

# Production-grade Multi-container Apps

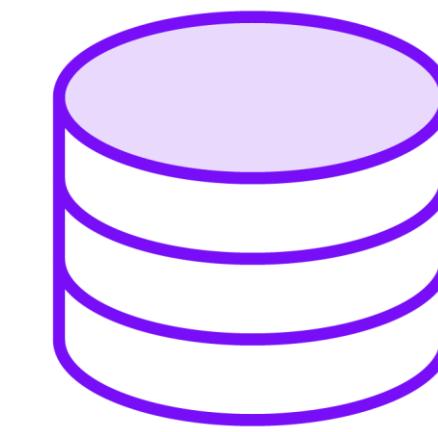
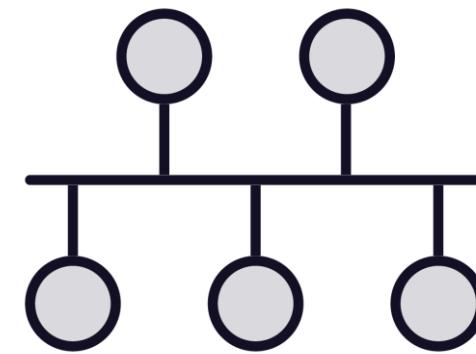
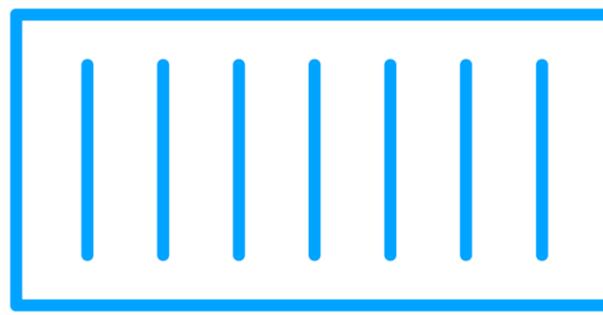
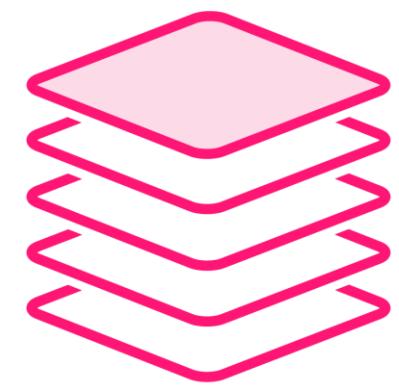


**Nigel Poulton**

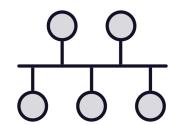
Author & Trainer

@nigelpoulton | [www.nigelpoulton.com](http://www.nigelpoulton.com)

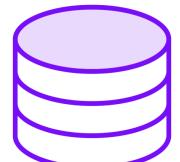




## **compose.yml**



> networks:



> volumes:



> service:



> service:



> image:



# Overview/ Summary



**Docker Stacks Big Picture**

**Looking at the Compose File**

**Deploying and Managing Docker Stacks**

**Recap**



**Up Next:**

# **Docker Stacks Big Picture**

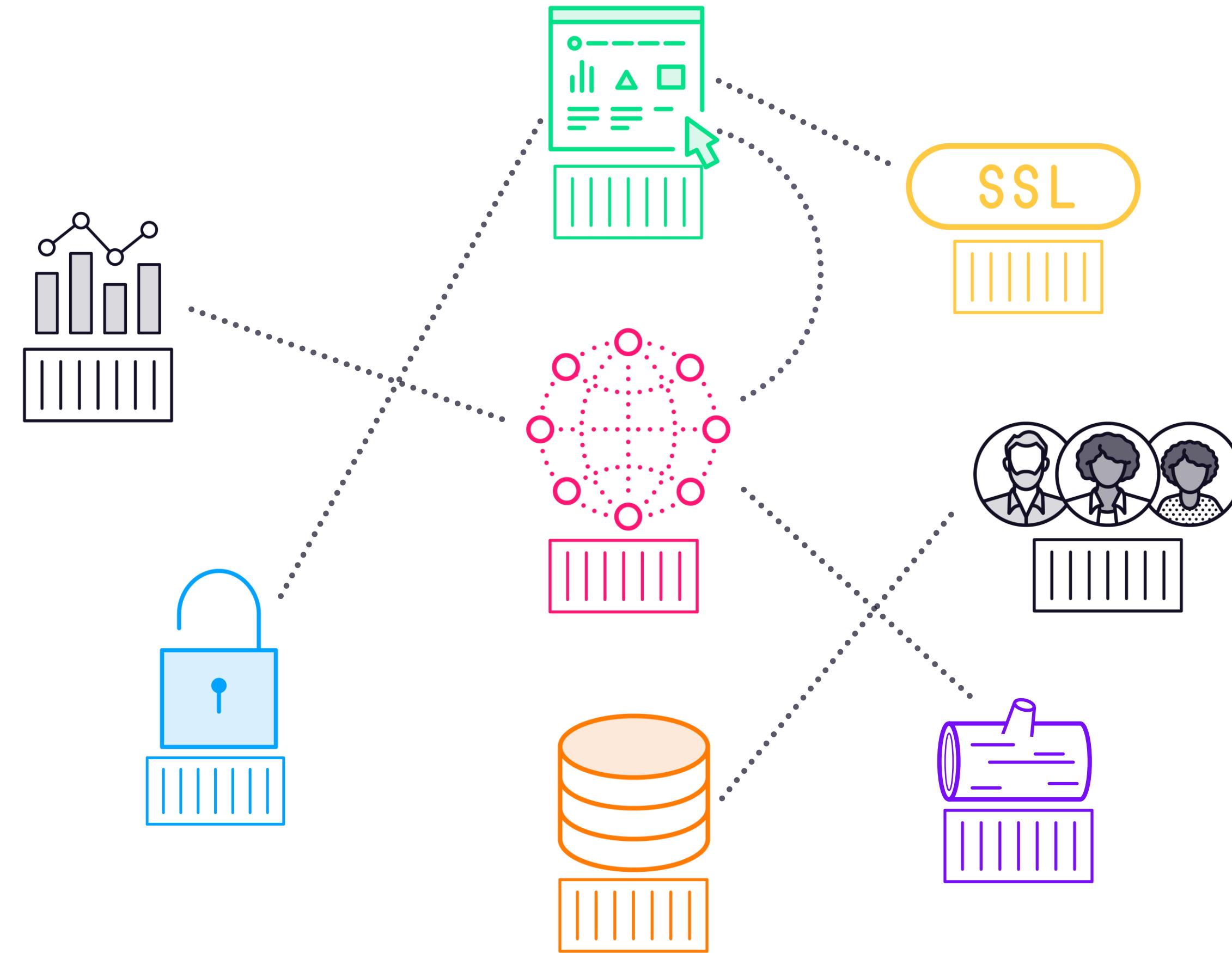
---

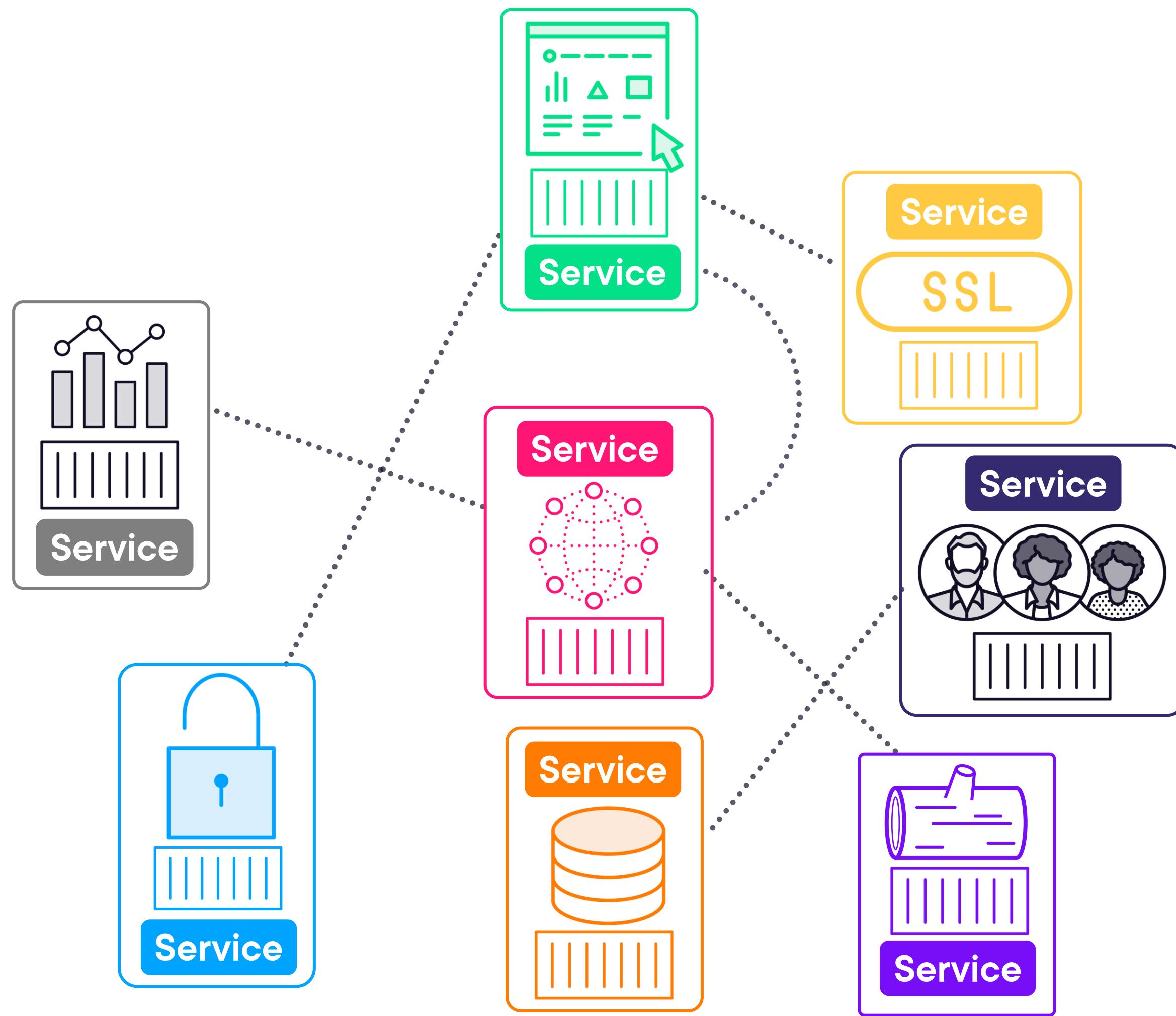




# Docker Stacks Big Picture

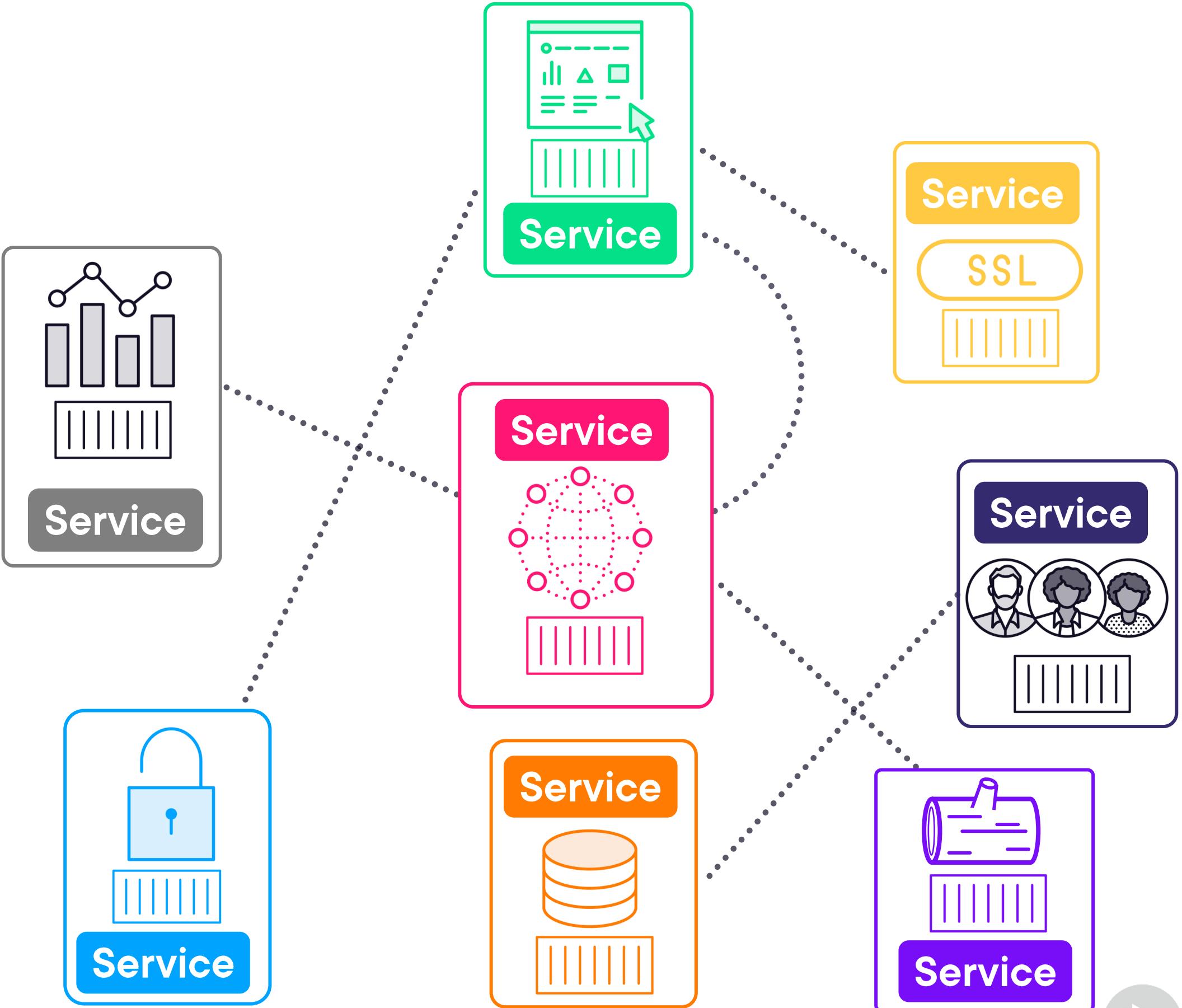






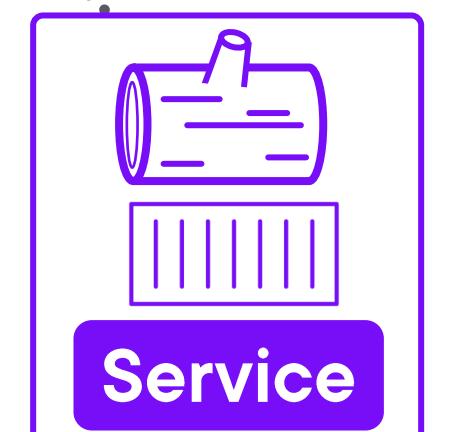
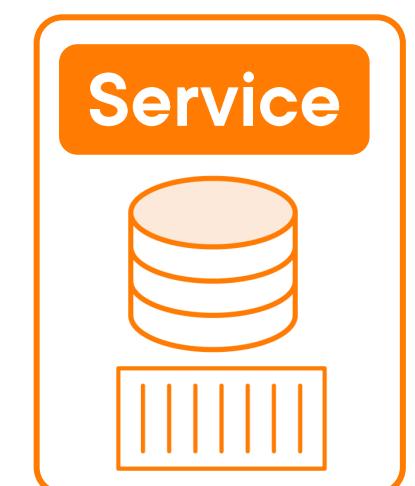
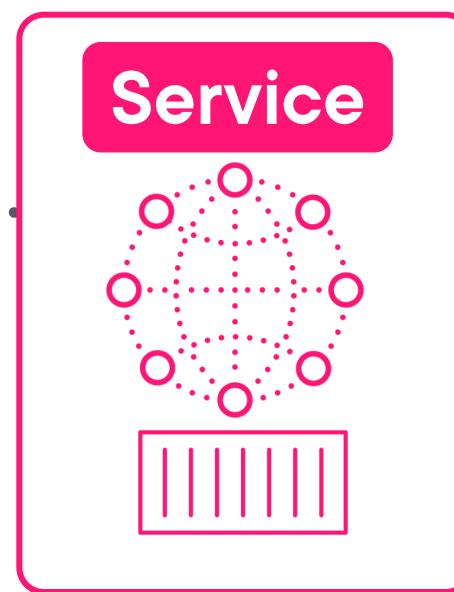
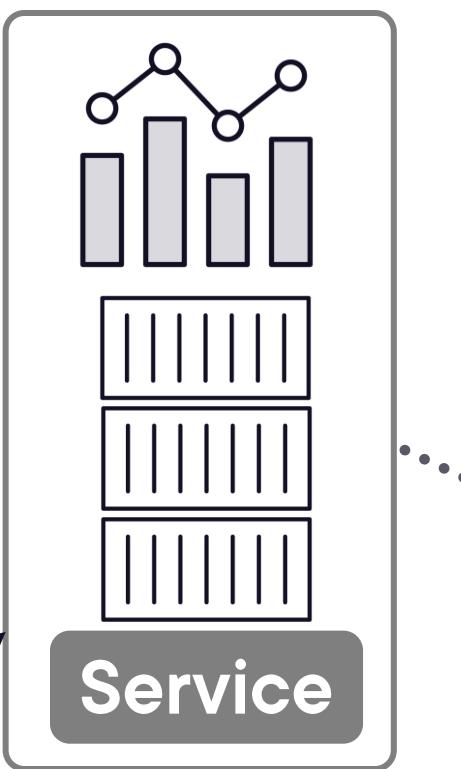
## compose.yml

```
> front-end:  
> ssl:  
> authN:  
> kv:  
> logging:  
> reporting:
```



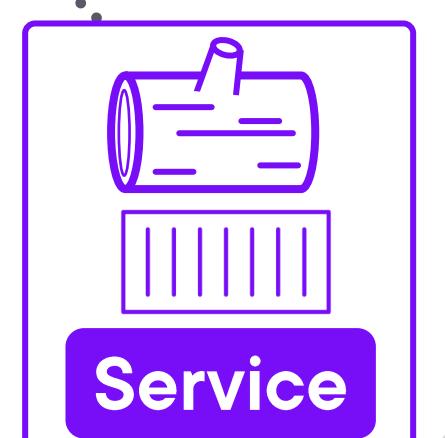
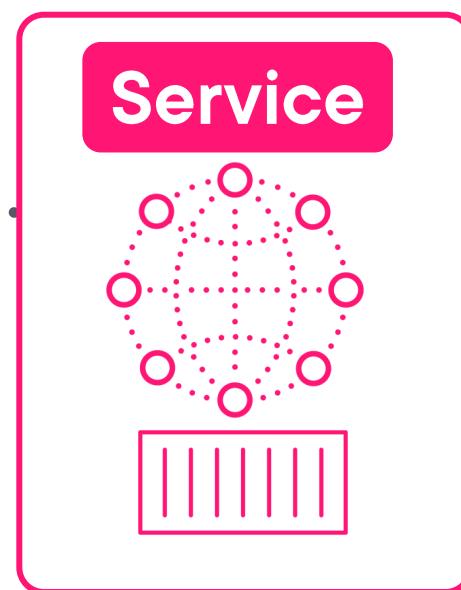
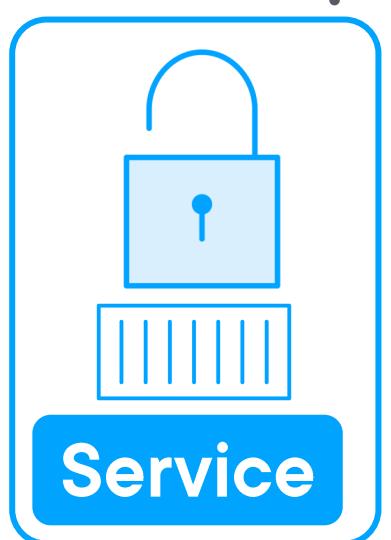
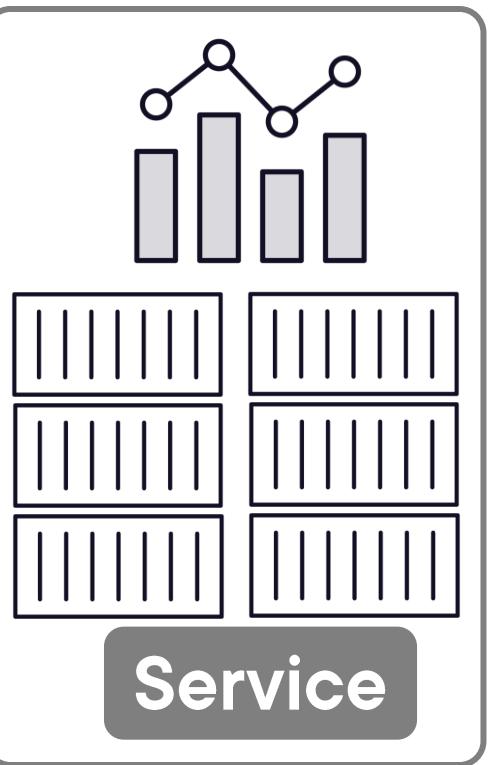
## compose.yml

```
> front-end:  
> ssl:  
> authN:  
> kv:  
> logging:  
> reporting:  
> replicas: 3
```



## compose.yml

```
> front-end:  
> ssl:  
> authN:  
> kv:  
> logging:  
> reporting:  
> replicas: 6
```



**Up Next:**

# **Looking at the Compose File**

---



# Looking at the Compose File



**Up Next:**

# **Deploying and Managing Docker Stacks**

---



# Deploying and Managing Docker Stacks

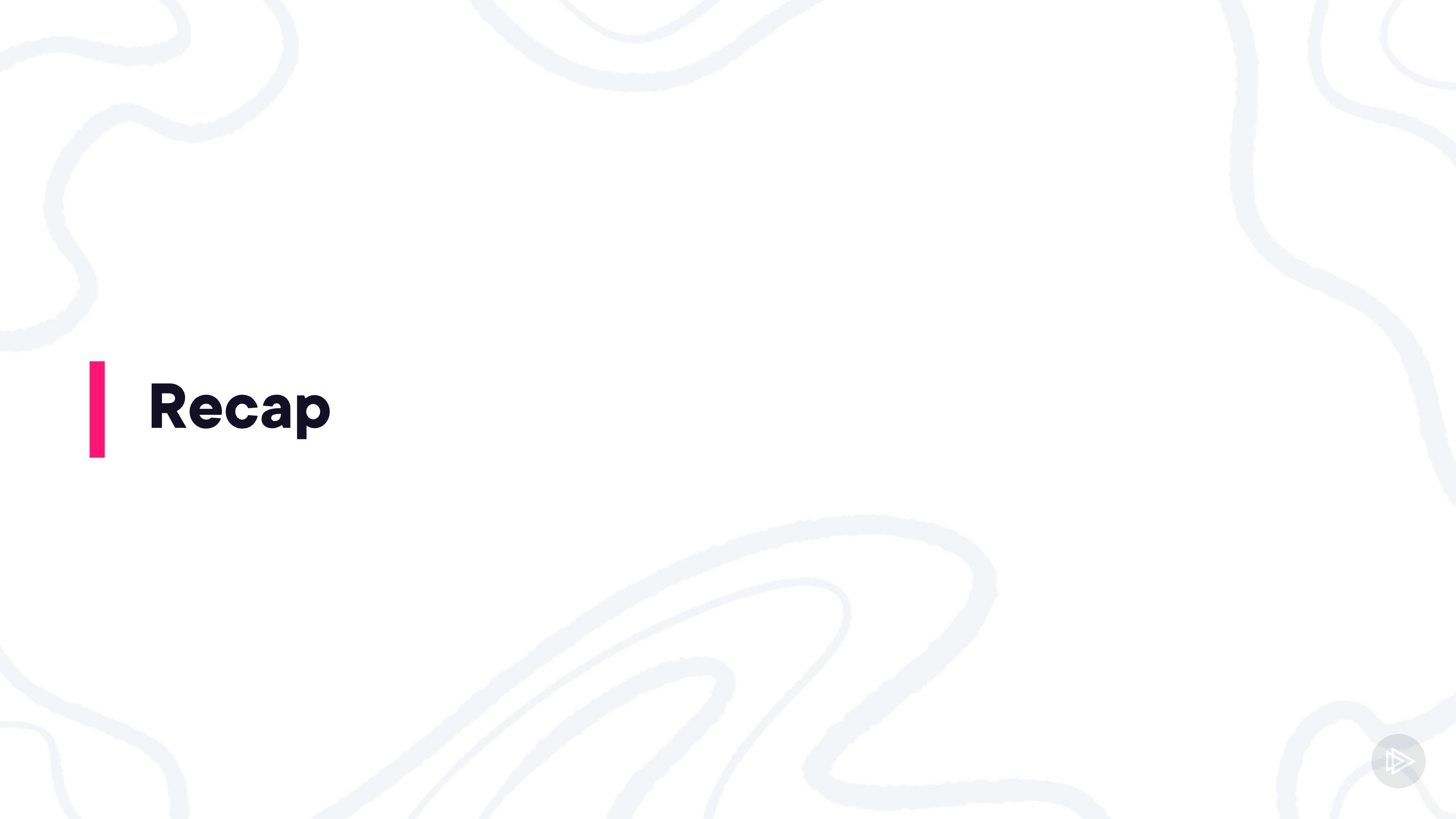


**Up Next:**

# **Recap**

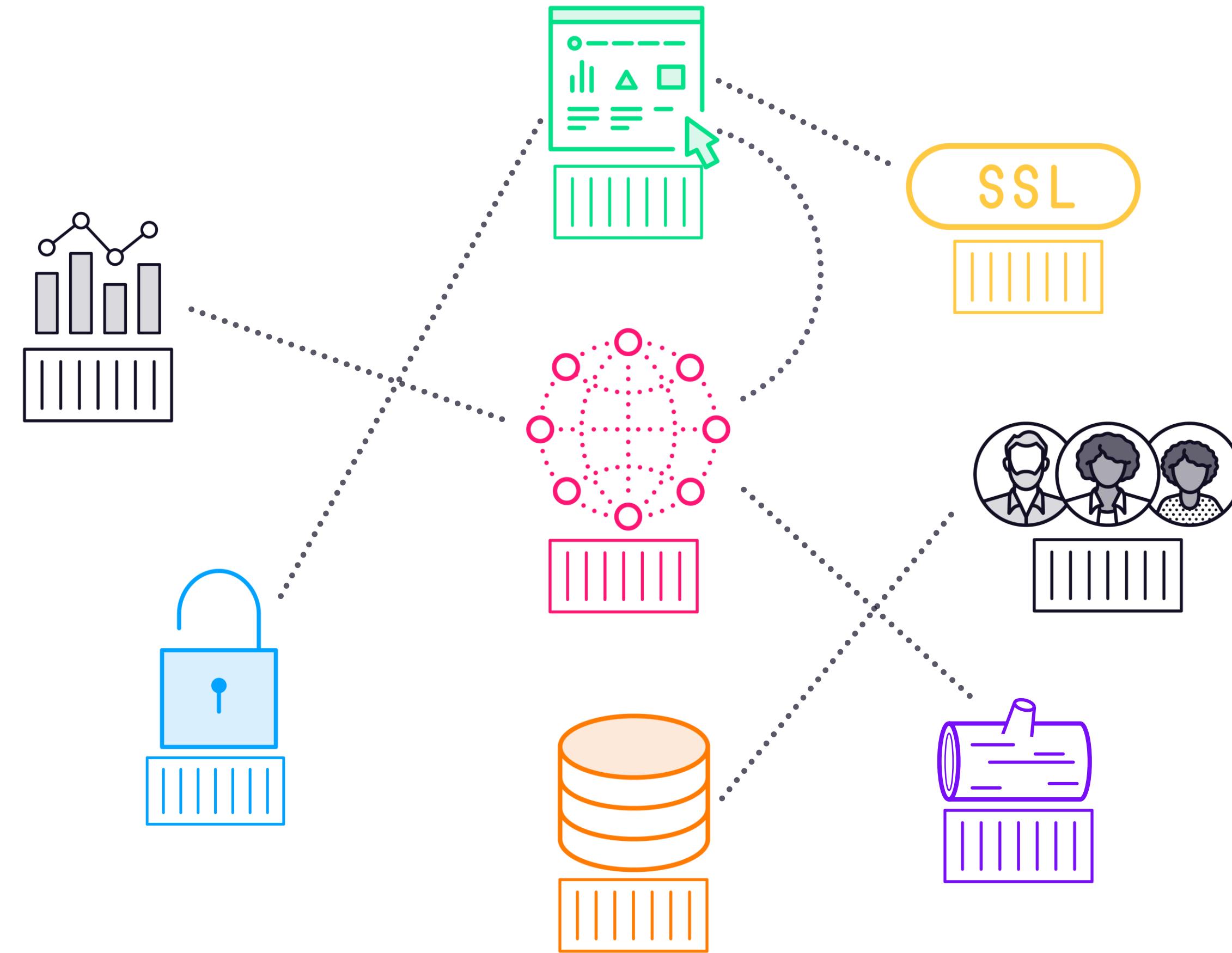
---

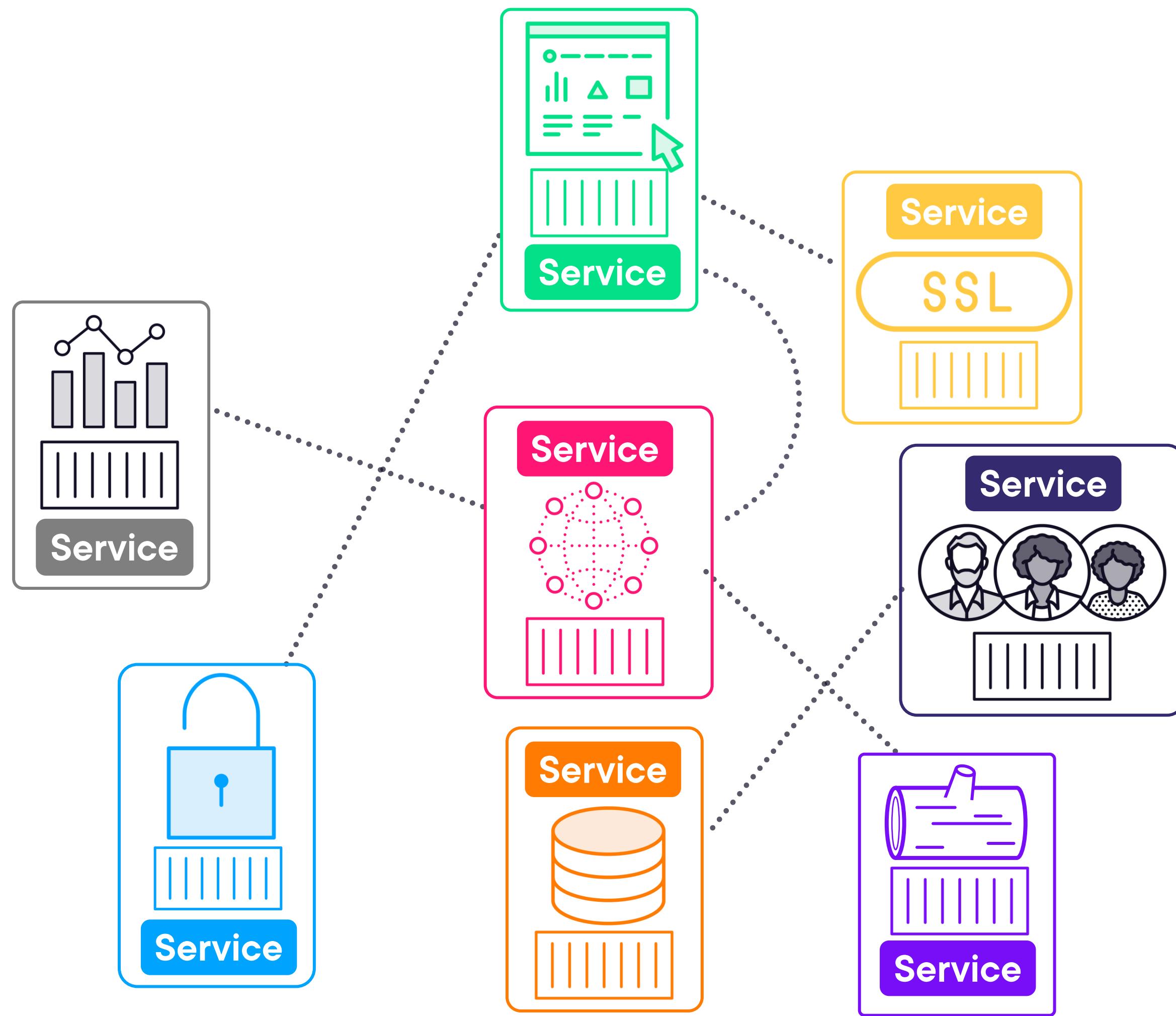




# Recap

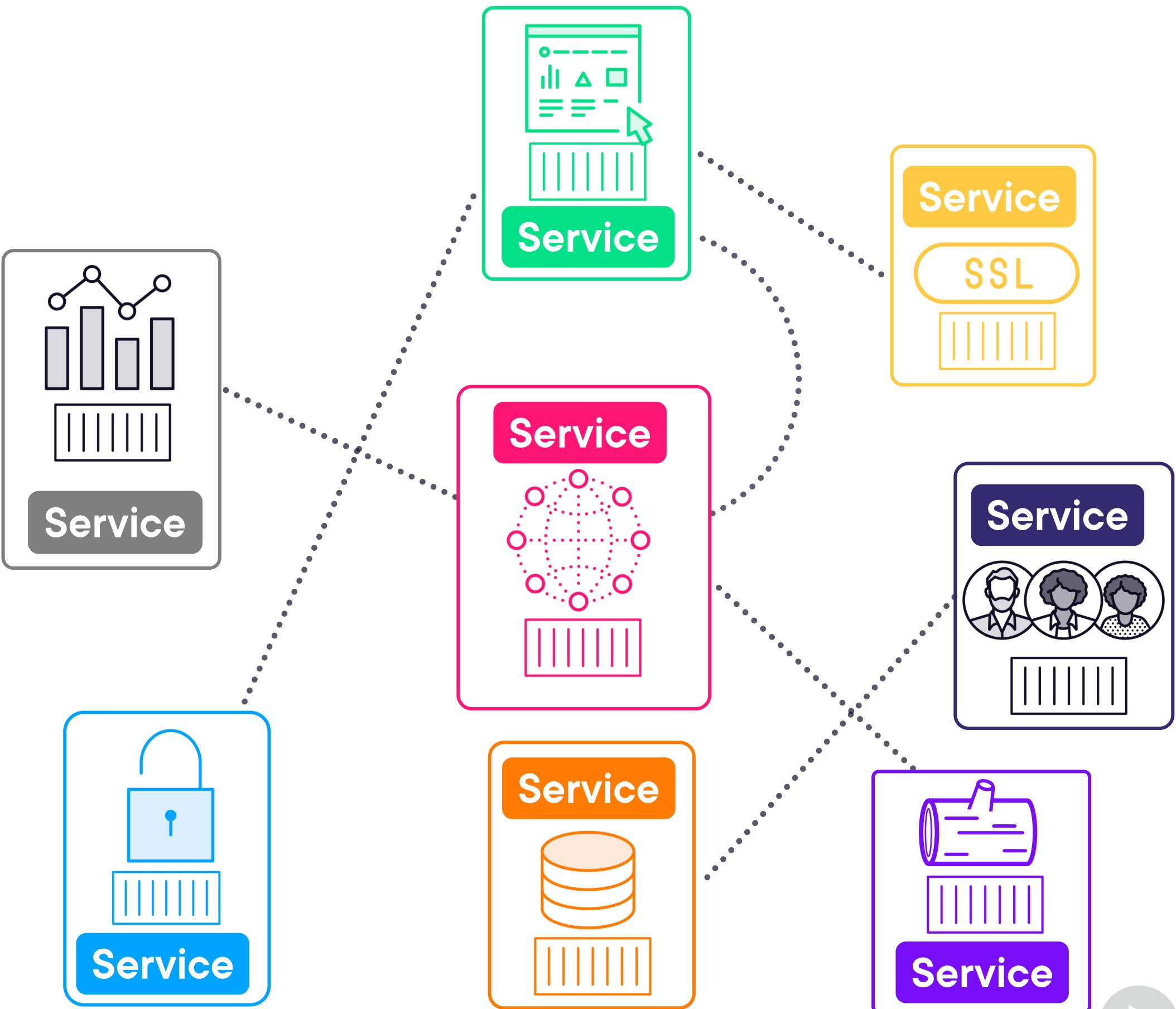






## Desired State

```
services:  
  web-fe:  
    replicas: 3  
    ...  
    ver: pink  
    ...
```





## Desired State

```
services:  
  web-fe:  
    replicas: 3  
    ...  
    ver: pink  
    ...
```



Cluster Store



...





## Desired State

```
services:  
  web-fe:  
    replicas: 3  
    ...  
    ver: pink  
    ...
```

```
$ docker stack deploy
```

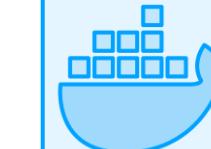


Cluster Store

Desired State  
replicas: 3  
ver: pink



Node



Node

...





## Desired State

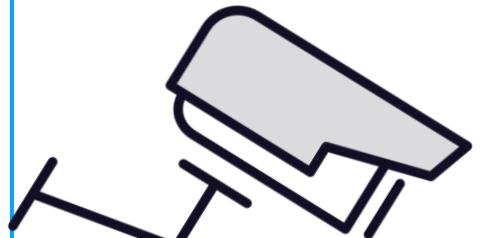
```
services:  
  web-fe:  
    replicas: 3  
    ...  
    ver: pink  
    ...
```

```
$ docker stack deploy
```



Cluster Store

Desired State  
replicas: 3  
ver: pink



web-fe



...





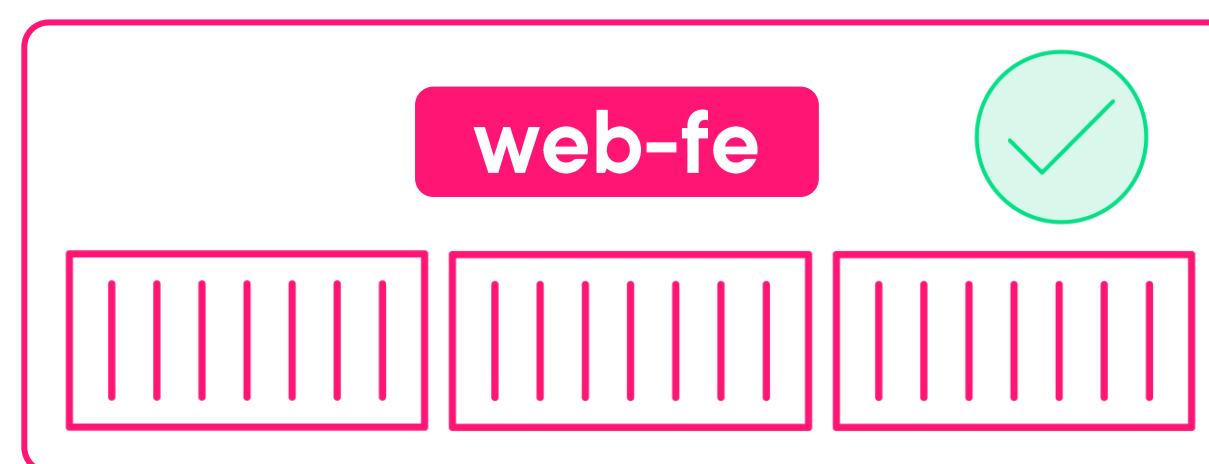
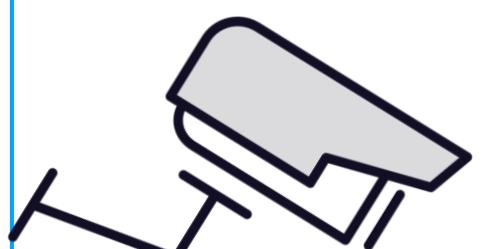
## Desired State

```
services:  
  web-fe:  
    replicas: 3  
    ...  
    ver: pink  
    ...
```



Cluster Store

Desired State  
replicas: 3  
ver: pink



...





## Desired State

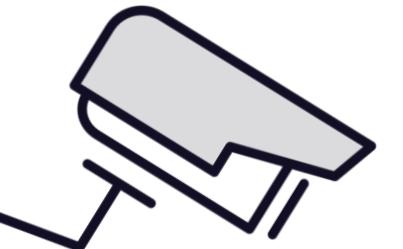
```
services:  
  web-fe:  
    replicas: 6  
    ...  
    ver: pink  
    ...
```

```
$ docker stack deploy
```



Cluster Store

Desired State  
replicas: 3  
ver: pink



web-fe



Node



Node



Node

...





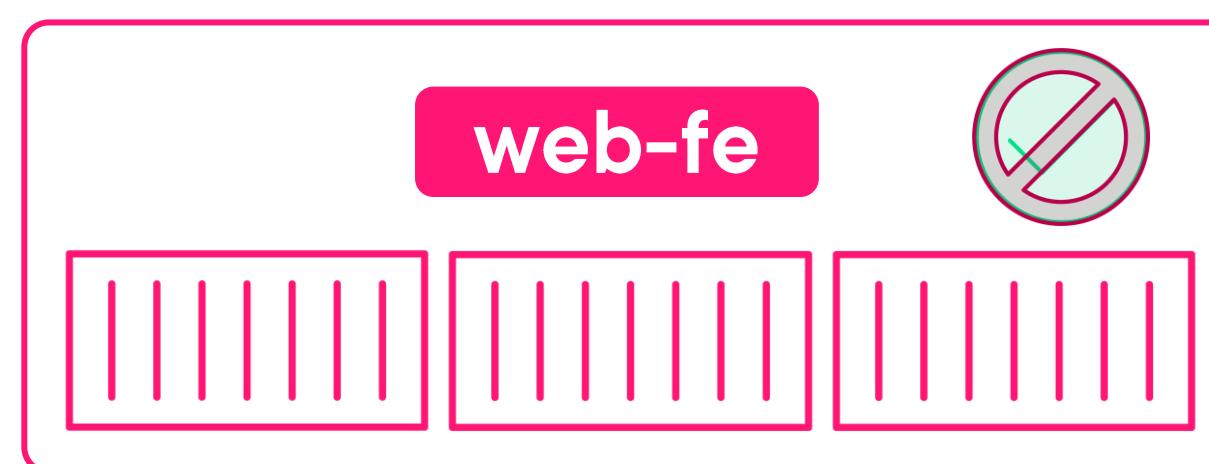
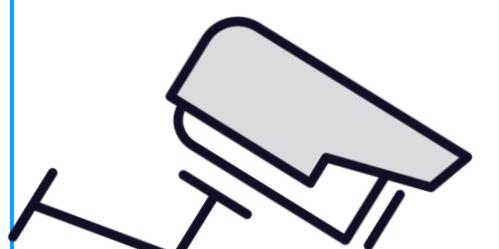
## Desired State

```
services:  
  web-fe:  
    replicas: 6  
    ...  
    ver: pink  
    ...
```



Cluster Store

Desired State  
replicas: 6  
ver: pink



Node



Node



Node

...





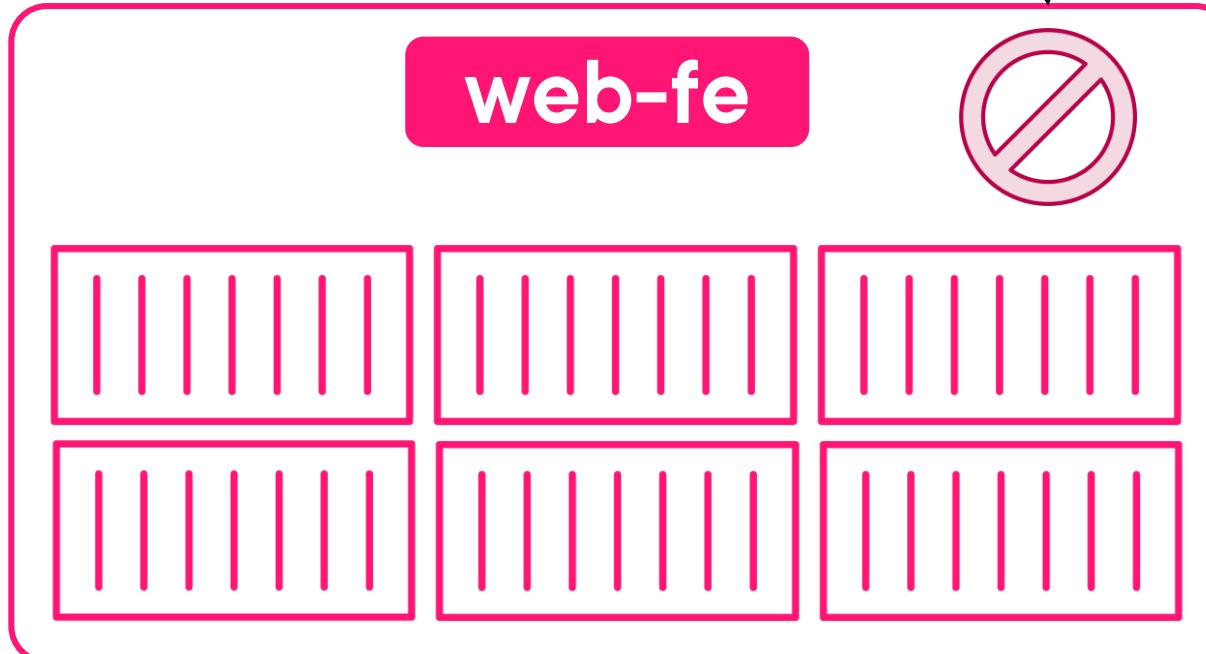
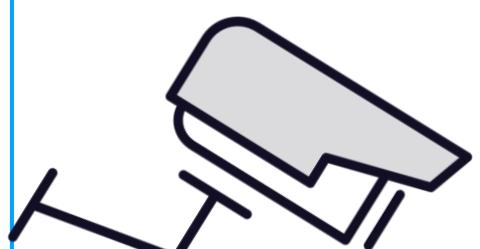
## Desired State

```
services:  
  web-fe:  
    replicas: 6  
    ...  
    ver: pink  
    ...
```



Cluster Store

Desired State  
replicas: 6  
ver: pink



...





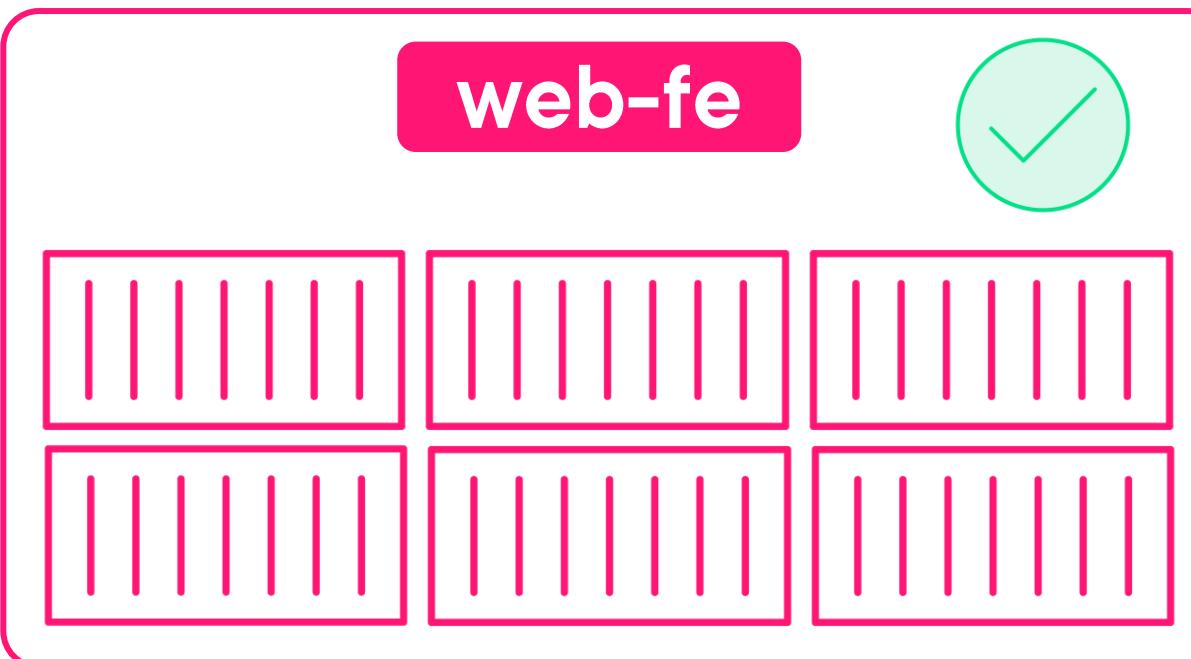
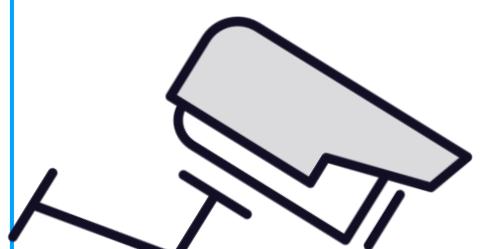
## Desired State

```
services:  
  web-fe:  
    replicas: 6  
    ...  
    ver: pink  
    ...
```



Cluster Store

Desired State  
replicas: 6  
ver: pink



...





## Desired State

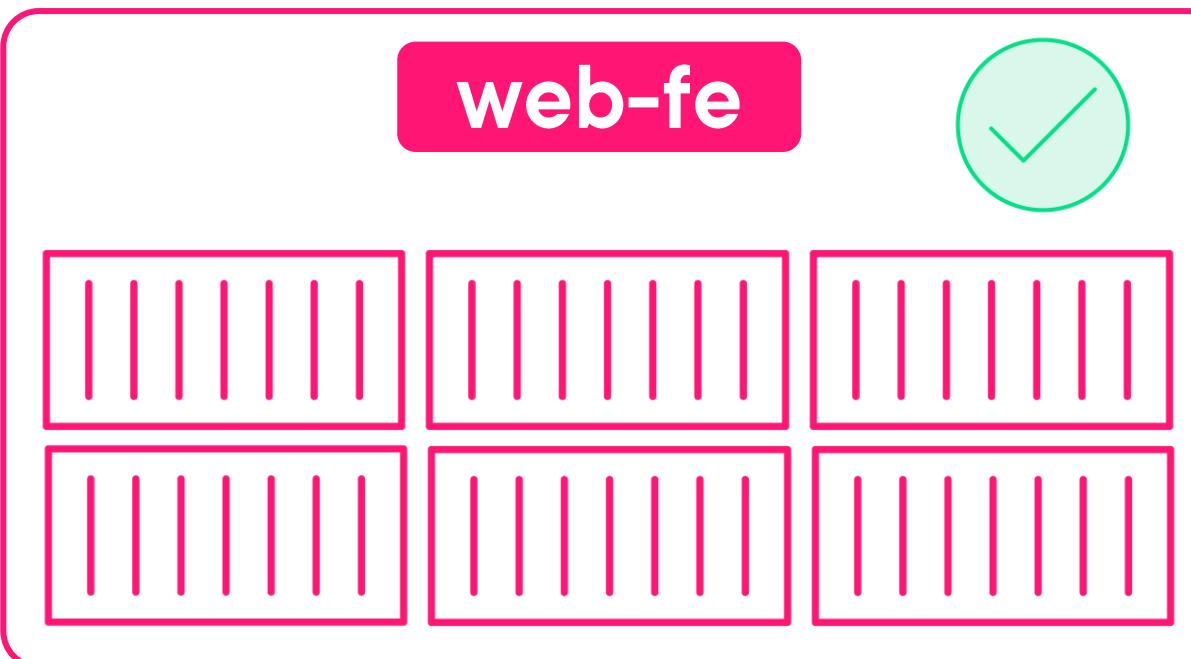
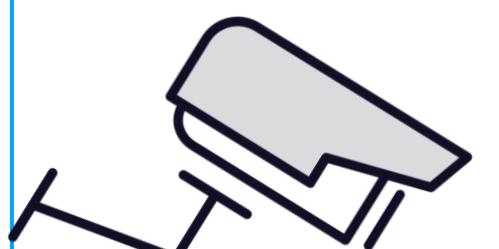
```
services:  
  web-fe:  
    replicas: 6  
    ...  
    ver: blue  
    ...
```

```
$ docker stack deploy
```



Cluster Store

Desired State  
replicas: 6  
ver: pink



Node



Node



Node

...



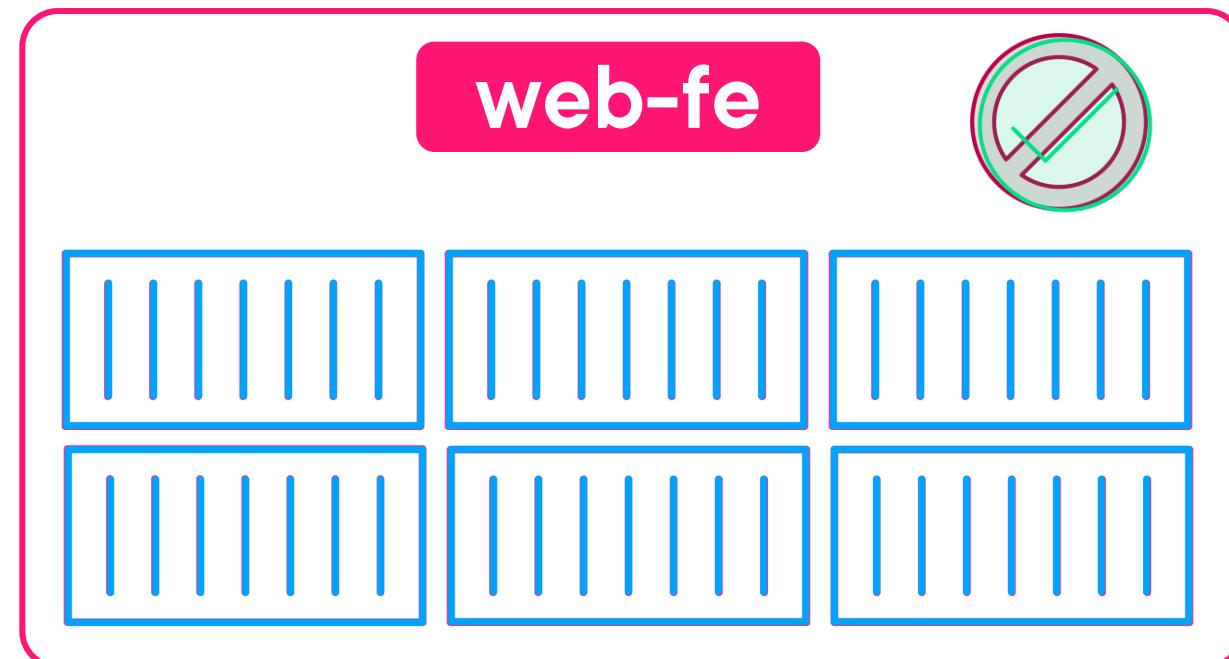
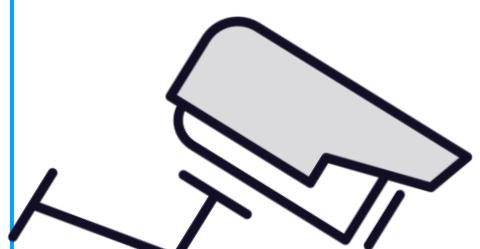
## Desired State

```
services:  
  web-fe:  
    replicas: 6  
    ...  
    ver: blue  
    ...
```



Cluster Store

Desired State  
replicas: 6  
ver: blue



...



**Up Next:**

# **What Next**

---

