



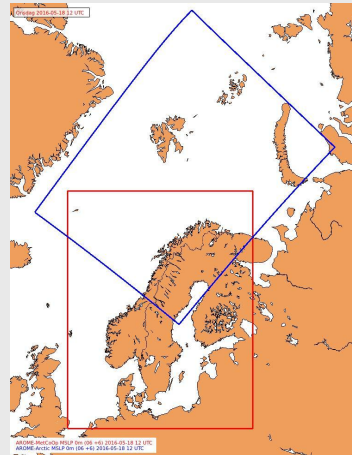
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Scheduling parallel production in the world of containers

3.3.2017

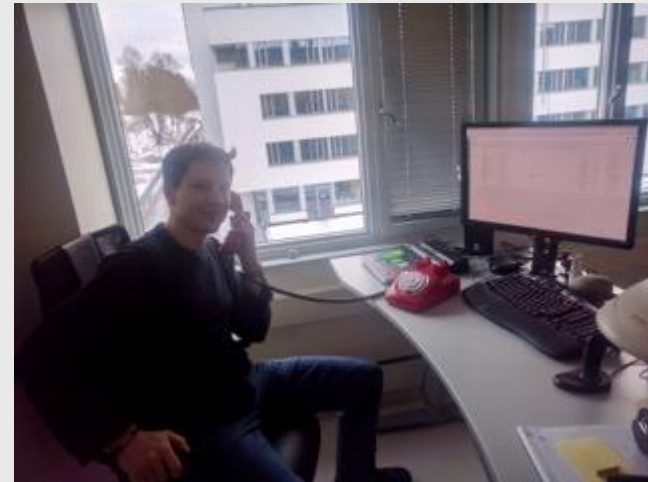
About

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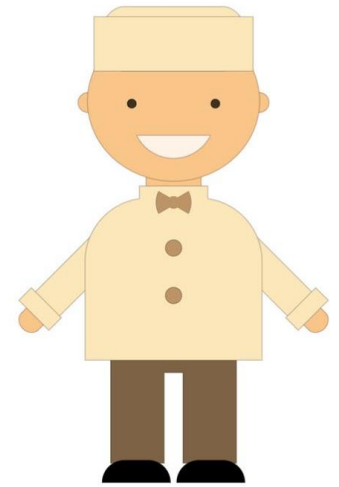


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What are containers

Containers are a method of operating system virtualization that allow you to run an application and its dependencies in resource-isolated processes.

<https://aws.amazon.com/containers/>

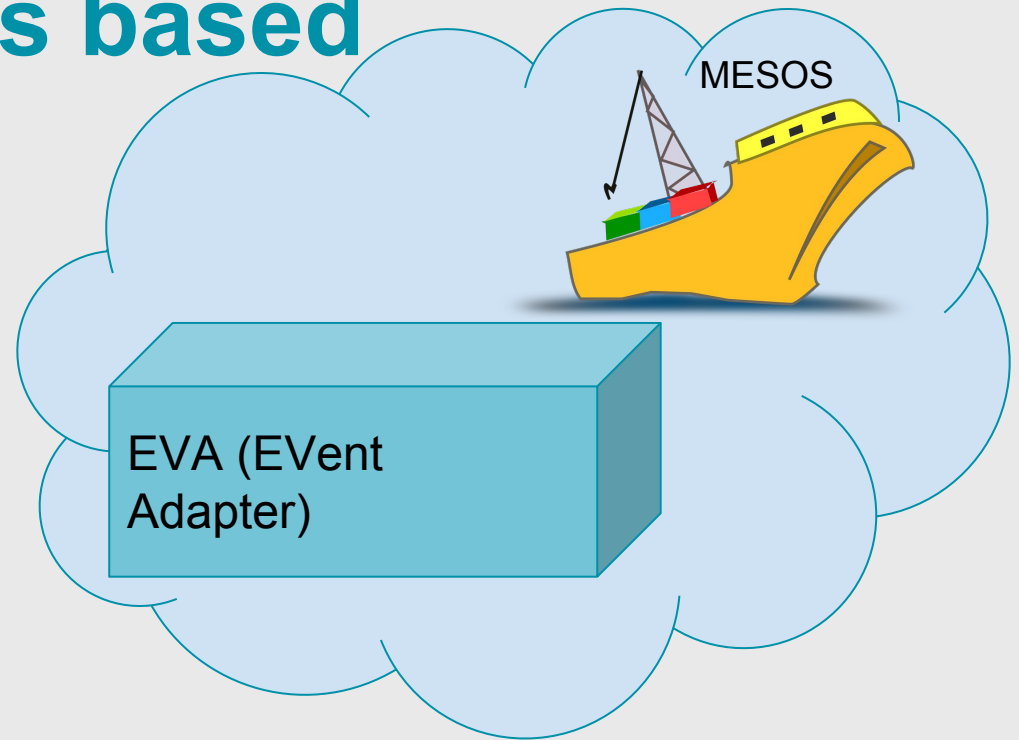


Productstatus based architecture

Productstatus



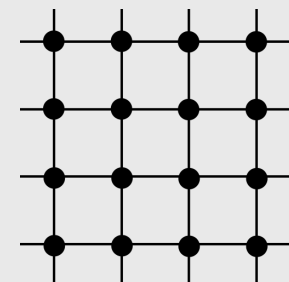
RESTful API Message queue

 kafka

ECMWF
receiver service

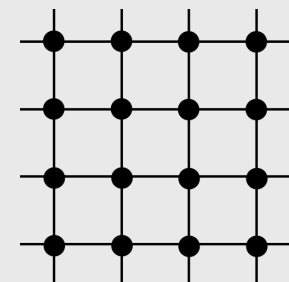
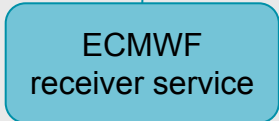
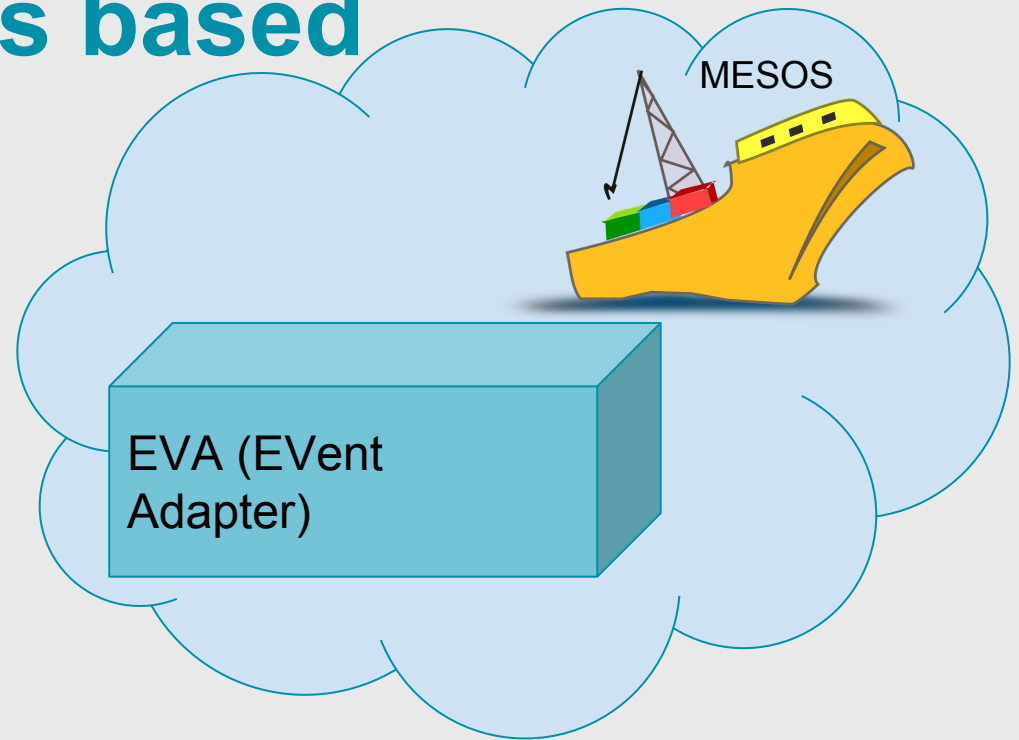
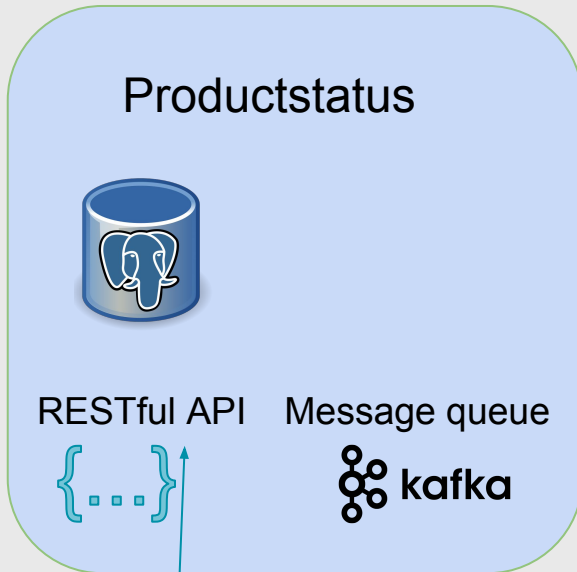
Radar

ecFlow



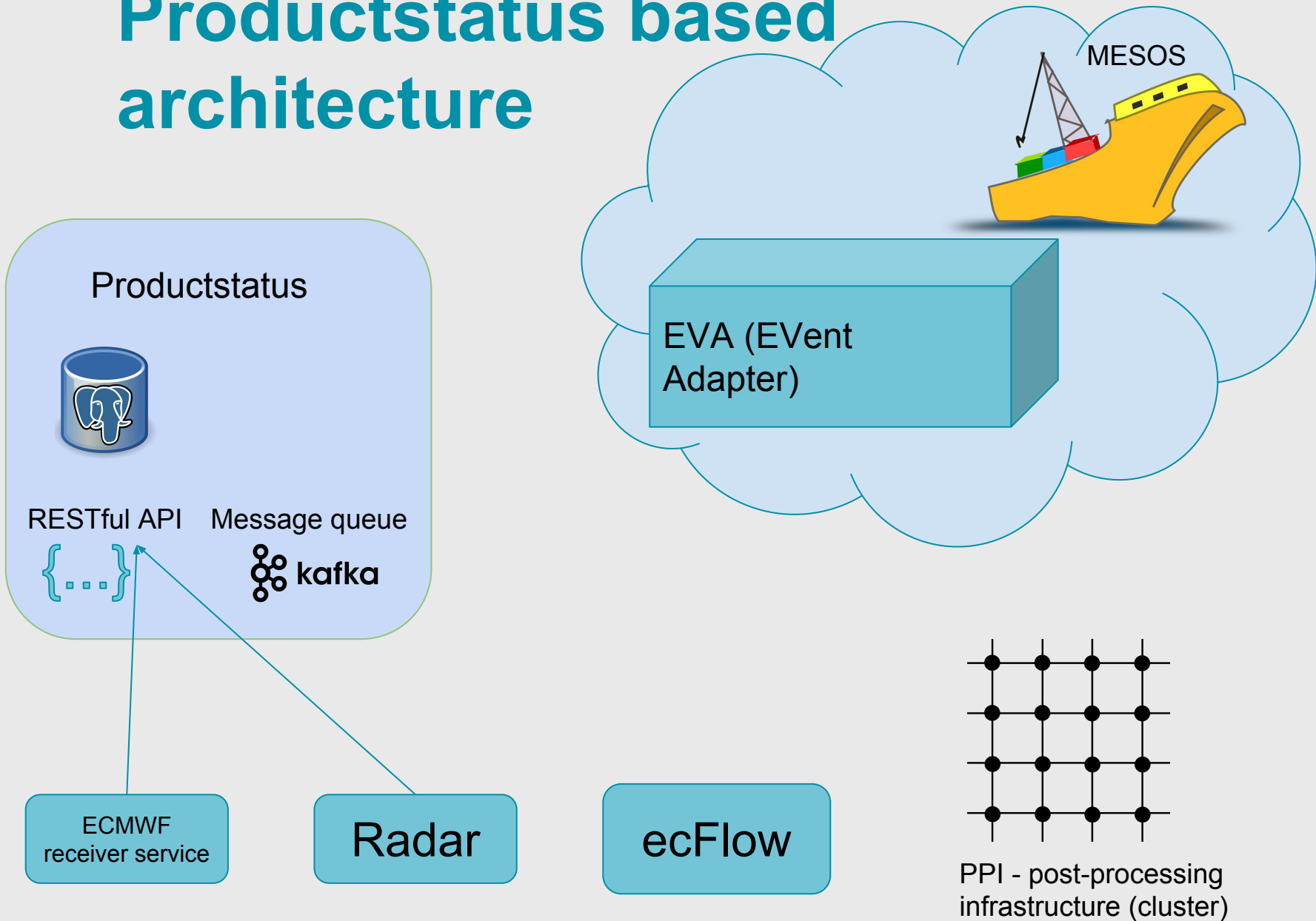
PPI - post-processing
infrastructure (cluster)

Productstatus based architecture

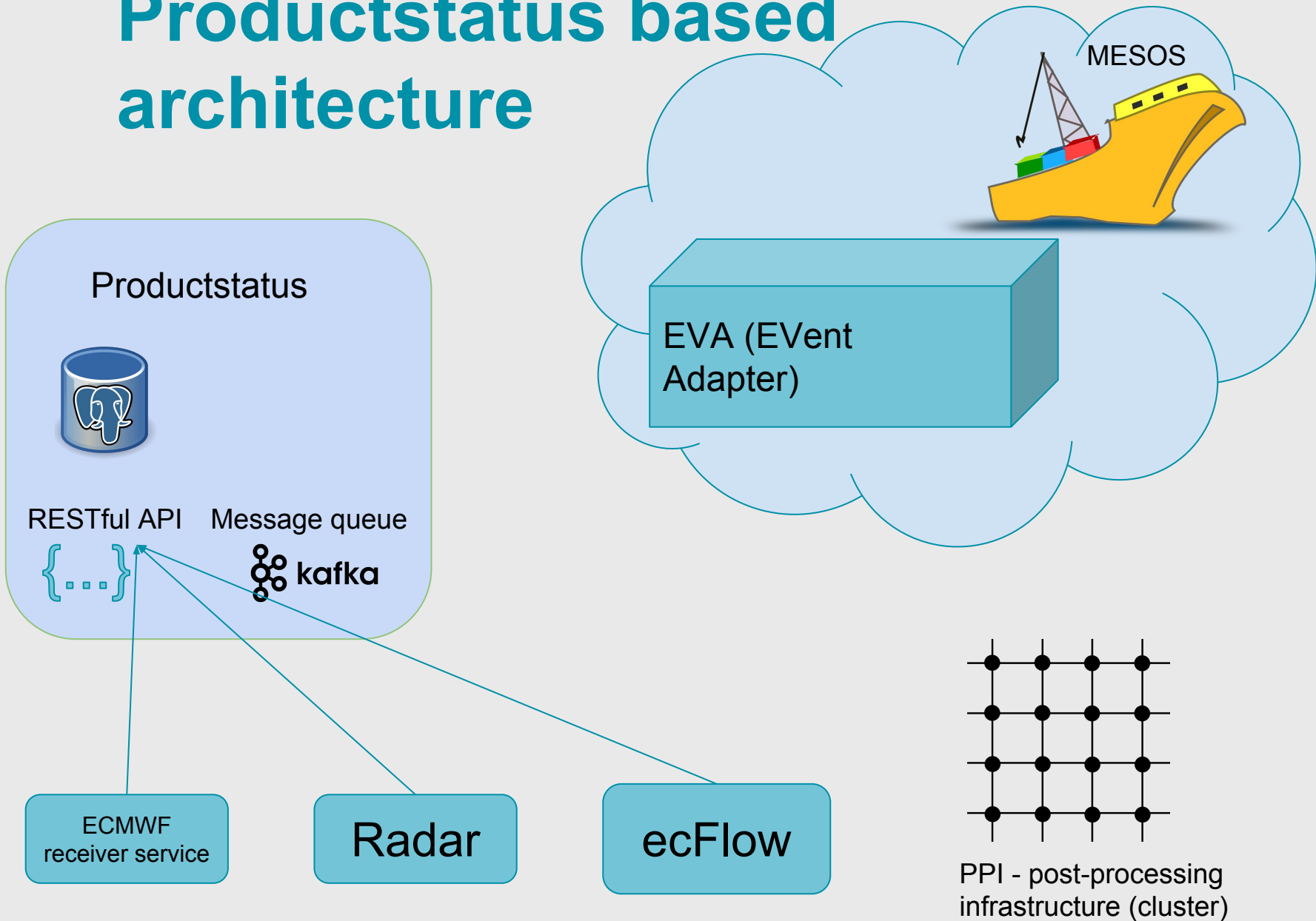


PPI - post-processing infrastructure (cluster)

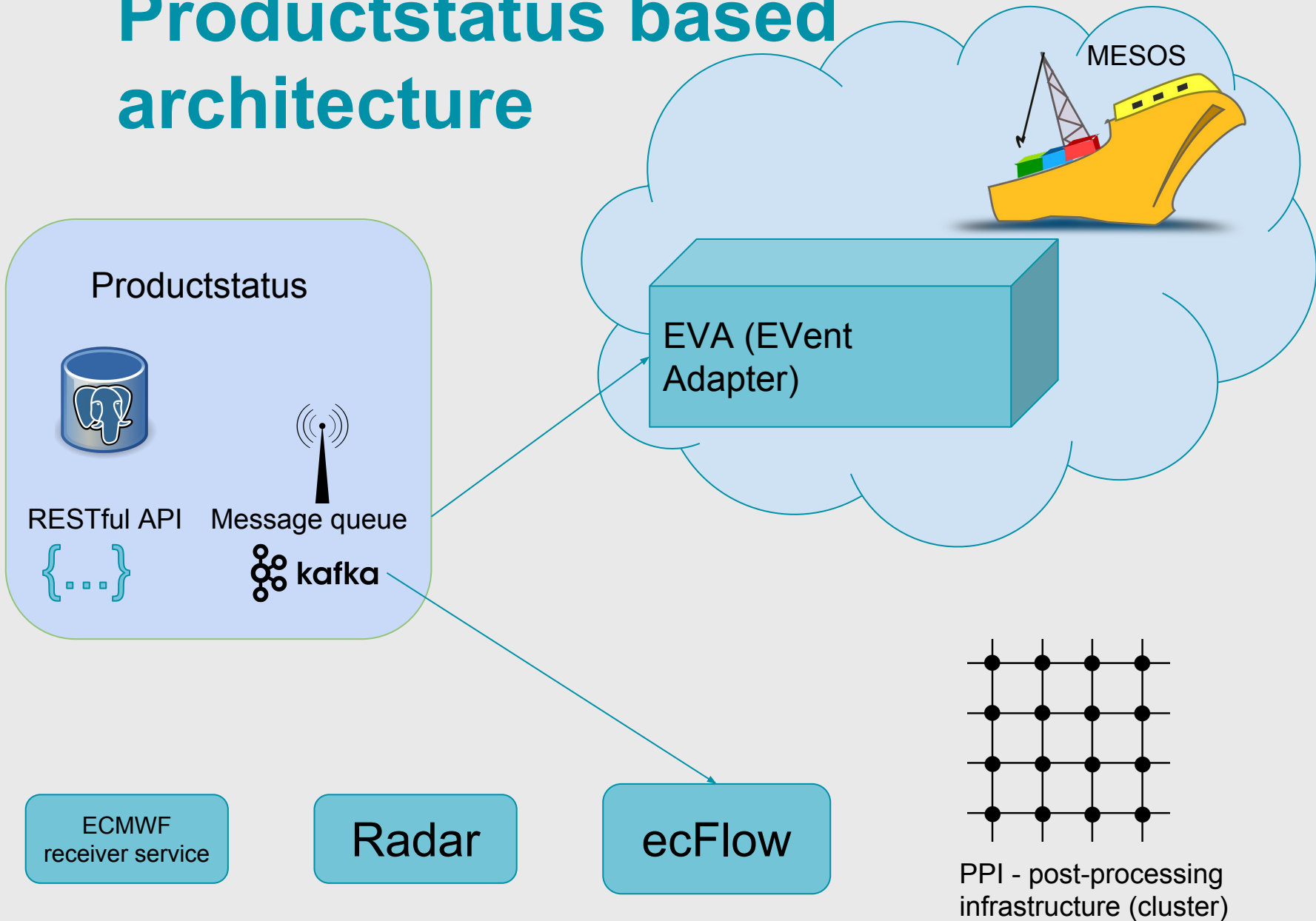
Productstatus based architecture



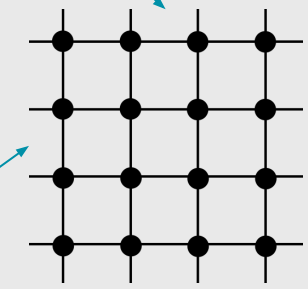
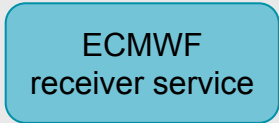
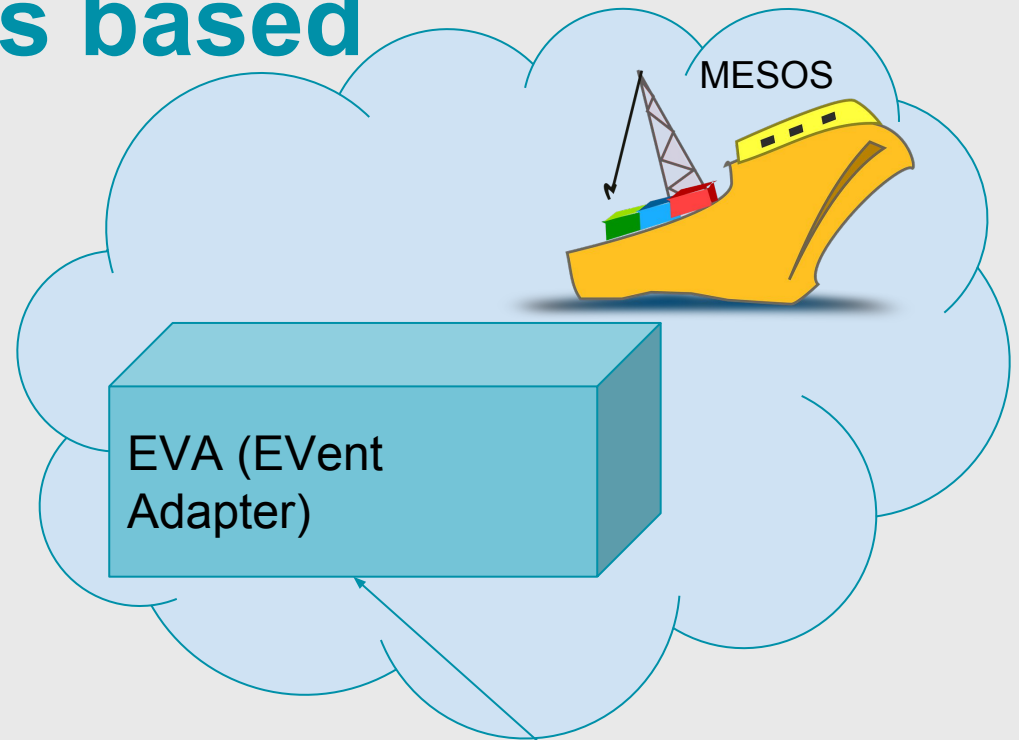
Productstatus based architecture



Productstatus based architecture

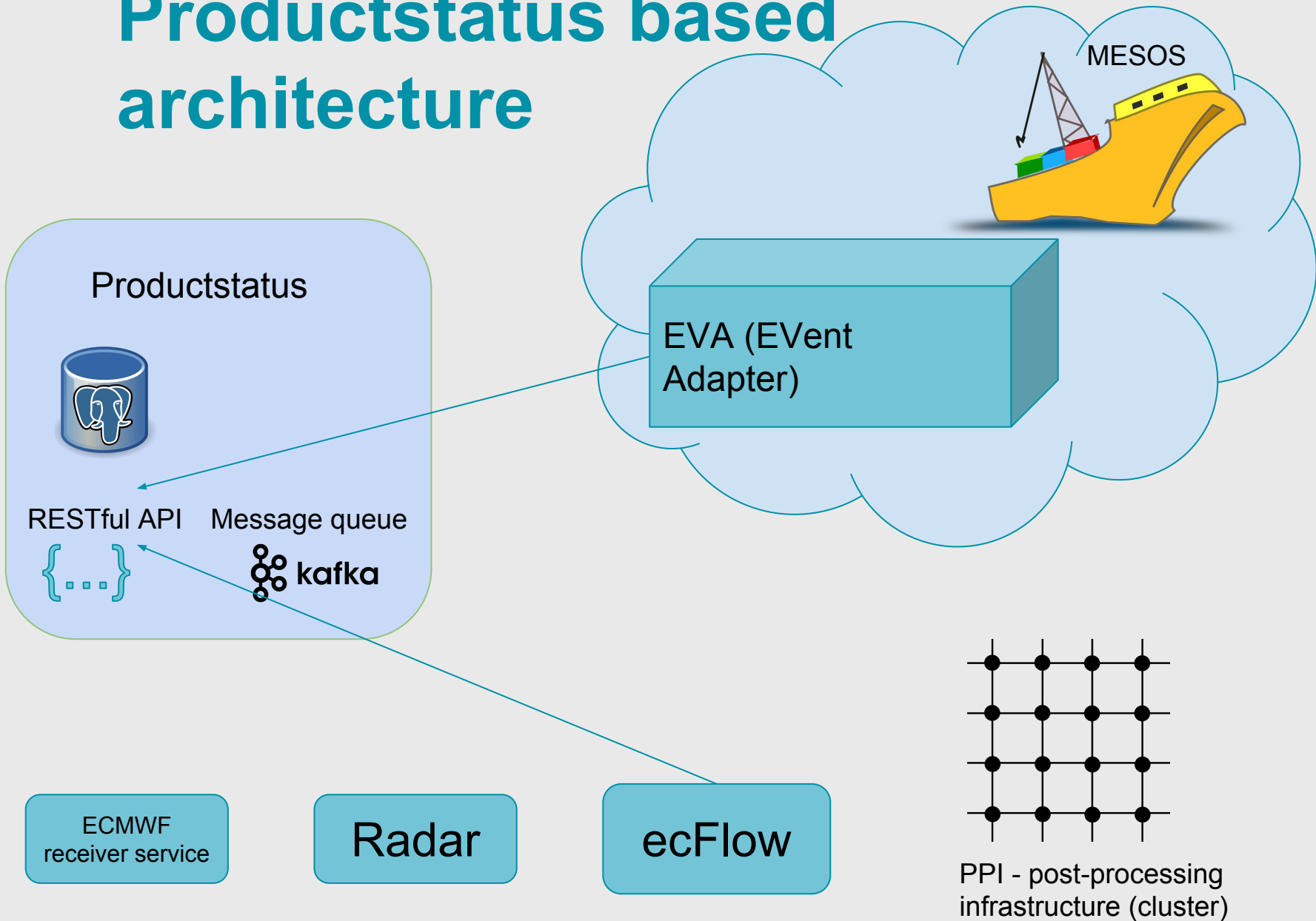


Productstatus based architecture



PPI - post-processing infrastructure (cluster)

Productstatus based architecture



Productstatus

Search in all objects



Explore

Categories

Administration

1 result(s) for query: 90ec8fc2-725c-4673-929a-5580fe6cce11

Product instance: 2017-03-03 07:30:00Z

Version 1

[90ec8fc2-725c-4673-929a-5580fe6cce11](#)

[Admin](#)

Product	RADAR Nowcast Norway post-processed	e664da42-b56b-45bf-8531-bb2535d07bd2
Reference time	2017-03-03 07:30:00Z	
Version	1	
Added to database	2017-03-03 07:39:09Z	
Last modified	2017-03-03 07:39:22Z	
Number of data entries	1	
Previous in time and version	2017-03-03 07:22:30Z Version 1	3f29960c-bb57-49e7-a536-981080a4765b
Next in time and version	---	

Contents

URL	Service backend	File format	Status	ID	Admin
2017-03-03 07:30:00Z to 2017-03-03 09:22:30Z				9b491893-74b9-4c4b-8abe-8d15ca036560	Admin
http://thredds.met.no/thredds/dodsC/radarnowcasting/pp/nowcastlcc-gridpp-20170303T073000Z.nc	THREDDS	NetCDF	Exists	ad621faf-e8dc-434a-a4f7-693728e74203	Admin
file:///lustre/storeB/project/metproduction/products/radar-nowcasting/pp/nowcastlcc-gridpp-20170303T073000Z.nc	LustreB	NetCDF	Exists	84bb2365-7c38-4787-89f7-19fc9637c0c1	Admin
file:///lustre/storeA/project/metproduction/products/radar-nowcasting/pp/nowcastlcc-gridpp-20170303T073000Z.nc	LustreA	NetCDF	Exists	bd9d7cb3-c89b-45a9-8e4b-bebde40d33d3	Admin

Productstatus is an internal MET Norway service, brought to you by IT-Modellprod.



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Future plans

- Replace Mesos with Kubernetes
- Rewrite / Rethink Productstatus
- Feed latest model data to in-memory structures
- Turn EVENT Adapter into a programming language integration



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Questions?