



Introduction of SaaS "quay.io" as central container image registry.

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Agenda

- Some Words about my Company ConSol
- What does „quay“ mean and how to pronounce it?
- What is an Image Registry?
- „Red Hat Quay“ vs „quay.io“
- The Scenario / Requirements for a Central Image Registry
- Evaluation and Usage Concept
- Organizations, Teams, Users and Robot Accounts
- **Live Demo!**
- Q&A



ConSol Portfolio



IT Consulting



IT Solutions



Software Engineering



IT Operations



- Red Hat zertifizierter Premier Business Partner Solution Provider mit langjähriger Erfahrung als ISV & CCSP Partner.
- Langjährige Projekterfahrung mit Fokus auf Cloud- & Container Plattform Lösungen.
- Top Konditionen für Subskriptionen.



What does „quay“ mean and how to pronounce it?

Definition of 'quay'

quay

in American English

(ki ; keɪ ; kweɪ )

NOUN

a wharf, usually of concrete or stone, for use in loading and unloading ships

Webster's New World College Dictionary, 4th Edition. Copyright © 2010 by Houghton Mifflin Harcourt. All rights reserved.

Word origin

ME *kei* < MFr *cai* < Celt (as in Welsh *cae* & Bret *kai*, enclosure) < IE base **kagh-*, to enclose > hedge: E sp. infl. by Fr *quai* (OFr *cai*), of same orig.

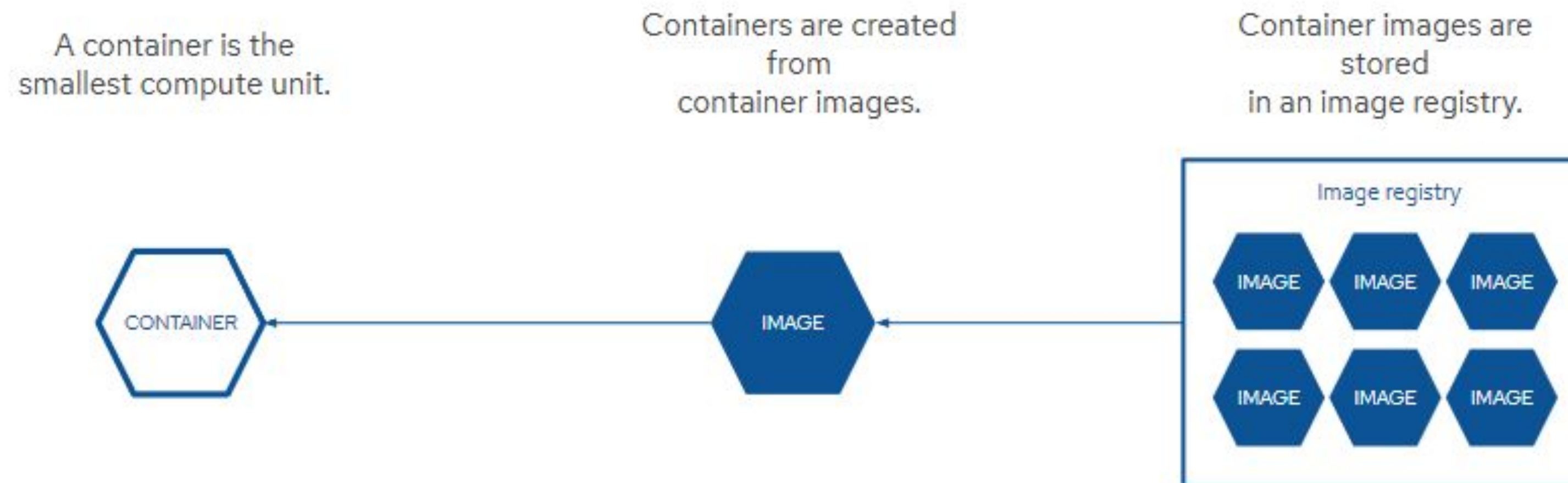
Source: <https://www.collinsdictionary.com/us/dictionary/english/quay>

Word Frequency ●●●●●



Source: Travel mania/Shutterstock.com

What is a container image registry?



If you're doing containers and Kubernetes,
you need a container image registry.

Red Hat Quay vs. quay.io

Red Hat Quay overview





Upstream Project:
<https://www.projectquay.io/>



Red Hat Quay vs. quay.io

Red Hat Quay overview

Red Hat Quay works best with OpenShift



Red Hat Quay vs. quay.io

Red Hat Quay overview

One product, flexible purchasing models



Enterprise-grade
container registry

- Full-featured enterprise product
- Runs both on-prem or on public cloud
- Deployed and operated via Kubernetes operators
- Flexible configuration options
- Maintained by the customer
- Premium Red Hat Support

SELF-MANAGED



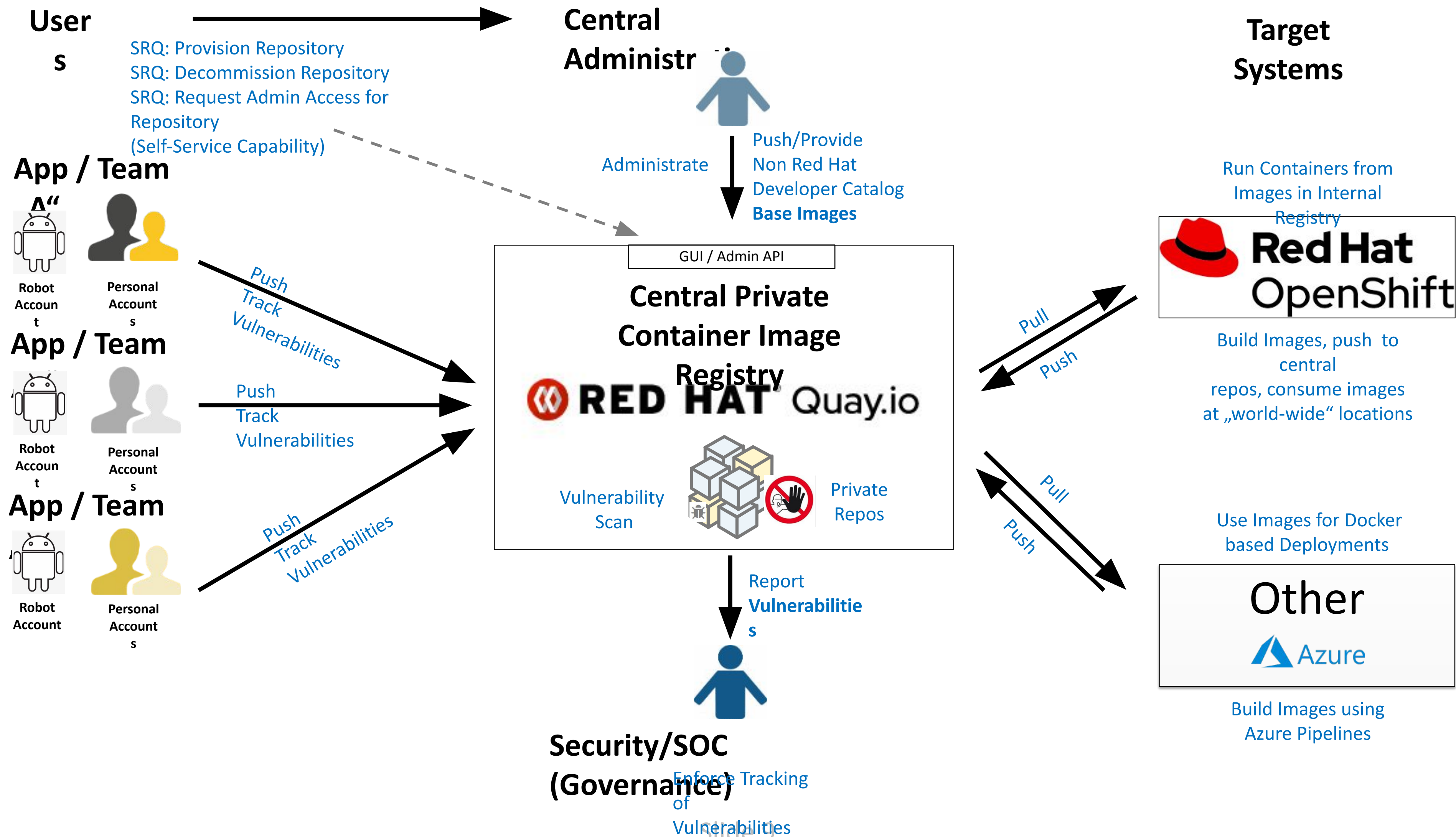
Hosted, multi-tenant
SaaS offering

- Free unlimited public repositories
- Private repositories available via plans
- Self-service access
- Monthly credit card payment
- Maintained by Red Hat
- Support included in paid plans

HOSTED SERVICE



The Scenario / Requirements for a Central Image Registry



Evaluation and Usage Concept.

- Cost free Red Hat SSO account required.
- All “quay.io” plans come with a free 30 days evaluation period.
Credit card required!
- Organization created based on plan.
- Example organization
=> evaluate requirements of scenario.
- Evaluation results
=> basis for the usage concept.
- An example organization “**consolevalorg**” created for the “Anwender Treffen”

The top screenshot shows the 'Account Plan' page for organization 'consolevalorg'. It features a green banner indicating a free trial until April 6, 2022. A donut chart shows 'Repository Usage' at 0 / 10. A table lists available plans:

Plan	Private Repositories	Price	Change
Open Source	0	\$0 / mo	Change
Micro	10	\$30 / mo	Cancel

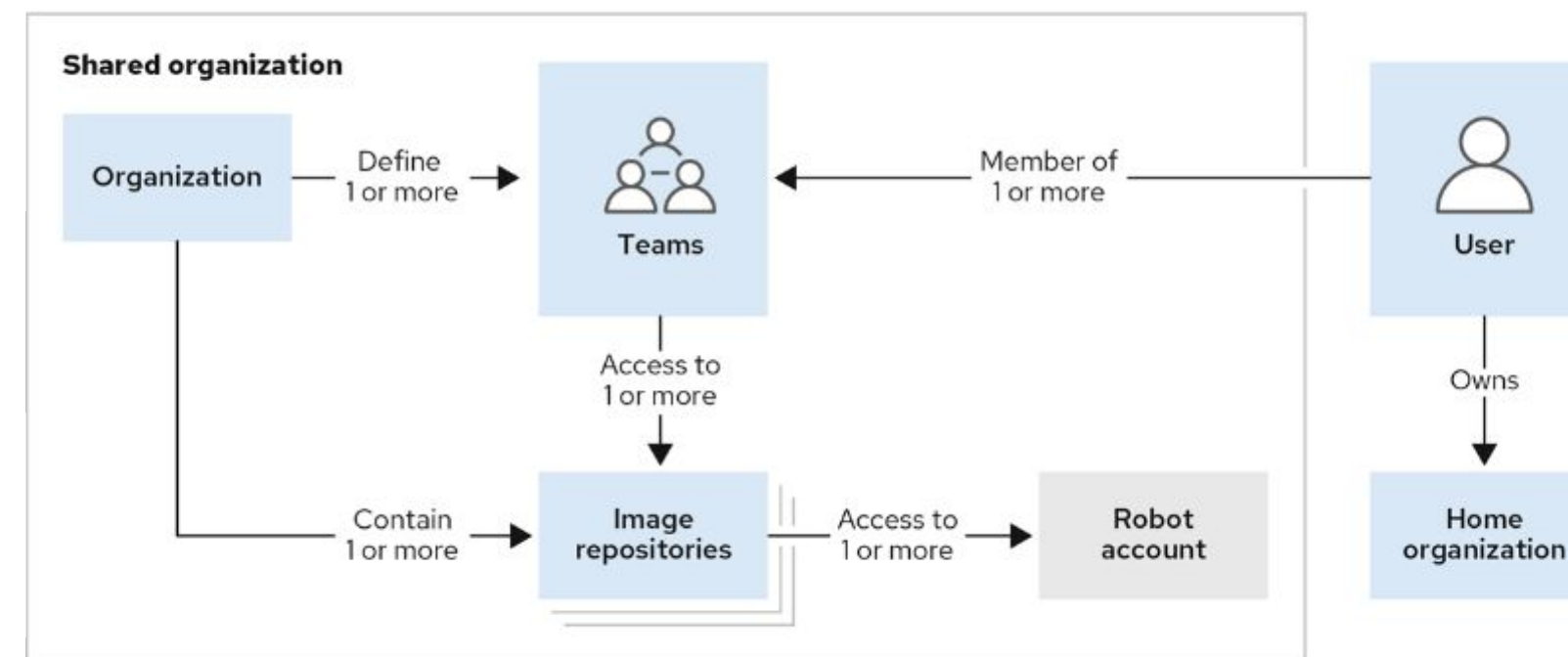
The bottom screenshot shows the 'Organization Settings' page for 'consolevalorg'. It displays the 'Namespace' as 'consolevalorg' and the 'Avatar' as a purple circle with a white 'C'. A note states: 'Avatar is served by Gravatar based on the andreas.letsche@web.de e-mail address.'

Evaluation and Usage Concept.

- **Naming conventions** (OpenShift projects, repos, teams, robot accounts) are very important
 - Transparency
 - Automation
 - Governance
- **Repo Metadata and Robot Account credentials** should be easy to access
 - Increases acceptance on developer side.
 - Provided as ConfigMap and Secret in the OpenShift projects when provisioning a repo.

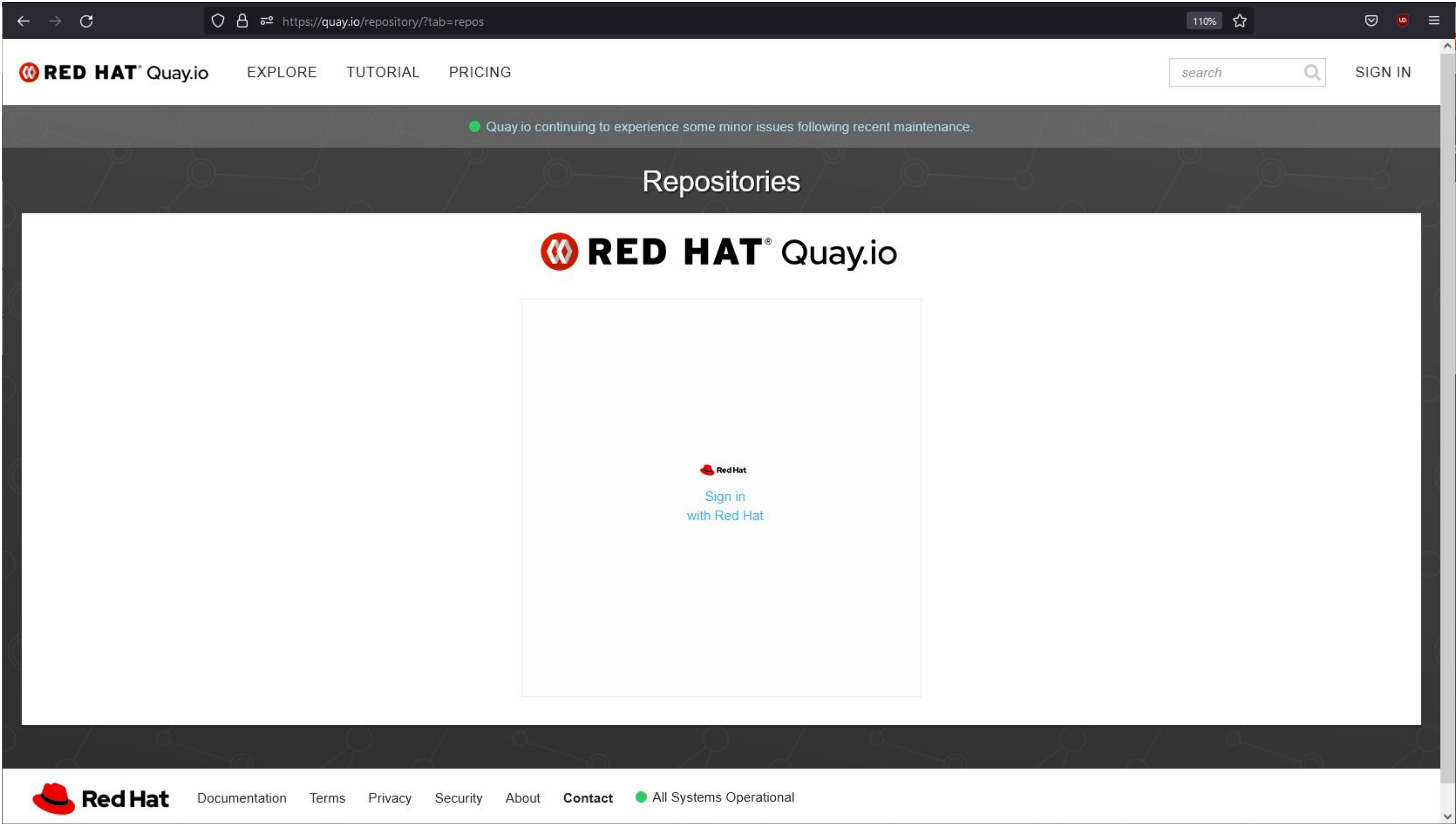
Contents	
1	Introduction 4
2	Main Use Cases and Stakeholders 4
2.1	Users 4
2.1.1	Personal Accounts 5
2.1.2	Robot Accounts 5
2.2	Central Administration 5
2.3	Target Systems 6
2.4	Security / SOC 6
3	Plan 6
4	Repository Naming Conventions 7
4.1	Base Images 7
4.2	Self-developed/-maintained Images 8
4.3	Of-The-Shelf (Third Party) Application Images 8
5	Central Administration 9
5.1	Initial setup 9
5.1.1	„quay.io Teams “ 9
5.1.2	Organization 9
5.1.2.1	Default Permission 10
5.1.3	Monitoring 10
5.2	Standard Administration Tasks 10
5.2.1	Repository 10
5.2.1.1	Create 10
5.2.1.2	Delete 23
5.2.1.3	Change Settings 23
5.2.2	“non Red-Hat” Container Images 24
5.2.2.1	(Initially) Provide “non-Red-Hat base images” 24
5.2.2.2	Update base images 25
5.2.3	“quay.io Team” 26
5.2.3.1	Create 26
5.2.3.2	Change Options for “quay.io team” 26
5.3	“Special” Administration Tasks 28
5.3.1	Customizing Invoices 28
6	Use of “quay.io” from OCP projects 28
6.1	Admin Use Cases 28
6.1.1	Request Provisioning of a new Repository 28
6.1.2	Request Decommissioning of an existing Repository 29
6.1.3	Managing “quay.io team members” 29
6.1.4	Request Admin Access for an already existing Repository 32
6.2	Standard (DevOps Team) Use Cases 32
6.2.1	Pushing Container Images 32
6.2.1.1	Manual Process 33
6.2.1.2	Process on OCP (OpenShift) 35
6.2.2	Pulling Container Images 41
6.2.2.1	Manual Process 41
6.2.2.2	Process on RRPS CP (OpenShift) 42
6.3	Security Scanning 50
7	Table of Figures 52
8	Bibliography 53

Organizations, Teams, Users and Robot Accounts



- **Organizations** provide a way of sharing repositories under a common namespace that does not belong to a single user, but rather to many users in a shared setting (such as a company).

Live Demo!





Thank you!



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