



NA Training Partner Conference

Virtual experience | 7-9 Sept, 2021

 **Open** collaboration,
learning **anywhere** 



Installing and Configuring Quay Registries for Local Deliveries

- Local Container Registries

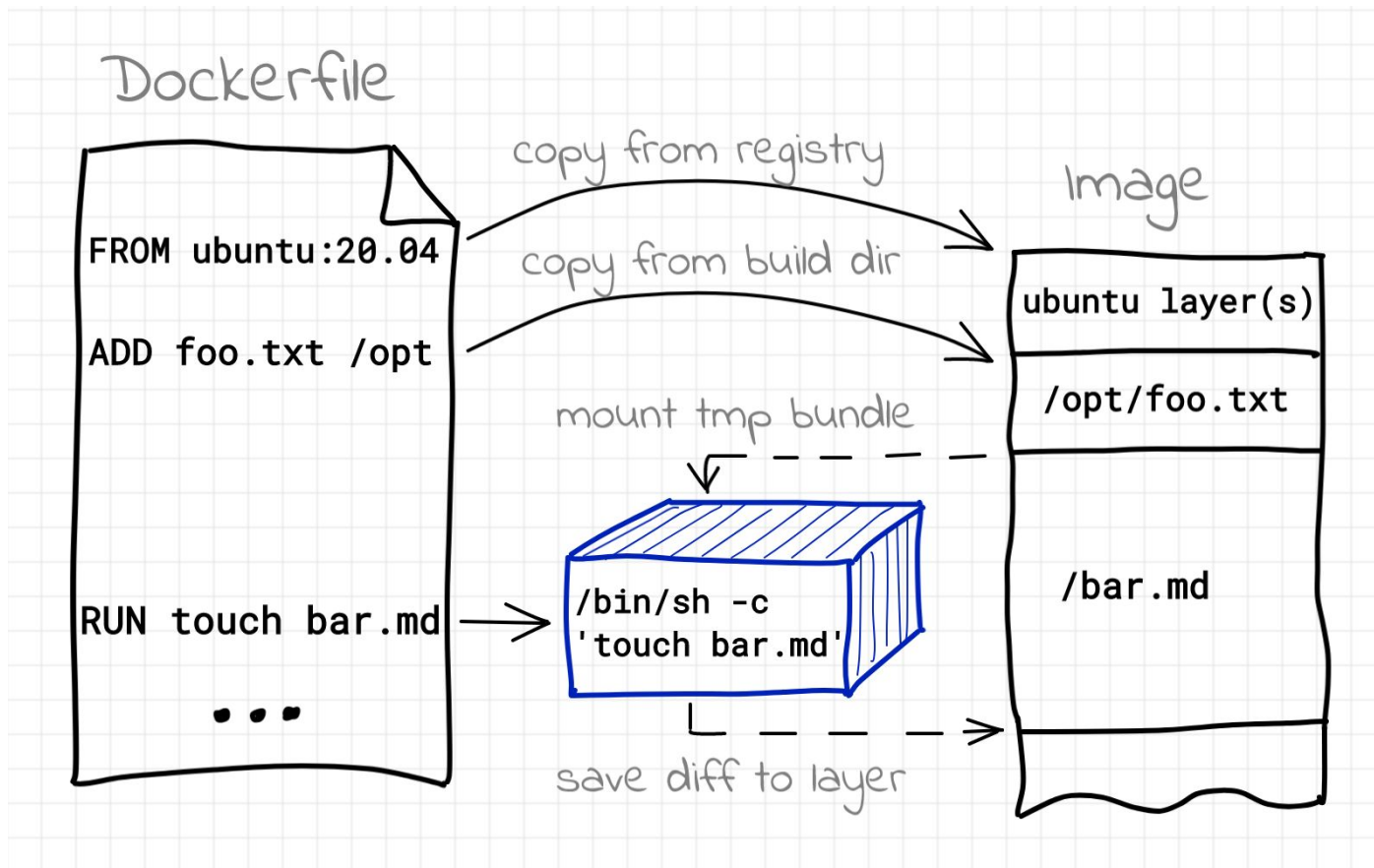
Name,

Travis Michette, North America (NA)

Agenda:

- ▶ Container Images
- ▶ Local Quay Registry
- ▶ Questions

Container Images



CONTAINER IMAGES

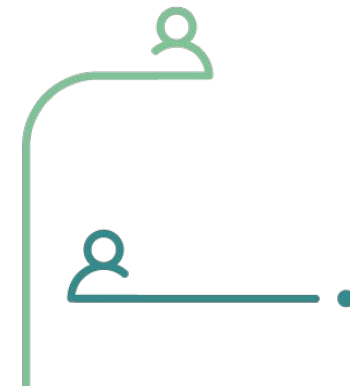


Offline Containers

BACKUP PLAN



- Local container registry needed in the event online container registries become inaccessible
- Container images can be used for demonstrations for students eliminating wasted time for environmental delays



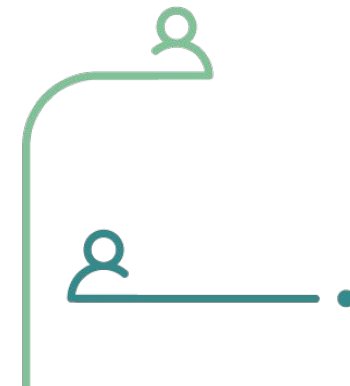
Container List - DO180 Only

OCF 4.5 Container Images

- [rhscl/mysql-57-rhel7:5.7-3.14](#)
- [quay.io/redhattraining/httpd-parent:2.4](#)
- [rhscl/mysql-57-rhel7](#)
- [quay.io/redhattraining/httpd-parent](#)
- [quay.io/redhattraining/nginx:1.17](#)
- [ubi7/ubi:7.7](#)
- [registry.access.redhat.com/rhscl/mysql-57-rhel7:latest](#)

OCF 4.6 Container Images

- [registry.redhat.io/rhel8/mysql-80:1](#)
- [registry.access.redhat.com/ubi8:latest](#)
- [registry.redhat.io/rhel8/mysql-80:1](#)
- [quay.io/redhattraining/httpd-parent](#)
- [quay.io/redhattraining/nginx:1.17](#)
- [ubi8/ubi:8.3](#)
- [quay.io/redhattraining/php-hello-dockerfile](#)

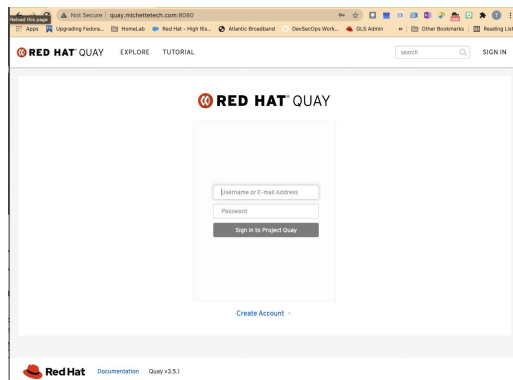


Local Quay Container Registry



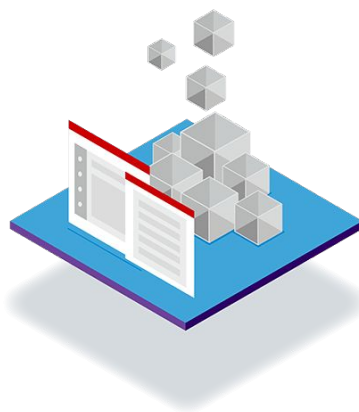
Local Quay Container Registry – Why???

Changes for OpenShift Courses



Local QUAY Registry

The local QUAY registry will look and feel like the real thing, so it is possible to show the web interface and demonstrate to students what the actual **quay.io** registry looks like and how it functions.



Container Images Available

Container images are available regardless of the status of container registries used in the book for the guided exercises (GEs) and labs.



Demonstrations **can** Continue

Having local copies of container images allows instructors to continue delivery in the event one of the cloud-based registries has problems. This doesn't resolve issues for students, but does allow the course to continue.

Quay Possibilities

Repository Mirroring

This repository is configured as a mirror. While enabled, Quay will periodically replicate any matching images on the external registry. Users cannot manually push to this repository.

Configuration

Enabled
Scheduled mirroring enabled.
Immediate sync available via Sync Now.

External Repository [quay.io/redhattraining/httpd-parent](#)

Tags [latest](#) [2.4](#)

Sync Interval [1 weeks](#)

Next Sync Date [Aug 25, 2021 8:51 PM](#) [Sync Now](#)

Robot User [travis+travis_robot](#)

Advanced Settings

Credentials [tmichett](#) [Delete Credentials](#)

Verify TLS
Require HTTPS and verify certificates when talking to the external registry.

Tag History

TAG CHANGE	DATE/TIME
Aug 23, 2021	
latest was moved to SHA256 715d244bed23 from SHA256 715d244bed23	Mon, Aug 23, 2021 4:41 PM
2.4 was moved to SHA256 b32f13fa65c2 from SHA256 b32f13fa65c2	Mon, Aug 23, 2021 4:41 PM
Aug 11, 2021	
latest was moved to SHA256 715d244bed23 from SHA256 715d244bed23	Wed, Aug 11, 2021 8:51 PM
2.4 was moved to SHA256 b32f13fa65c2 from SHA256 b32f13fa65c2	Wed, Aug 11, 2021 8:51 PM
Aug 4, 2021	
latest was created pointing to SHA256 715d244bed23	Wed, Aug 4, 2021 8:51 PM
2.4 was created pointing to SHA256 b32f13fa65c2	Wed, Aug 4, 2021 8:51 PM

REPOSITORIES

REPOSITORY NAME	LAST MODIFIED	ACTIVITY	STAR
travis / quay_ansible_mirror	Yesterday at 4:41 PM		
travis / httpd	Yesterday at 4:41 PM		
travis / test	08/11/2021		
travis / ansible	05/25/2021		

Mirrored Repositories

Ability to mirror images and schedule images to be mirror to always be in-sync with Red Hat Training

Constant Updates

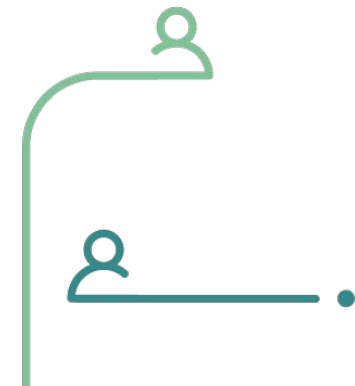
Can set up synchronization schedules to ensure mirrored packages are always updated.

Customizable

Ability to customize the registry and create multiple organizations to more closely simulate the real environment.

General Links and References

- Quay Github Project - https://github.com/tmichett/quay_lab
- Quay Local Lab Deployment PoC - https://access.redhat.com/documentation/en-us/red_hat_quay/3.5/html/deploy_red_hat_quay_for_proof-of-concept_non-production_purposes/index
- Quay Docs in Process - <https://stevsmit.github.io/quay-docs/>



DEMONSTRATION



REPOSITORY DOWN



SAY WHAAAT?!



Questions??



Thank you!

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.



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