

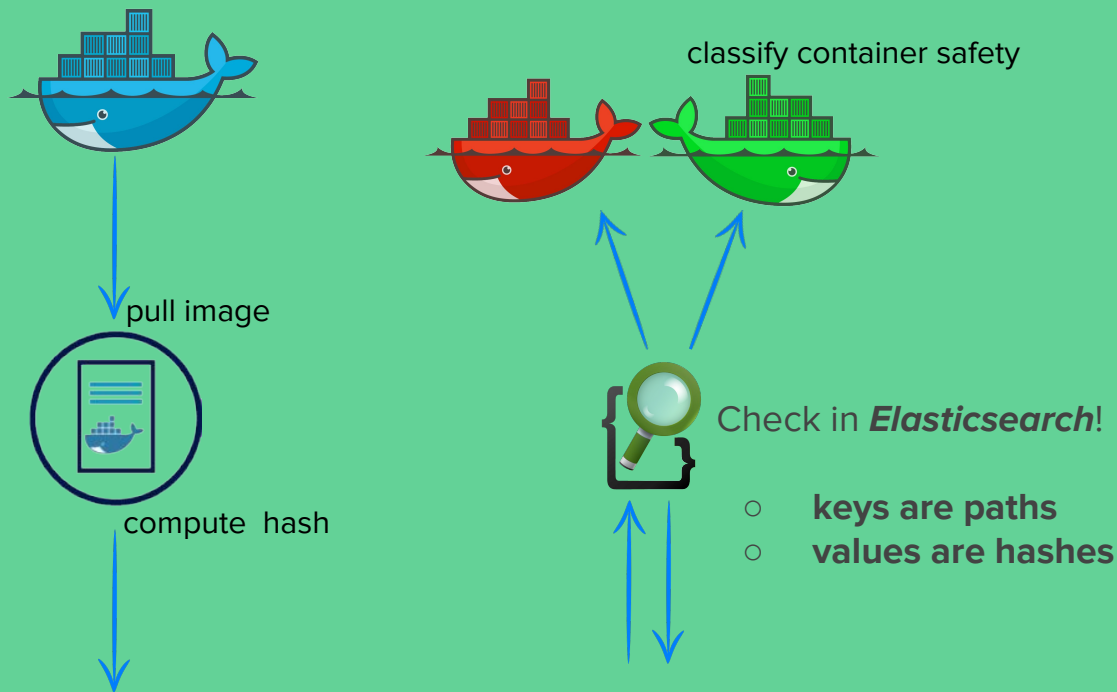
Container Code Classification

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Mentor: Sastry S Duri
(IBM Research)

Reminder:

1. Retrieve
2. Hash
3. Compare
4. Classify



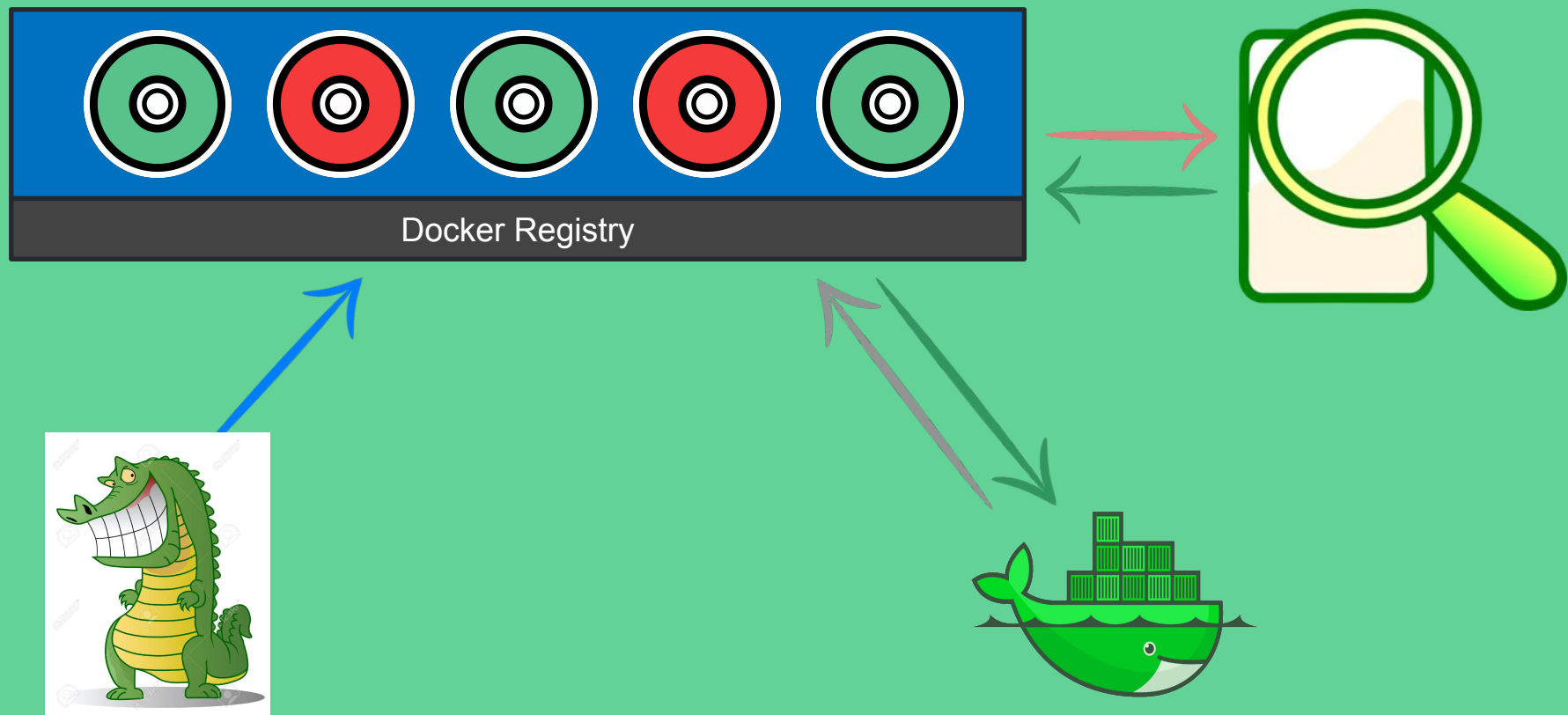
```
FAAAAAICAAARUAAAAAAAAQAAAAACEAAQQCAAAQAAkAAEAQAAJAAAgEAAgIIABIQA  
AAAAoEBAgAAABABAAAAAAAAEAgAAgAAACAIAAAEAAAAAAAAABAAACAAAAAAgDAA  
AAAAAAAgAAABAAgAAAACQAAIAAAAAAAAAAAAAACAAIEAAAAAgwAAAAQAAAAAQAA  
QBAEAAKAACAAAAAAgDAAAAAAAAA
```

Classifying safety

Docker Image or container







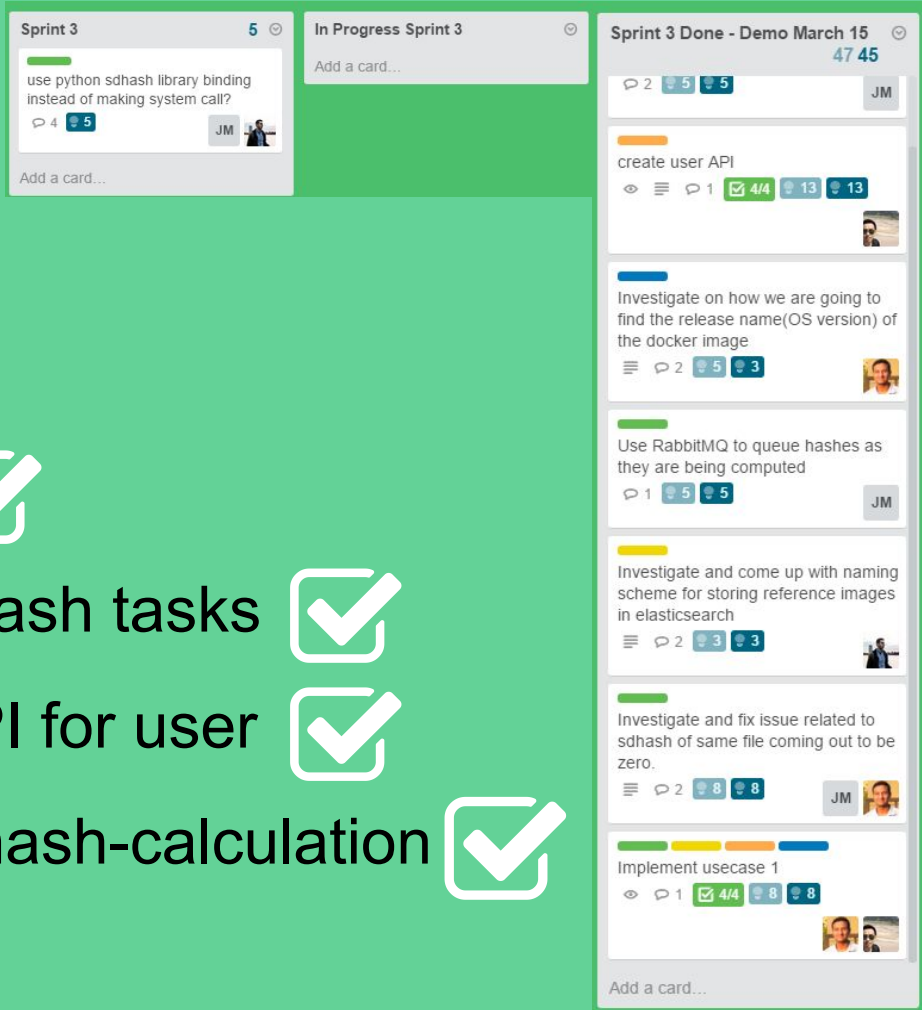
Usecase 1: Suspicious Images



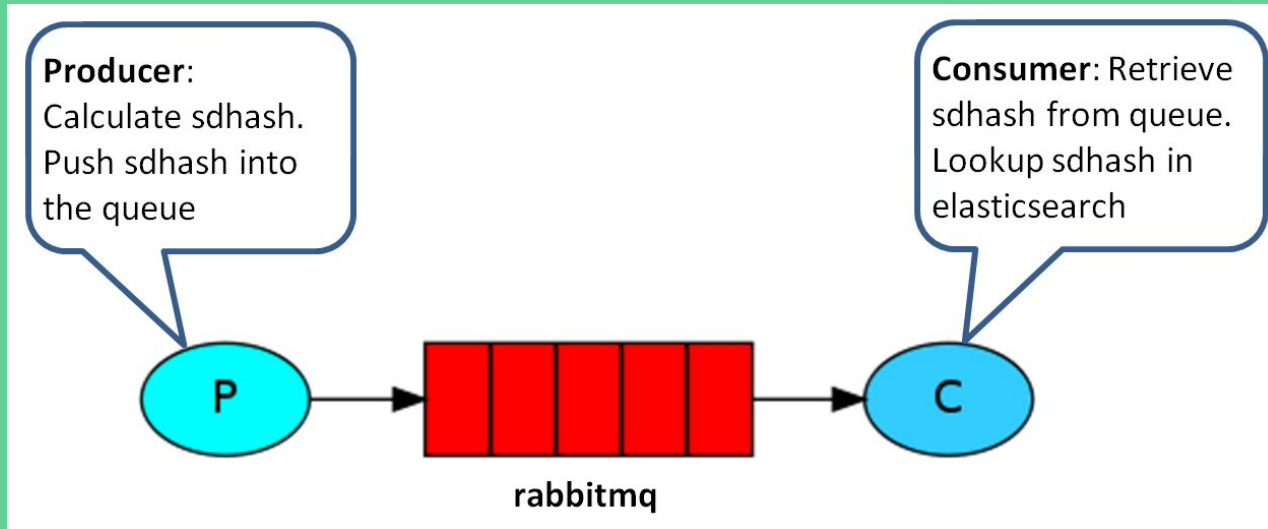
What we've done:

So Far (Sprint 3):

- Implemented use case 1 
- Setup RabbitMQ to Queue hash tasks 
- Implemented part of flask API for user 
- Integrated image push with hash-calculation 

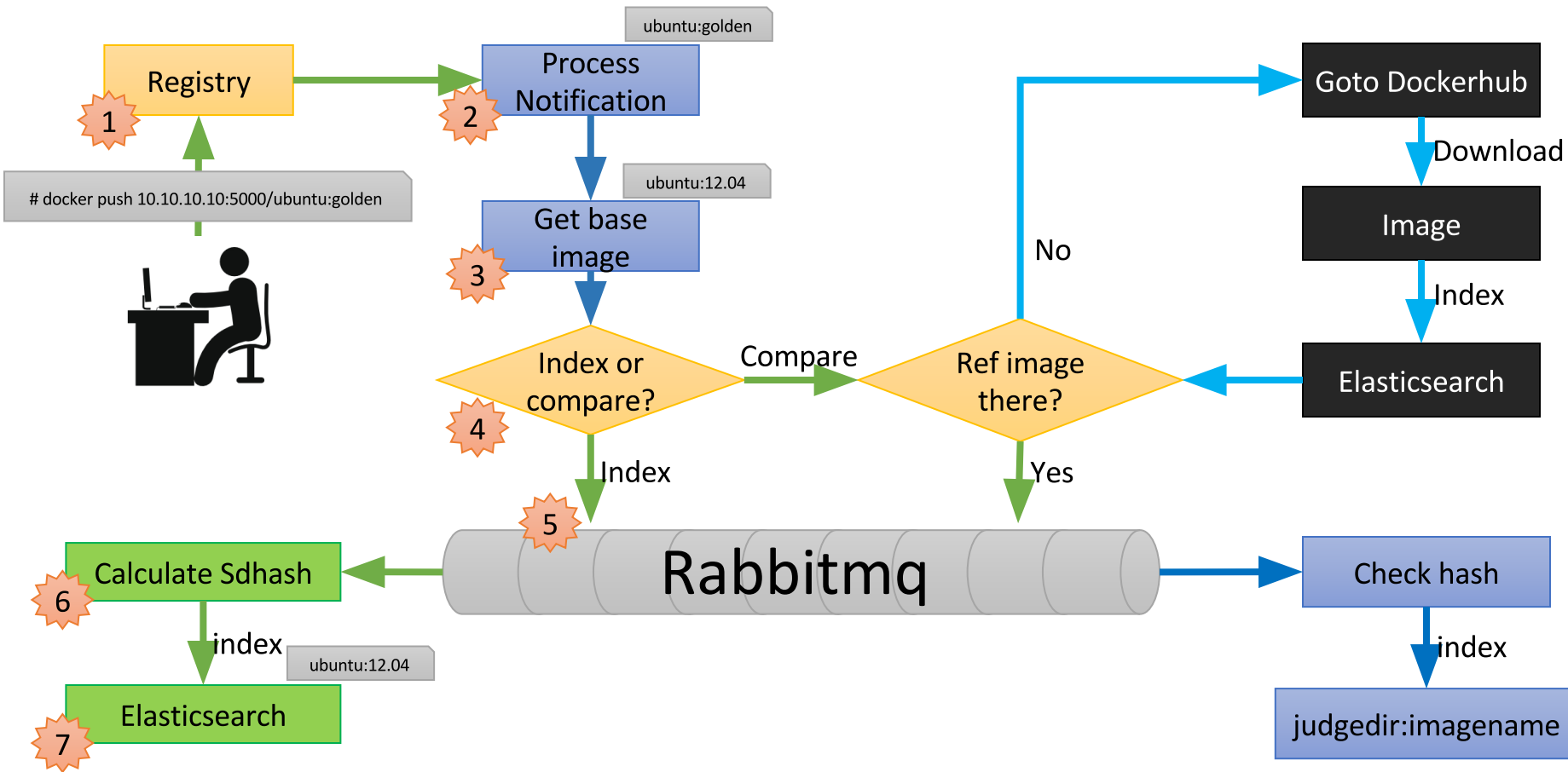


On RabbitMQ:

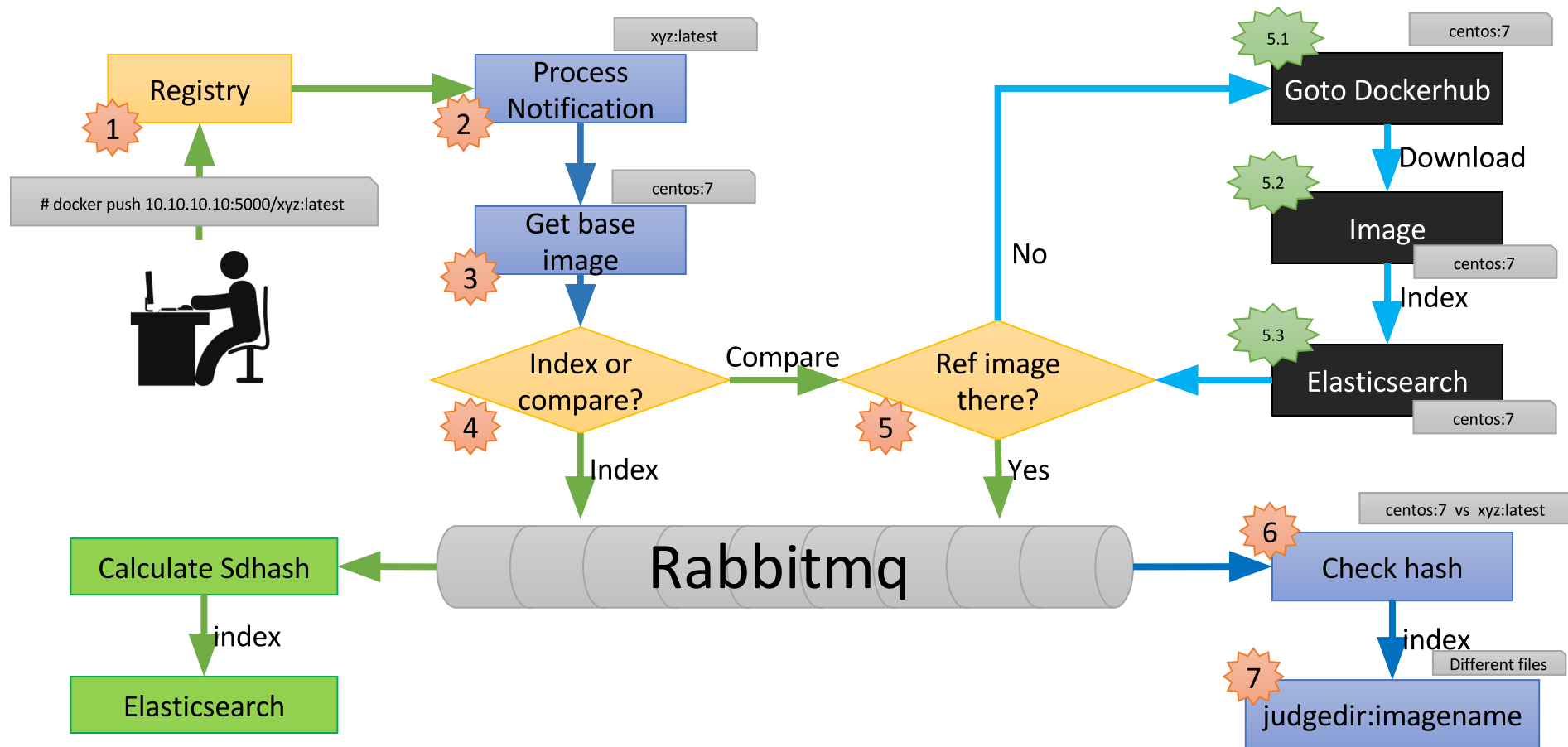


- Producer and consumer **run in parallel**
- There can be multiple producers and consumers for single queue
- RabbitMQ server can be hosted separately from producers and consumers

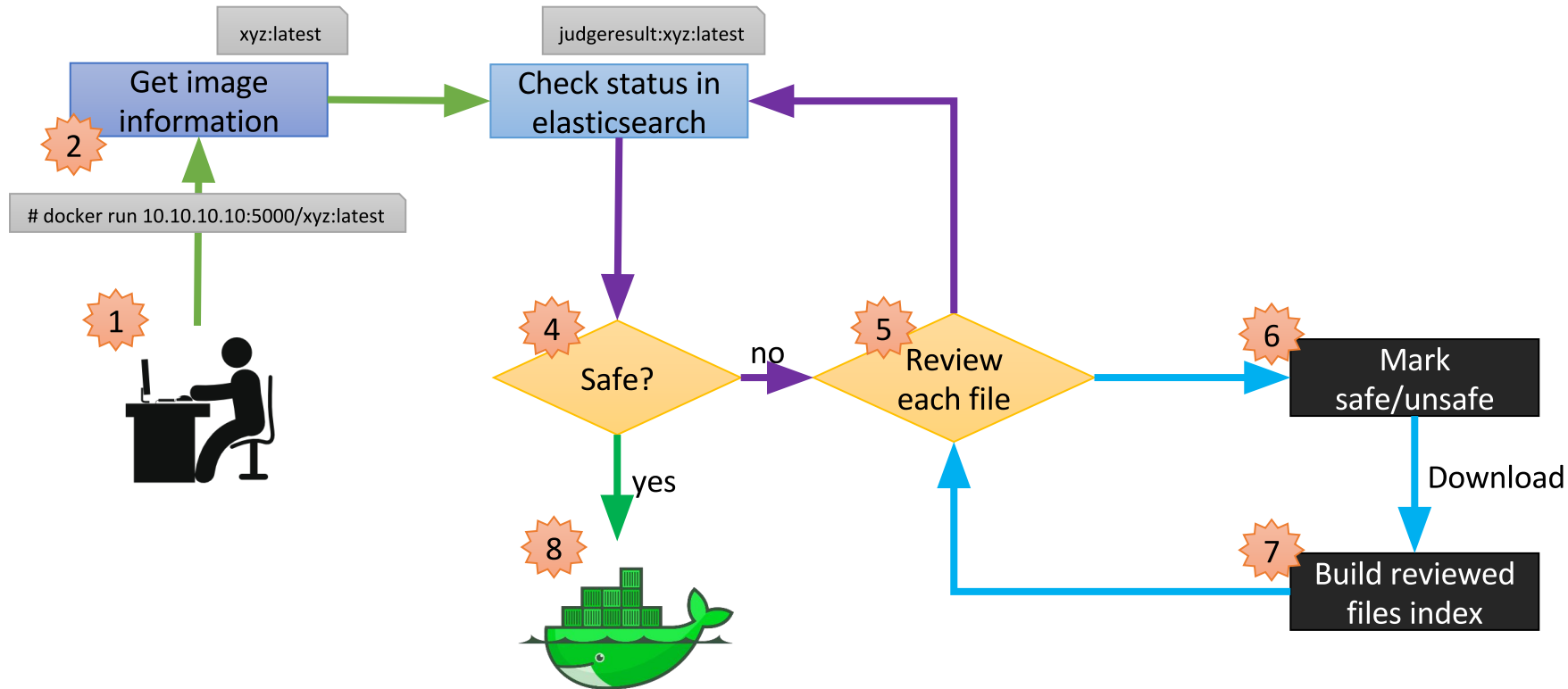
Flow for indexing an image



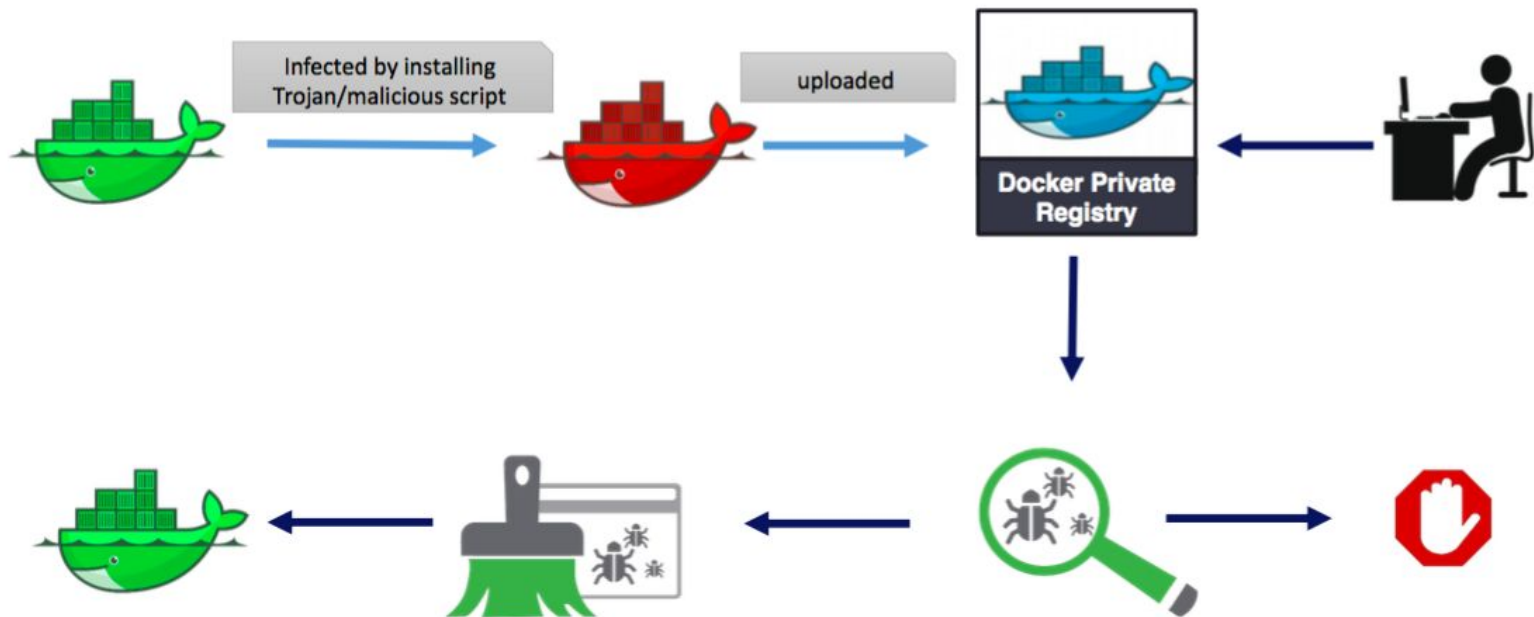
Flow for image upload



Flow for launching new container



Demo flow



[illegible]

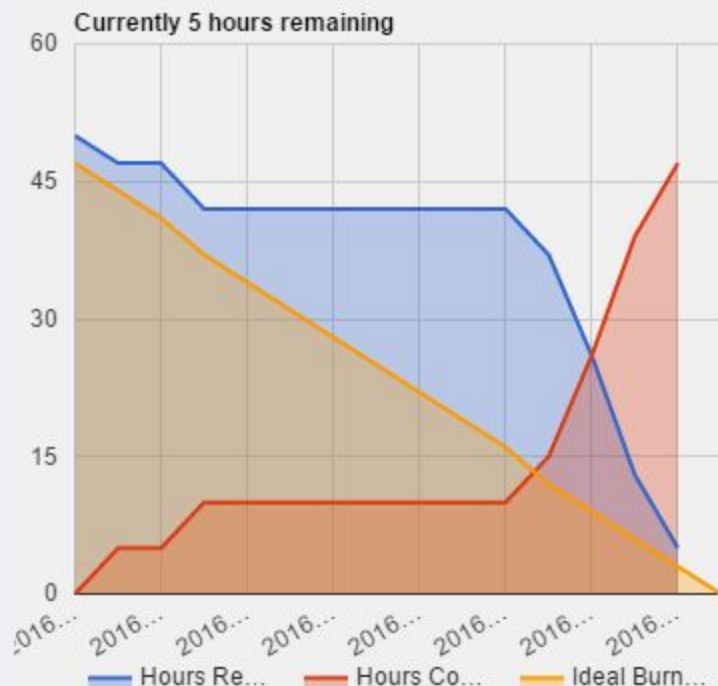
Video: <https://www.youtube.com/watch?v=srQAZGfY8Ec>

Next sprint

- Implement use case 2 (docker containers)
- Provide more API and web UI
- Modify “docker run” to check image status
- Alternatives to avoid shortcomings of sdhash
- Containerize our application deployment



Burndown Chart



Change Chart Type



Summary stats



Total Cards:	8
Remaining Cards:	1
Done Cards:	7
Percent of cards done:	87%
Hours at start:	50 (edit)
Hours est total:	50
Hours remaining:	5
Hours done:	47
Percent of hours done:	90%
----	----
Days Elapsed	14
Daily Burndown	3.36
Est. Days Left	1
Est. Completion Date	03/15/16

[edit chart data](#) | [board settings](#) | [share](#)

If this Trello Board represents a Sprint or a Product Backlog, adding a start and end date will allow the x-axis to be more accurate and a desired-velocity line to be drawn.

Date Range: to

Thank you
&
Q/A