Cloud infrastructure overview

astrophysics data system

Classic Form | Modern Form | Paper Form

Cloud infrastructure

New cluster

Cloud infrastructure overview

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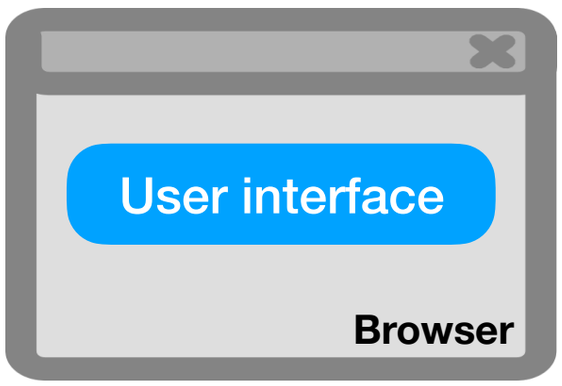

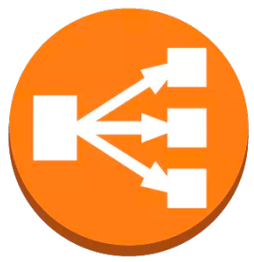

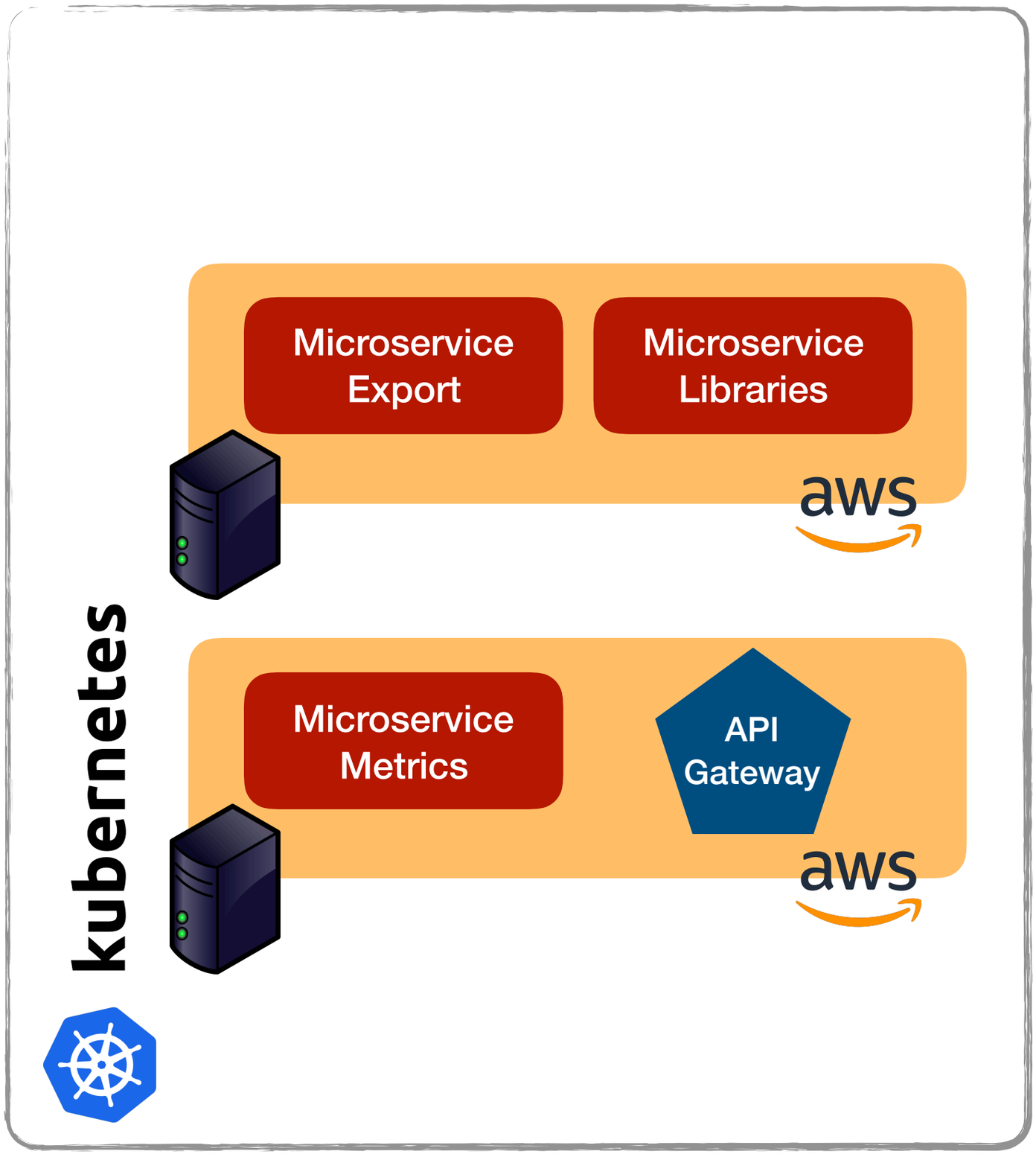

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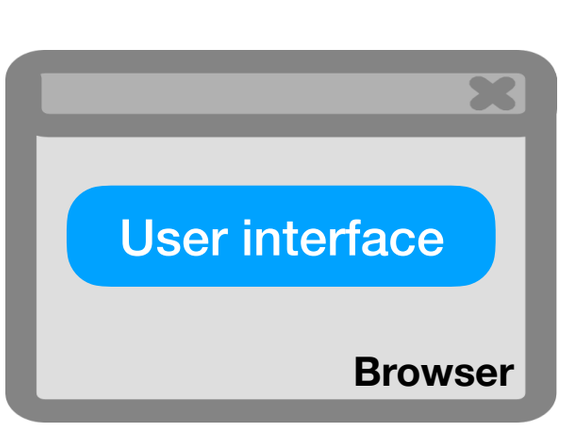

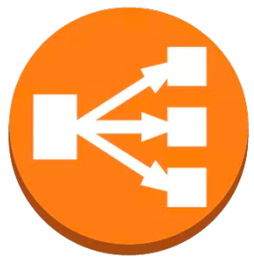

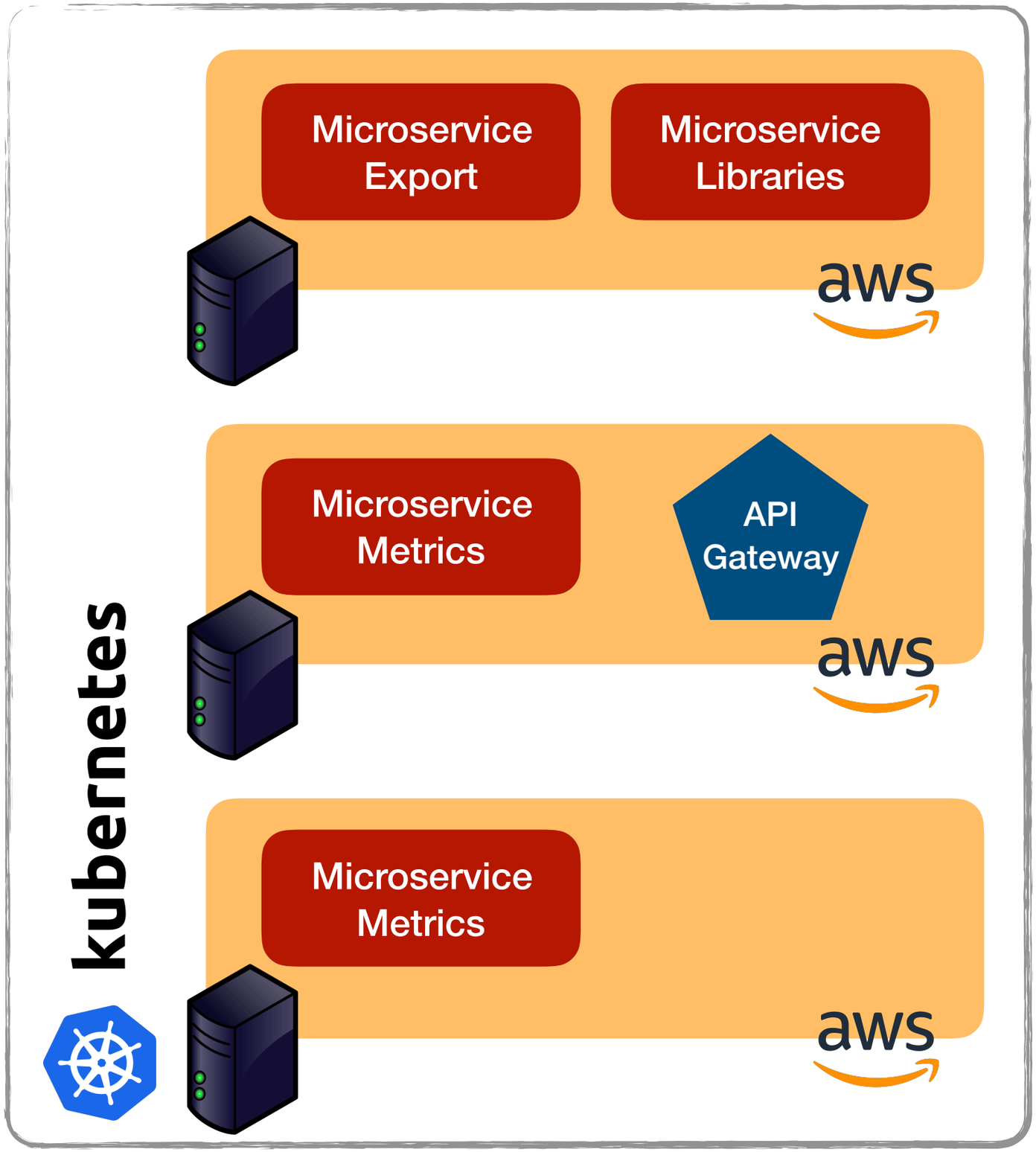

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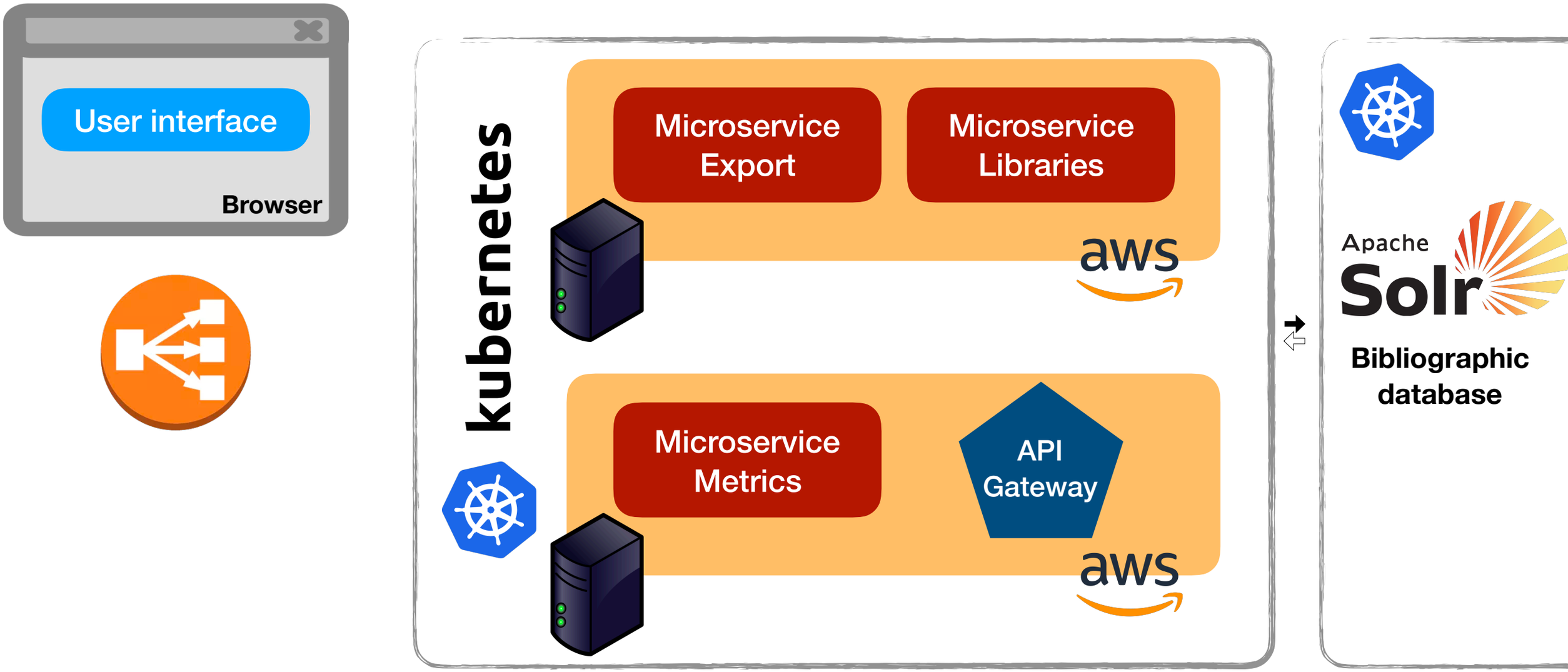

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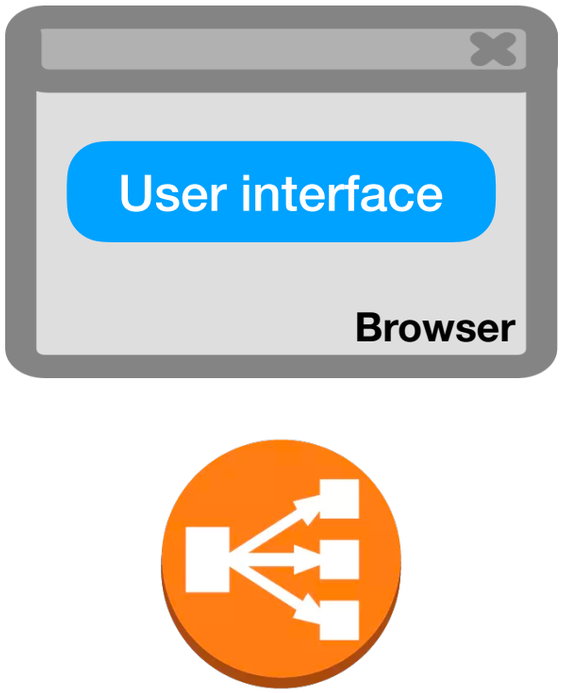
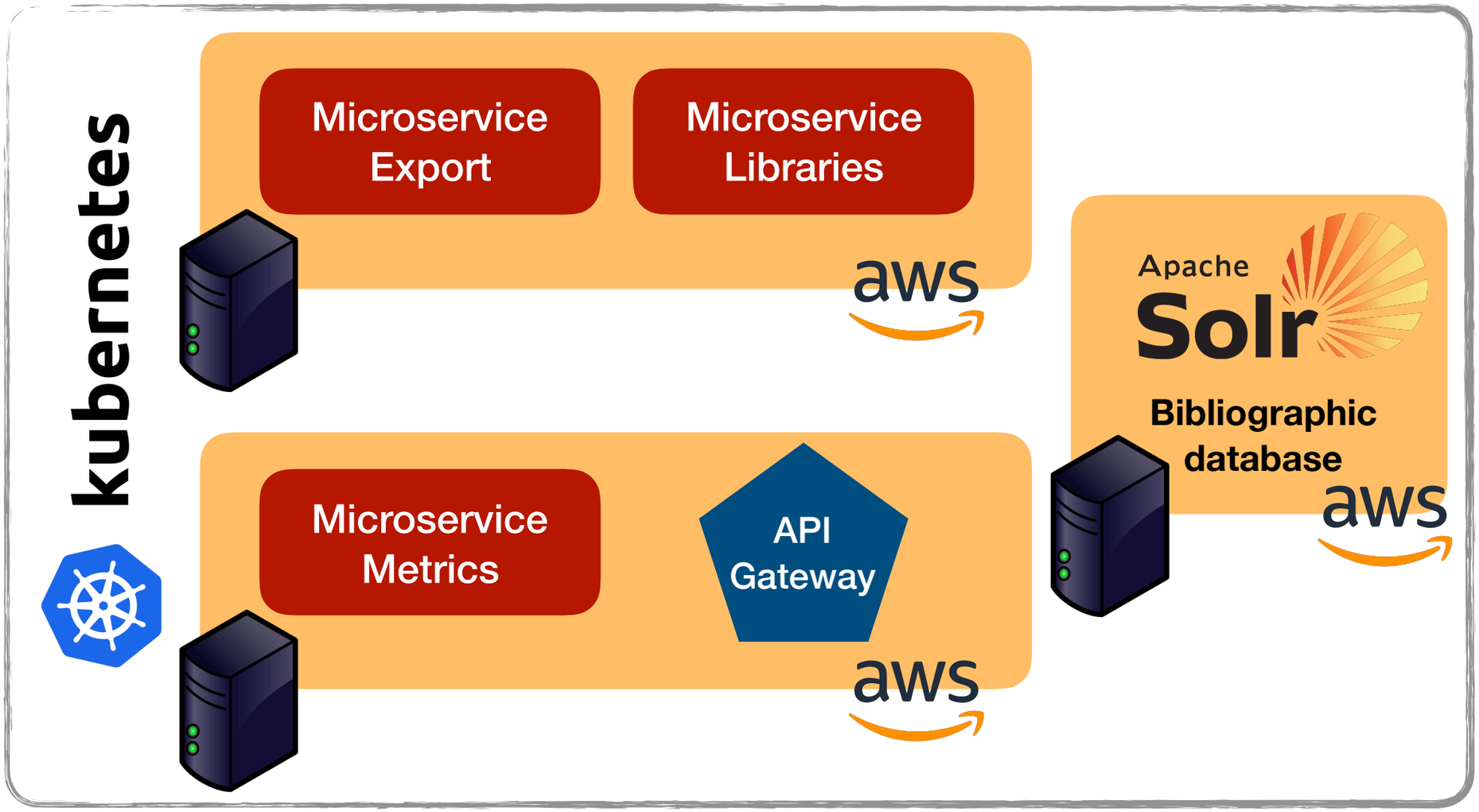




graylog

CloudWatch

Cloud infrastructure overview

graylog

graylog | Search | Streams | Alerts | Dashboards | Sources | System | In **564** / Out **563** msg/s | Help | Administrator

Search in the last 7 days | Not updating | Saved searches

`environment:prod AND container_name:biblib`

Search result

Found **300,175 messages** in 36 ms, searched in 34 indices.
Results retrieved at 2018-11-26 16:00:29.

Add count to dashboard | Save search criteria | More actions

Fields | Decorators

Default | All | None | Filter fields

- gunicorn-request-method
- gunicorn-request-time
- gunicorn-response-length
- gunicorn-status
- gunicorn-status-line
- gunicorn-time
- gunicorn-url-path
- gunicorn-user-agent
- host
- hostname
- kubernetes
- labels_pod-template-hash
- labels_run
- level
- levelname
- lineno
- log
- logger
- [x] message
- msecs
- namespace_name
- pod_id
- pod_name
- process
- protocol
- [x] source
- [x] status
- stream
- tag
- threadName
- time
- timestamp
- tokens
- [x] trace_id
- X-Amzn-Trace-Id

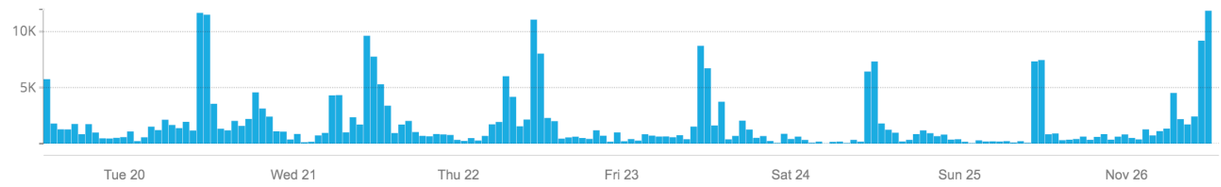
List fields of **current page** or all fields.

[x] Highlight results

Histogram

Add to dashboard

Year, Quarter, Month, Week, Day, **Hour**, Minute



Messages

Previous | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Next

Timestamp	source	container_name	status	trace_id	X-Original-Uri
2018-11-26 15:59:43.722 `User exists in database: 2610 [API]`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc181d-f75b7b61acc80c6e6385dcd6	/v1/biblib/libraries
2018-11-26 15:59:43.722 `User found: 2610 -u003e 2234`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc181d-f75b7b61acc80c6e6385dcd6	/v1/biblib/libraries
2018-11-26 15:59:43.722 `Obtaining email of user: 2610 [API UID]`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc181d-f75b7b61acc80c6e6385dcd6	/v1/biblib/libraries
2018-11-26 15:59:43.722 `Converted uuid: b81d9b26-33e2-4b57-b116-035eb4d71120 to slug: uB2bJjPiS1exFgNetNcRIA`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc181d-f75b7b61acc80c6e6385dcd6	/v1/biblib/libraries
2018-11-26 15:59:43.722 `Obtaining email of user: 2610 [API UID]`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc181d-f75b7b61acc80c6e6385dcd6	/v1/biblib/libraries
2018-11-26 15:59:43.722 `Converted uuid: 4ea6b716-b16d-4480-a73c-7a4075c7824c to slug: Tqa3FrFtRICnPHpAdceCTA`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc181d-f75b7b61acc80c6e6385dcd6	/v1/biblib/libraries
2018-11-26 15:59:43.722 `{}`	fluentd-67c6c49bf9-qm9hd	biblib	200	1-5bfc181d-f75b7b61acc80c6e6385dcd6	/v1/biblib/libraries
2018-11-26 15:58:37.018 `User exists in database: 2610 [API]`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc1822-2aad6bbcc2177f308131254d	/v1/biblib/libraries
2018-11-26 15:58:37.018 `Converted uuid: b81d9b26-33e2-4b57-b116-035eb4d71120 to slug: uB2bJjPiS1exFgNetNcRIA`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc1822-2aad6bbcc2177f308131254d	/v1/biblib/libraries
2018-11-26 15:58:37.018 `Obtaining email of user: 2610 [API UID]`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc1822-2aad6bbcc2177f308131254d	/v1/biblib/libraries
2018-11-26 15:58:37.018 `User found: 2610 -u003e 2234`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc1822-2aad6bbcc2177f308131254d	/v1/biblib/libraries
2018-11-26 15:58:37.018 `Converted uuid: 4ea6b716-b16d-4480-a73c-7a4075c7824c to slug: Tqa3FrFtRICnPHpAdceCTA`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc1822-2aad6bbcc2177f308131254d	/v1/biblib/libraries
2018-11-26 15:58:37.018 `{}`	fluentd-67c6c49bf9-qm9hd	biblib	200	1-5bfc1822-2aad6bbcc2177f308131254d	/v1/biblib/libraries
2018-11-26 15:58:37.018 `Obtaining email of user: 2610 [API UID]`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc1822-2aad6bbcc2177f308131254d	/v1/biblib/libraries
2018-11-26 15:55:54.128 `Converted slug: JdREIvWUQnuXefy9qwTkSw to uuid: 25d44422-f594-427b-9779-fcbdab04e44b`	fluentd-67c6c49bf9-qm9hd	biblib		1-5bfc174c-a5bb9995be4a925b8b47b79e	/v1/biblib/documents/JdREIvWUQnuXefy9qwTkSw

Cloud infrastructure overview

graylog

Search in the last 8 hours | Not updating | Saved searches

```
container_name:ingress* AND namespace_name:ads-prod AND NOT status:200
```

Search result

Found **429,802 messages** in 225 ms, searched in 12 indices.
Results retrieved at 2019-10-31 14:49:00.

Add count to dashboard | Save search criteria | More actions

Fields | Decorators

Default | All | None | status

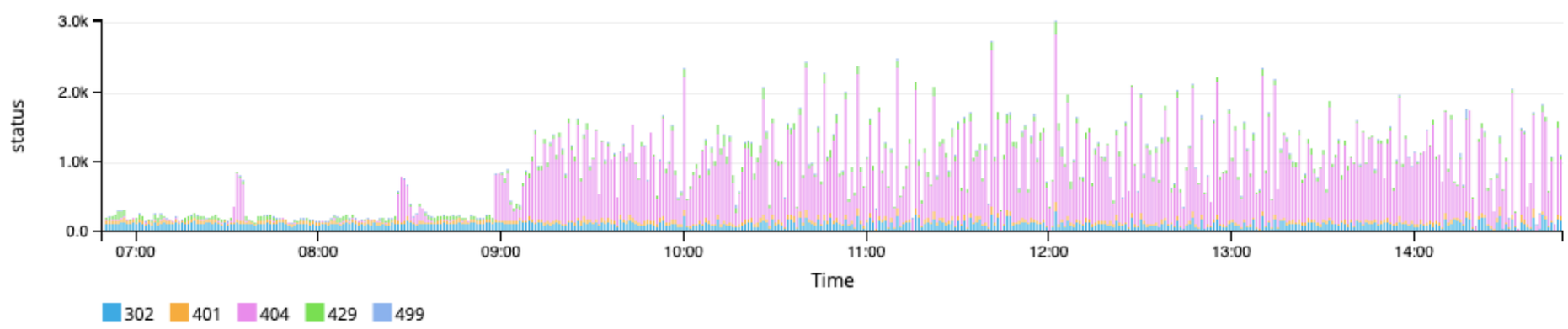
- status
  - Generate chart
  - Quick values
  - Statistics
  - World Map
- upstream_status

List fields of **current page** or all fields.

Highlight results

Quick Values for *status*

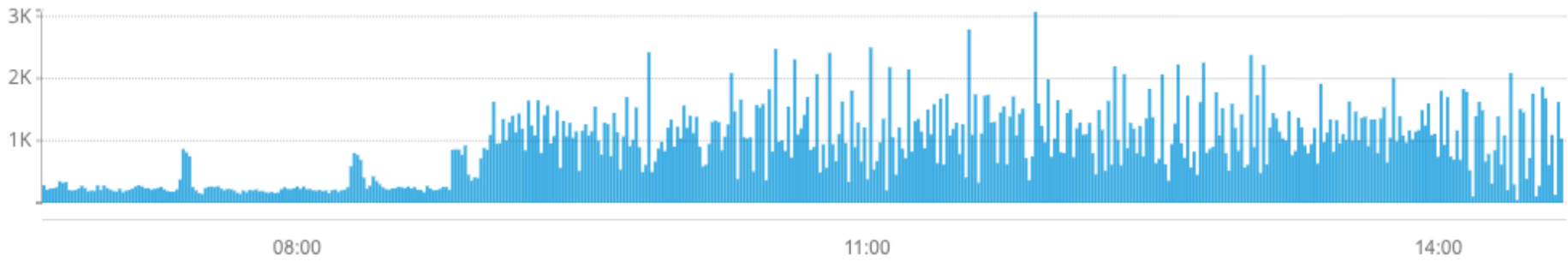
Add to dashboard | Customize



Histogram

Add to dashboard

Year, Quarter, Month, Week, Day, Hour, **Minute**



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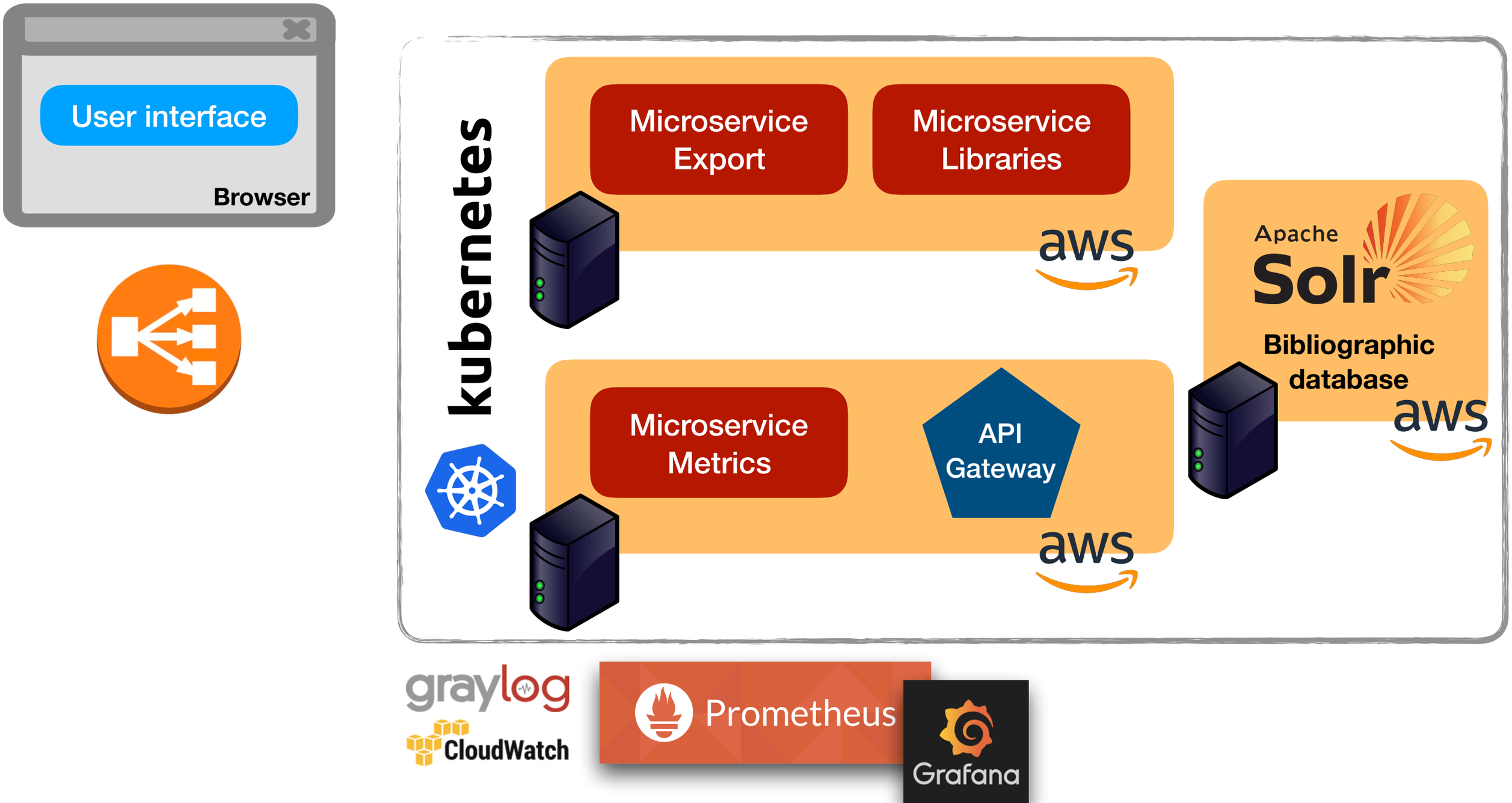
astrophysics data system



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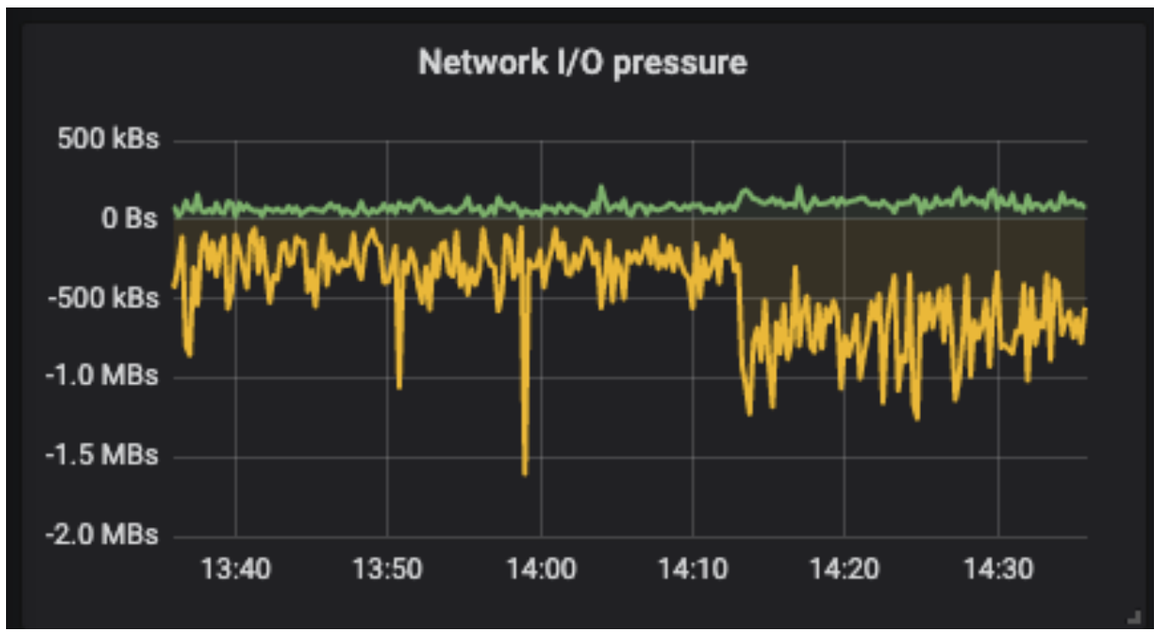
Prometheus

Grafana



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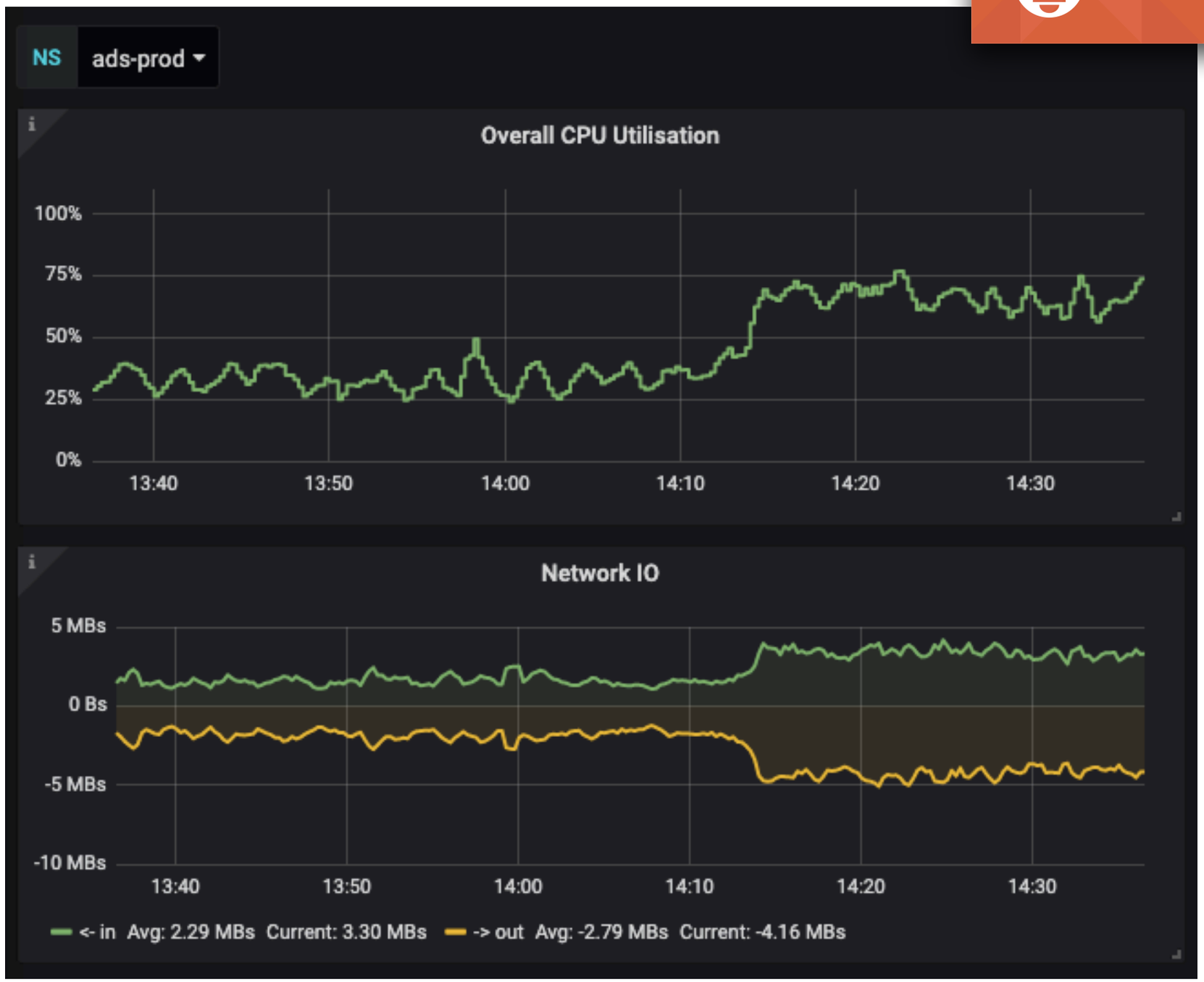
Prometheus

Grafana



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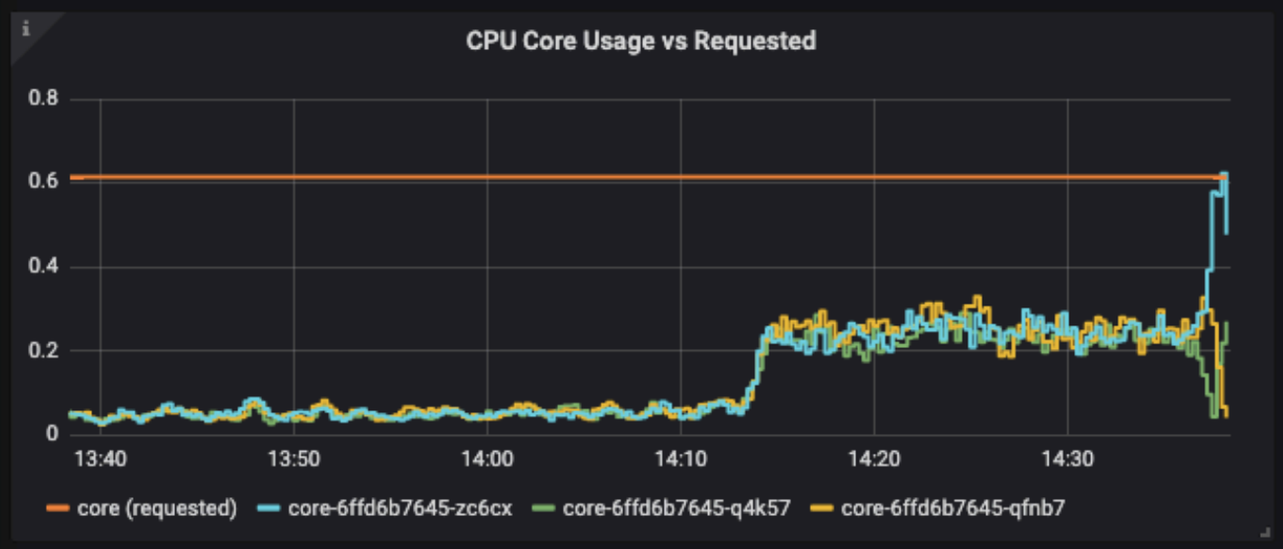
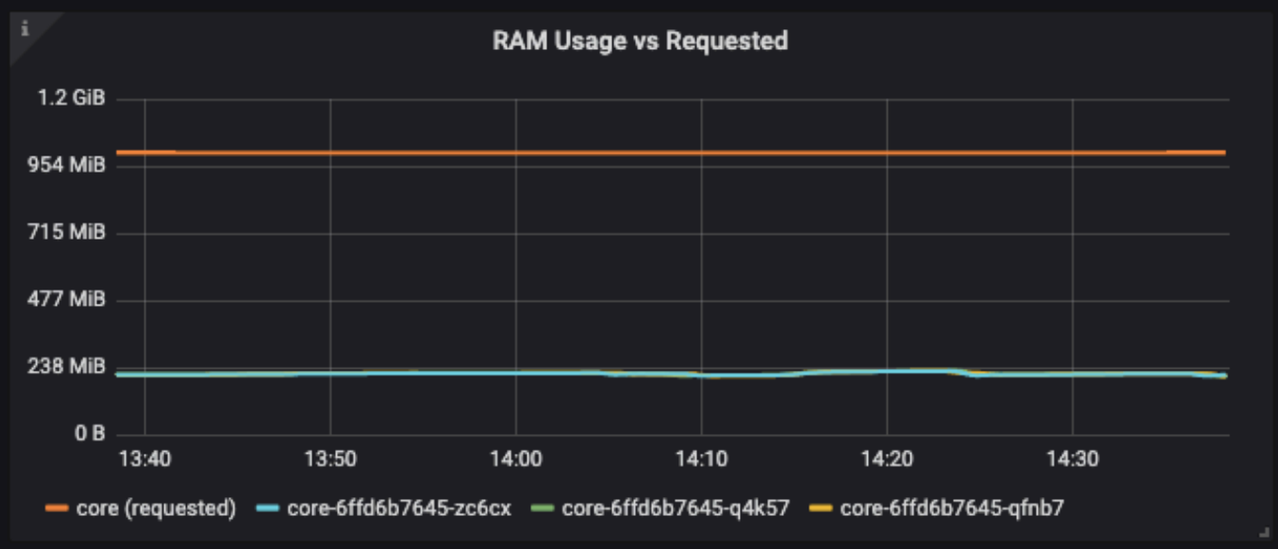
Prometheus Grafana

Namespace ads-prod Deployment core

CPU	Memory	Network
0.4 cores	0.6 GB	471 kBs

Desired Replicas	Available Replicas	Observed Generation	Metadata Generation
3	3	432	432





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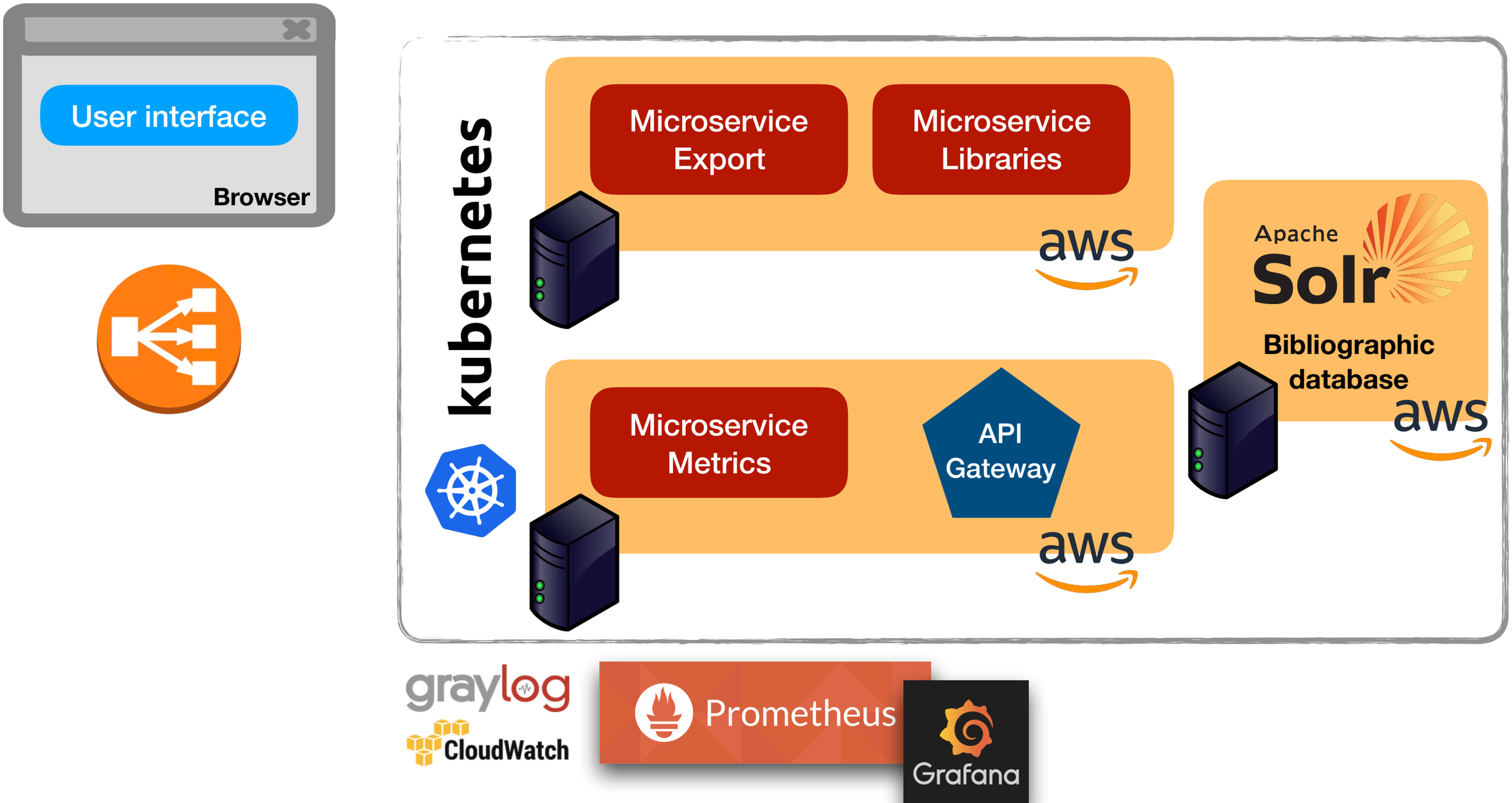

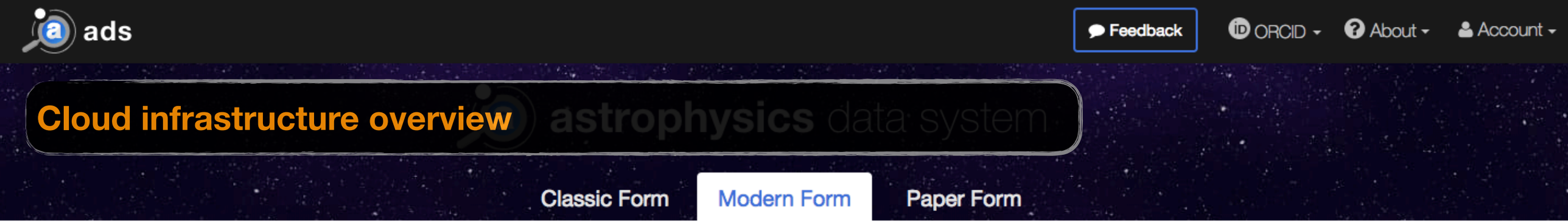

Achievements

- New single cluster capable of handling ADS classic traffic
- Improved internal monitoring (e.g., CPU, network traffic, memory usage)

Future improvements

- Implement an alert system based on thresholds