9ecec88cd822ce1...	alpine:latest	5.6 MB	2019-10-21 22:51:42
sha256:54ee2a71bdeffa053d212cbe2146b5...	modified-ubuntu:latest	854.7 MB	2019-11-15 11:51:35
sha256:d1219c88aa219e0125b7391a922f63...	portainer/portainer:latest	80.8 MB	2019-11-06 11:02:58
sha256:775349758637aff77bf85e2ff0597e...	ubuntu:18.04	64.2 MB	2019-11-01 03:50:37

List of images are displayed on the web page.

Starting a container:

Step 1: Navigate to Containers webpage. Click on the containers tab on the left panel

portainer.io

Container list

Portainer support admin

my account log out

Home LOCAL

Dashboard

App Templates

Stacks

Containers

Images

Networks

Volumes

Events

Host

SETTINGS

Extensions

Users

Endpoints

Registries

Settings

Containers Columns Settings

Start Stop Kill Restart Pause Resume Remove Add container

Search...

Name	State	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
modest_villani	running		-	portainer/portainer	2019-11-25 20:57:39	172.17.0.2	8000:8000 9000:9000	administrators
confident_ptolemy	stopped		-	portainer/portainer	2019-11-22 11:50:45	-	-	administrators

Items per page 10

Step 2: Click on the “Add container” button.

portainer.io

Create container
Containers > Add container

Portainer support admin
my account log out

Name

Image configuration

Image Registry

Image name is required.

Always pull the image ? ☒

Network ports configuration

Publish all exposed network ports to random host ports ? ☐

Manual network port publishing [publish a new network port](#)

Access control

Step 3: Enter “mycontainer” in the name field and select “modified-ubuntu:latest” in the image field.

Name

Image configuration

Image Registry

Always pull the image ? ☒

Network ports configuration

Publish all exposed network ports to random host ports ? ☐

Manual network port publishing [publish a new network port](#)

Access control

Enable access control ? ☒

☒ Administrators
I want to restrict the management of this resource to administrators only

☐ Restricted
I want to restrict the management of this resource to a set of users and/or teams

Actions

Auto remove ? ☐

[Deploy the container](#)

Step 4: Click on the “Deploy the container” button.

Name

Image configuration

Image **Registry**

Always pull the image ☒


Network ports configuration


Publish all exposed network ports to random host ports ☐

Manual network port publishing [+ publish a new network port](#)

Access control


Enable access control ☒

**Administrators**
I want to restrict the management of this resource to administrators only

**Restricted**
I want to restrict the management of this resource to a set of users and/or teams























Actions

Auto remove ☐

Deployment in progress... 

Container list

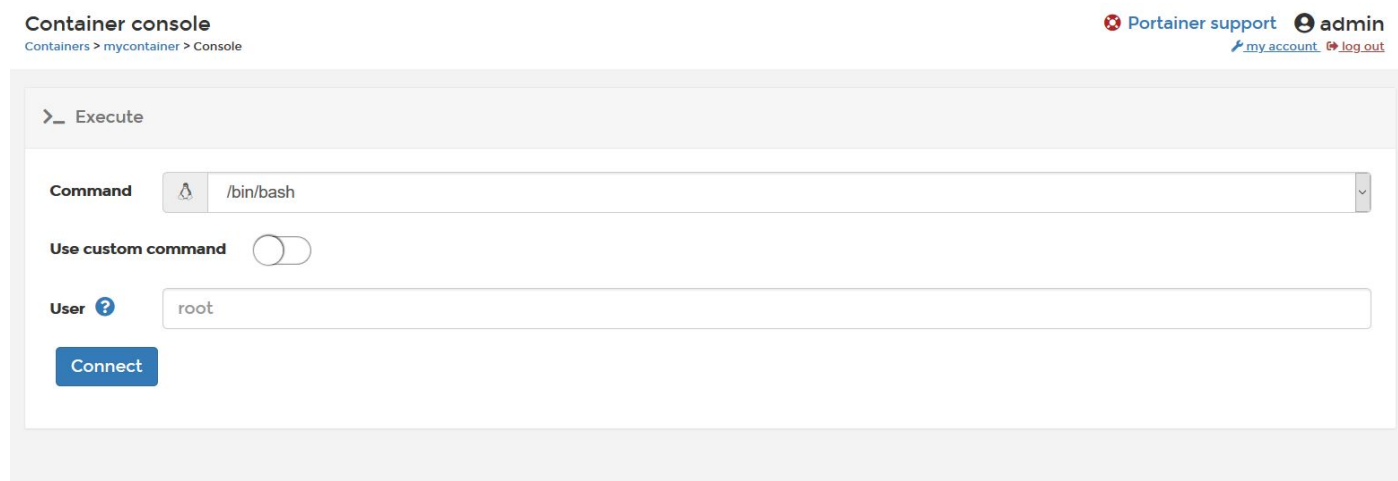
[Portainer support](#) [admin](#)
[my account](#) [log out](#)

Containers									
<div>       </div>									
<input type="text" value="Search..."/>									
<input type="checkbox"/>	Name	State Filter	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
<input type="checkbox"/>	mycontainer	running	   	-	modified-ubuntu:latest	2019-11-25 21:05:14	172.17.0.3	-	 administrators
<input type="checkbox"/>	modest_villani	running	   	-	portainer/portainer	2019-11-25 20:57:39	172.17.0.2	 8000:8000  9000:9000	 administrators
<input type="checkbox"/>	confident_ptolemy	stopped		-	portainer/portainer	2019-11-22 11:50:45	-	-	 administrators
Items per page									10

The container was started successfully.

Executing commands on the running container.

Step 1: Click on the “Exec Console” button of the mycontainer container from the quick action columns.



The screenshot shows the 'Container console' interface in Portainer. At the top, it says 'Container console' and 'Containers > mycontainer > Console'. On the right, there are links for 'Portainer support', 'admin', 'my account', and 'log out'. The main area is titled '>_ Execute'. It contains a 'Command' dropdown menu set to '/bin/bash', a 'Use custom command' toggle switch which is turned off, and a 'User' input field with a question mark icon, containing the text 'root'. Below these fields is a blue 'Connect' button.

Step 2: Click on the Connect button.

Commands:

id
ls /

Container console

Containers > mycontainer > Console

Portainer support admin

[my account](#) [log out](#)

>_ Execute

Exec into container as **default user** using command **bash**

Disconnect

```
root@a755ea27f1eb:~#
root@a755ea27f1eb:~#
root@a755ea27f1eb:~#
root@a755ea27f1eb:~# id
uid=0(root) gid=0(root) groups=0(root)
root@a755ea27f1eb:~#
root@a755ea27f1eb:~#
root@a755ea27f1eb:~#
root@a755ea27f1eb:~# ls /
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv startup.sh sys tmp usr var
root@a755ea27f1eb:~#
root@a755ea27f1eb:~#
root@a755ea27f1eb:~#
```

Killing a container:

Step 1: Access the container details page. Click on the mycontainer container hyperlink below “Container console” heading.

Container details

Containers > mycontainer

Portainer support admin

[my account](#) [log out](#)

⚙ Actions

[Start](#) [Stop](#) [Kill](#) [Restart](#) [Pause](#) [Resume](#) [Remove](#) [Recreate](#) [Duplicate/Edit](#)

☰ Container status

ID	a755ea27f1ebe33954a4706f41b205b016d80bc780ab3cfd034dad231c5332e8
Name	mycontainer ↗
IP address	172.17.0.3
Status	♥ Running for a minute
Created	2019-11-25 21:05:14
Start time	2019-11-25 21:05:22

[Logs](#) [Inspect](#) [Stats](#) [Console](#) [Attach](#)

Step 2: Click on the kill button.

Container details
Containers > mycontainer

Portainer support admin

Container successfully killed
a755ea27flebe33954a4706f41b205b016d80bc780ab3cfd034dad231c5332e8

Actions

Start

Stop

Kill

Restart

Pause

Resume

Remove

Recreate

Duplicate/Edit

Container status

ID	a755ea27flebe33954a4706f41b205b016d80bc780ab3cfd034dad231c5332e8
Name	mycontainer
Status	Stopped for a few seconds with exit code 137
Created	2019-11-25 21:05:14
Finished	2019-11-25 21:06:44

Logs

Inspect

Stats

Console

Attach

The container was killed successfully.

Starting a stopped a container:

Step 1: Tick the checkbox for mycontainer container.

Container list

Portainer support admin

my account log out

Containers

Columns

Settings

Start

Stop

Kill

Restart

Pause

Resume

Remove

+ Add container


Search...

<input type="checkbox"/> Name	State Filter	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
<input type="checkbox"/> modest_villani	running	<div></div>	-	portainer/portainer	2019-11-25 20:57:39	172.17.0.2	<div>8000:8000</div> <div>9000:9000</div>	administrators
<input checked="" type="checkbox"/> mycontainer	stopped	<div></div>	-	modified-ubuntu:latest	2019-11-25 21:05:14	-	-	administrators
<input type="checkbox"/> confident_ptolemy	stopped	<div></div>	-	portainer/portainer	2019-11-22 11:50:45	-	-	administrators


1 item(s) selected

Items per page 10

Step 2: Click on the start button.

Container list 


















Containers

Portainer support  admin [my account](#) [log out](#)

Containers Columns Settings

Start Stop Kill Restart Pause Resume Remove Add container

Search...

<input type="checkbox"/>	Name	State  Filter 	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
<input type="checkbox"/>	mycontainer	running	   	-	modified-ubuntu:latest	2019-11-25 21:05:14	172.17.0.3	-	 administrators
<input type="checkbox"/>	modest_villani	running	   	-	portainer/portainer	2019-11-25 20:57:39	172.17.0.2	 9000:9000  8000:8000	 administrators
<input type="checkbox"/>	confident_ptolemy	stopped	 	-	portainer/portainer	2019-11-22 11:50:45	-	-	 administrators

Items per page 10


The stopped container was started successfully.

Starting a privileged Container with mounted volume:

Step 1: Click on “Add container” button. Enter “privileged-container” in the name field and select modified-ubuntu:latest in the image field.

Create container


Containers > Add container

Portainer support  admin [my account](#) [log out](#)


Name

Image configuration

Image Registry

Always pull the image 

Network ports configuration

Publish all exposed network ports to random host ports 

Manual network port publishing [publish a new network port](#)

Access control

Step 2: Scroll down and enable the privileged mode option in the “Runtime & Resources” section.

Advanced container settings

Command & logging Volumes Network Env Labels Restart policy **Runtime & Resources** Capabilities

Runtime

Privileged mode ☒

Runtime Default

Devices [+ add device](#)

Resources

Memory reservation	unlimited	3144	0	Memory soft limit (MB)
Memory limit	unlimited	3144	0	Memory limit (MB)
CPU limit	unlimited		2	Maximum CPU usage

Memory and CPU restrictions can be placed through the settings in resources section.

Step 3: Click on the Volumes tab.

Advanced container settings

Command & logging **Volumes** Network Env Labels Restart policy Runtime & Resources Capabilities

Volume mapping [+ map additional volume](#)

Step 4: Click on the “map additional volume” button and select the bind option. Enter “/host” in the container field and enter “/” in the host field.

⚙️ Advanced container settings

Command & logging
Volumes
Network
Env
Labels
Restart policy
Runtime & Resources
Capabilities

Volume mapping
➕ map additional volume

container	/host	Volume	Bind	🗑️
→ host	/	Writable	Read-only	

Step 5: Click on the “Deploy the container button”.

Manual network port publishing
➕ publish a new network port

Access control

Enable access control ? ☒

✓
Administrators

I want to restrict the management of this resource to administrators only

👤
Restricted

I want to restrict the management of this resource to a set of users and/or teams

Actions

Auto remove ? ☐

Deployment in progress... ⌵

⚙️ Advanced container settings

Command & logging
Volumes
Network
Env
Labels
Restart policy
Runtime & Resources
Capabilities

Volume mapping
➕ map additional volume

container	/host	Volume	Bind	🗑️
→ host	/	Writable	Read-only	

Containers

Columns Settings

StartStopKillRestartPauseResumeRemoveAdd container

Search...

<input type="checkbox"/>	Name	State <div>Filter</div>	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
<input type="checkbox"/>	privileged-container	running	<div><div></div><div></div><div></div><div></div></div>	-	modified-ubuntu:latest	2019-11-25 21:09:36	172.17.0.4	-	<div></div> administrators
<input type="checkbox"/>	mycontainer	running	<div><div></div><div></div><div></div><div></div></div>	-	modified-ubuntu:latest	2019-11-25 21:05:14	172.17.0.3	-	<div></div> administrators
<input type="checkbox"/>	modest_villani	running	<div><div></div><div></div><div></div><div></div></div>	-	portainer/portainer	2019-11-25 20:57:39	172.17.0.2	<div><div></div> 8000:8000<div></div> 9000:9000</div>	<div></div> administrators
<input type="checkbox"/>	confident_ptolemy	stopped	<div><div></div><div></div></div>	-	portainer/portainer	2019-11-22 11:50:45	-	-	<div></div> administrators

Items per page10

The container was started successfully.

Step 6: Access the Container console of the container.

Commands:

capsh --print

ls /host

```

root@389acc394af7:~#
root@389acc394af7:~#
root@389acc394af7:~# capsh --print
Current: = cap_chown,cap_dac_override,cap_dac_read_search,cap_fowner,cap_fsetid,cap_kill,cap_setgid,cap_setuid,cap_setpcap,cap_sys_rawio,cap_sys_chroot,cap_sys_ptrace,cap_sys_pacct,cap_sys_admin,cap_sys_boot,cap_sys_nice,cap_sys_resource,cap_sys_time,cap_sys_tty_config,cap_mknod,cap_lease,cap_audit_write,cap_audit_control,cap_setfcap,cap_mac_override,cap_mac_admin,cap_syslog,cap_wake_alarm,cap_block_suspend,cap_audit_read+eip
Bounding set =cap_chown,cap_dac_override,cap_dac_read_search,cap_fowner,cap_fsetid,cap_kill,cap_setgid,cap_setuid,cap_setpcap,cap_sys_rawio,cap_sys_chroot,cap_sys_ptrace,cap_sys_pacct,cap_sys_admin,cap_sys_boot,cap_sys_nice,cap_sys_resource,cap_sys_time,cap_sys_tty_config,cap_mknod,cap_lease,cap_audit_write,cap_audit_control,cap_setfcap,cap_mac_override,cap_mac_admin,cap_syslog,cap_wake_alarm,cap_block_suspend,cap_audit_read
Securebits: 00/0x0/1'b0
secure-noroot: no (unlocked)
secure-no-suid-fixup: no (unlocked)
secure-keep-caps: no (unlocked)
uid=0(root)
gid=0(root)
groups=
root@389acc394af7:~#
root@389acc394af7:~#
root@389acc394af7:~# ls /host
bin boot dev etc home lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var
root@389acc394af7:~#

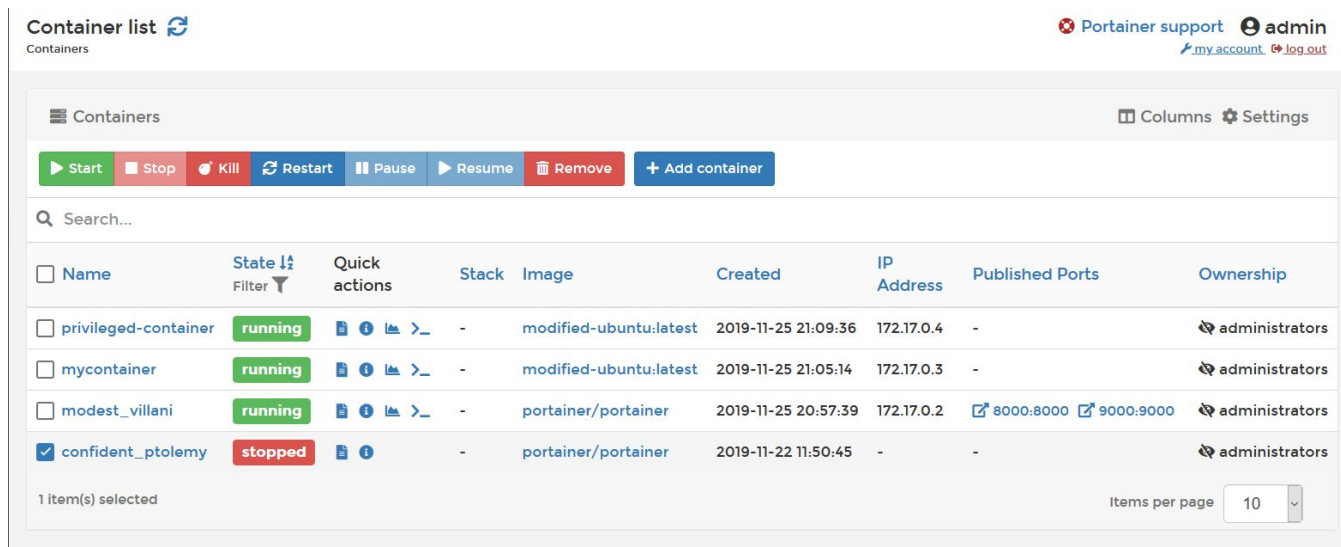
```


The container is running in privileged mode and has all capability. The host filesystem is mounted on /host directory.

A container with additional capabilities or a mounted device can be started in a similar manner.

Removing a stopped container:

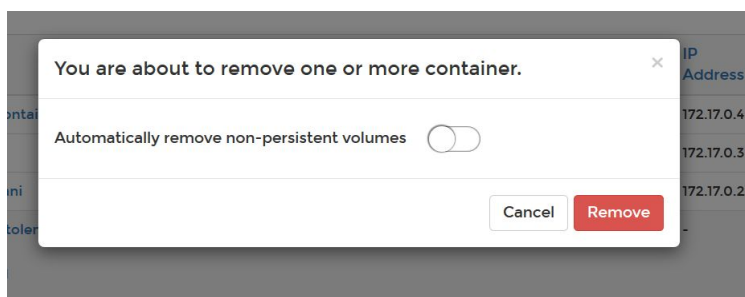
Step 1: Select the checkbox of the stopped container.



The screenshot shows the Portainer 'Container list' interface. At the top, there are buttons for Start, Stop, Kill, Restart, Pause, Resume, Remove, and Add container. Below is a search bar and a table of containers. The table has columns for Name, State, Quick actions, Stack, Image, Created, IP Address, Published Ports, and Ownership. The 'confident_ptolemy' container is selected with a checkbox. The 'State' column shows 'stopped' for this container.

Name	State	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
<input type="checkbox"/> privileged-container	running	[Icons]	-	modified-ubuntu:latest	2019-11-25 21:09:36	172.17.0.4	-	administrators
<input type="checkbox"/> mycontainer	running	[Icons]	-	modified-ubuntu:latest	2019-11-25 21:05:14	172.17.0.3	-	administrators
<input type="checkbox"/> modest_villani	running	[Icons]	-	portainer/portainer	2019-11-25 20:57:39	172.17.0.2	8000:8000 9000:9000	administrators
<input checked="" type="checkbox"/> confident_ptolemy	stopped	[Icons]	-	portainer/portainer	2019-11-22 11:50:45	-	-	administrators

Step 2: Click on the Remove button and a dialog box will appear.



Step 3: Click on the Remove button to remove the container.

Container list

Containers

Portainer support admin
Container successfully removed
/confident_ptolemy

Containers

Columns Settings

Start Stop Kill Restart Pause Resume Remove Add container

Search...

<input type="checkbox"/> Name	State <small>Filter</small>	Quick actions	Stack	Image	Created	IP Address	Published Ports	Ownership
<input type="checkbox"/> privileged-container	running	📄 🔍 🔧 🗑️	-	modified-ubuntu:latest	2019-11-25 21:09:36	172.17.0.4	-	administrators
<input type="checkbox"/> mycontainer	running	📄 🔍 🔧 🗑️	-	modified-ubuntu:latest	2019-11-25 21:05:14	172.17.0.3	-	administrators
<input type="checkbox"/> modest_villani	running	📄 🔍 🔧 🗑️	-	portainer/portainer	2019-11-25 20:57:39	172.17.0.2	8000:8000 9000:9000	administrators

Items per page 10

The container was removed successfully.

Delete unused images:

Step 1: Click on the images tab on the left panel. Tick the checkboxes of the unused images.

Image list

Images

Portainer support admin
[my account](#) [log out](#)

Pull image

Image e.g. myImage:myTag

Registry DockerHub

Image name is required.

Note: If you don't specify the tag in the image name, latest will be used.

Pull the image

Images


Settings

Remove Build a new image Import Export

Search...

<input type="checkbox"/> Id <small>Filter</small>	Tags <small>Filter</small>	Size	Created
<input checked="" type="checkbox"/> sha256:965ea09ff2ebd2b9ecec88cd822ce1...	alpine:latest	5.6 MB	2019-10-21 22:51:42
<input type="checkbox"/> sha256:54ee2a71bdefa053d212cbe2146b5...	modified-ubuntu:latest	854.7 MB	2019-11-15 11:51:35
<input type="checkbox"/> sha256:d1219c88aa219e0125b7391a922f63...	portainer/portainer:latest	80.8 MB	2019-11-06 11:02:58
<input checked="" type="checkbox"/> sha256:775349758637aff77bf85e2ff0597e...	ubuntu:18.04	64.2 MB	2019-11-01 03:50:37

Step 2: Click on the remove button.

Image list 
Images





 Pull image


Image **Registry**





 Image name is required.


Note: if you don't specify the tag in the image name, **latest** will be used.





 **Image successfully removed**
sha256:965ea09ff2ebd2b9eeec88cd822ce156f6674c7e99be082c7efac3c62f3ff652

 **Image successfully removed**
sha256:775349758637aff77bf85e2ff0597e86e3e859183ef0baba8b3e8fc8d3cba51c

Images  Settings

 Remove  Build a new image  Import  Export


 Search...














<input type="checkbox"/> Id Filter 	Tags 	Size	Created
<input type="checkbox"/> sha256:54ee2a71bdeffa053d212cbe2146b5...	 modified-ubuntu:latest	854.7 MB	2019-11-15 11:51:35
<input type="checkbox"/> sha256:d1219c88aa219e0125b7391a922f63...	 portainer/portainer:latest	80.8 MB	2019-11-06 11:02:58


The images were deleted successfully.



Listing docker networks:


Step 1: Click on the Networks tab on the left panel





portainer.io 

Home  LOCAL  Dashboard  App Templates  Stacks  Containers  Images  **Networks**  Volumes  Events  Host  SETTINGS  Extensions 

Network list 
Networks

 Remove  Add network

 Search...

<input type="checkbox"/>	Name 	Stack	Scope	Driver	Attachable	Internal	IPAM Driver	IPAM Subnet	IPAM Gateway	Ownership
<input type="checkbox"/>	bridge	-	local	bridge	false	false	default	172.17.0.0/16	172.17.0.1	 administrators
<input type="checkbox"/>	host	-	local	host	false	false	default	-	-	 administrators
<input type="checkbox"/>	none	-	local	null	false	false	default	-	-	 administrators

Items per page

Step 2: Click on any of the network to view details of the network.

Portainer supportadminmy accountlog out

Network details

Networks > bridge

Network details

Name	bridge
ID	8a7d99a4086209f325e156739fbf90df8b344ea02b8af057ededc98bd60fa8d3
Driver	bridge
Scope	local
Attachable	false
Internal	false
Subnet - 172.17.0.0/16	Gateway - 172.17.0.1

Access control

Ownership	administrators ?
-----------	------------------

[Change ownership](#)

Network options

com.docker.network.bridge.default_bridge	true
com.docker.network.bridge.enable_icc	true
com.docker.network.bridge.enable_ip_masquerade	true

Containers in network

Container Name	IPv4 Address	IPv6 Address	MacAddress	Actions
privileged-container	172.17.0.4/16	-	02:42:ac:11:00:04	Leave Network
mycontainer	172.17.0.3/16	-	02:42:ac:11:00:03	Leave Network
modest_villani	172.17.0.2/16	-	02:42:ac:11:00:02	Leave Network

The bridge network is connected to all of the three running containers.

Listing docker volumes:

Step 1: Click on the volumes tab on the left panel.

portainer.io

Volume list

Portainer support admin my account log out

Volumes

Remove Add volume

Search...

Name	Stack	Driver	Mount point	Created	Ownership
portainer_data	-	local	/var/lib/docker/volumes/portainer_data/_data	2019-11-22 11:50:55	administrators

Items per page 10

Step 2: Click on the name of the volume to view more details.

Volume details

Volumes > portainer_data

Portainer support admin my account log out

Volume details

ID	portainer_data	Remove this volume
Created	2019-11-22 11:50:55	
Mount path	/var/lib/docker/volumes/portainer_data/_data	
Driver	local	

Access control

Ownership administrators ?

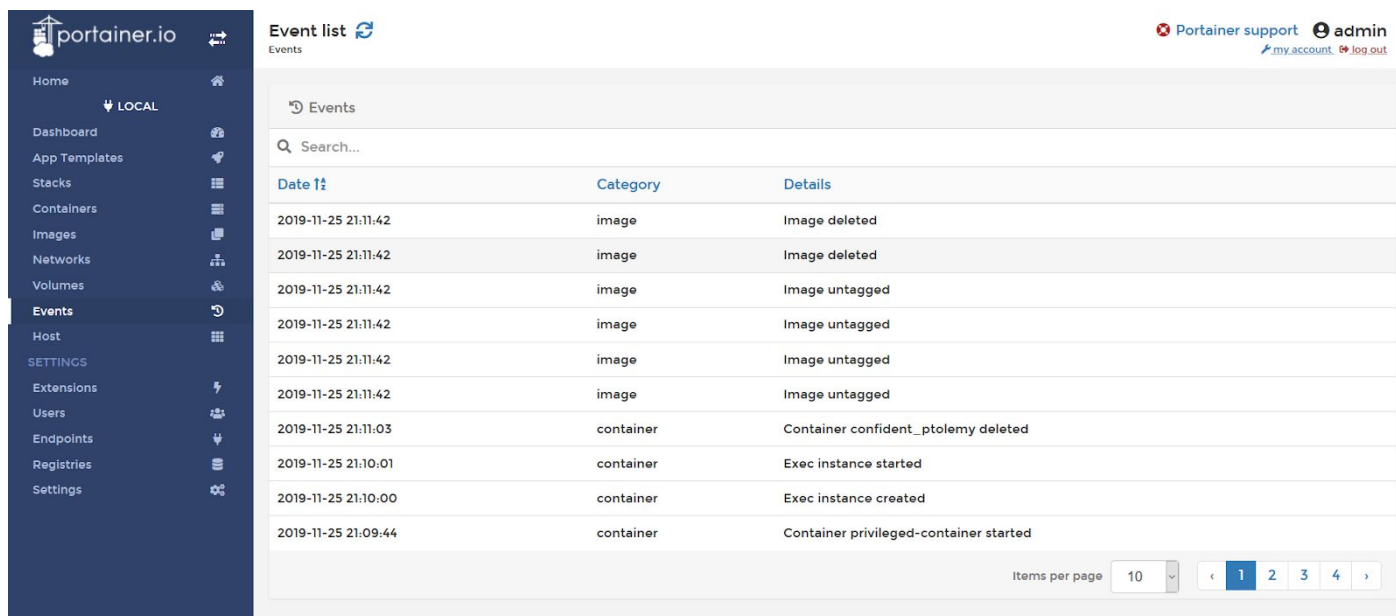
Change ownership

Containers using volume

Container Name	Mounted At	Read-only
modest_villani	/data	false

Viewing event logs:

Step 1: Click on the Events tab on the left panel.



The screenshot shows the Portainer.io web interface. On the left is a dark blue sidebar with navigation links: Home, LOCAL (expanded), Dashboard, App Templates, Stacks, Containers, Images, Networks, Volumes, Events (selected), Host, SETTINGS, Extensions, Users, Endpoints, Registries, and Settings. The main content area is titled 'Event list' and 'Events'. It features a search bar and a table of events. The table has three columns: 'Date', 'Category', and 'Details'. The events listed are:

Date	Category	Details
2019-11-25 21:11:42	image	Image deleted
2019-11-25 21:11:42	image	Image deleted
2019-11-25 21:11:42	image	Image untagged
2019-11-25 21:11:42	image	Image untagged
2019-11-25 21:11:42	image	Image untagged
2019-11-25 21:11:42	image	Image untagged
2019-11-25 21:11:03	container	Container confident_ptolemy deleted
2019-11-25 21:10:01	container	Exec instance started
2019-11-25 21:10:00	container	Exec instance created
2019-11-25 21:09:44	container	Container privileged-container started

At the bottom right of the table, there is a pagination control showing 'Items per page' set to 10, and a page navigation bar with links for 1, 2, 3, 4, and a next button.

The information regarding all the events are listed on the webpage.

Viewing information regarding the host machine:

Step 1: Click on the Host tab on the left panel.

portainer.io

Host overview

Portainer support admin

my account log out

Home LOCAL

Dashboard

App Templates

Stacks

Containers

Images

Networks

Volumes

Events

Host

SETTINGS

Extensions

Users

Endpoints

Registries

Settings

Host Details

Hostname	localhost
OS Information	linux x86_64 Ubuntu 18.04 LTS
Kernel Version	5.0.0-20-generic
Total CPU	2
Total memory	3.1 GB

Engine Details

Version	19.03.1 (API: 1.40)
Root directory	/var/lib/docker
Storage Driver	overlay2
Logging Driver	json-file
Volume Plugins	local
Network Plugins	bridge, host, ipvlan, macvlan, null, overlay

Information regarding the host machine as well as information regarding the docker engine is displayed in the Host overview section.

References:

1. Docker (<https://www.docker.com/>)
2. Portainer (<https://www.portainer.io/>)