

Production-grade Multi-container Apps

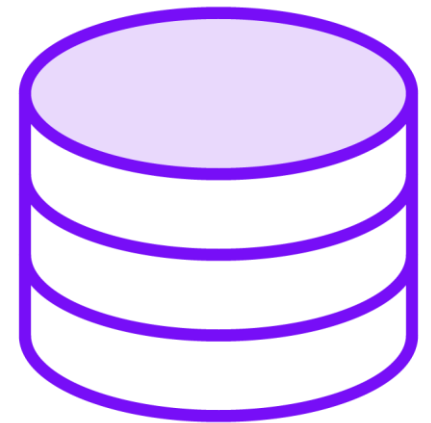
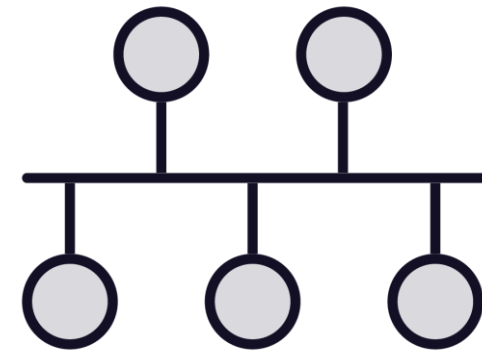
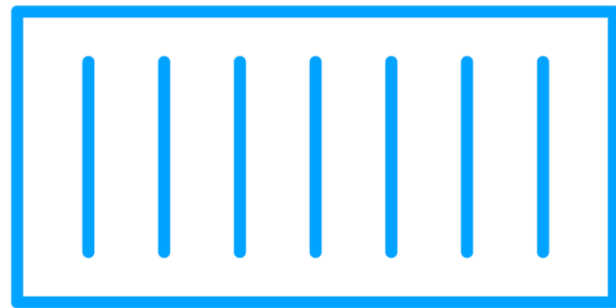


Nigel Poulton

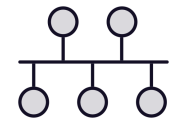
Author & Trainer

@nigelpoulton | www.nigelpoulton.com

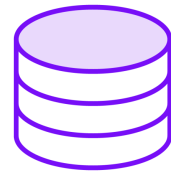




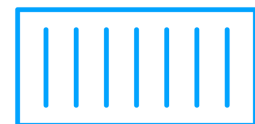
compose.yml



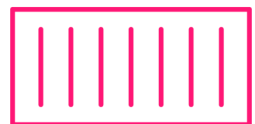
> networks:



> volumes:



> service:



> service:



> image:

Overview/ Summary



Docker Stacks Big Picture

Looking at the Compose File

Deploying and Managing Docker Stacks

Recap



Up Next:

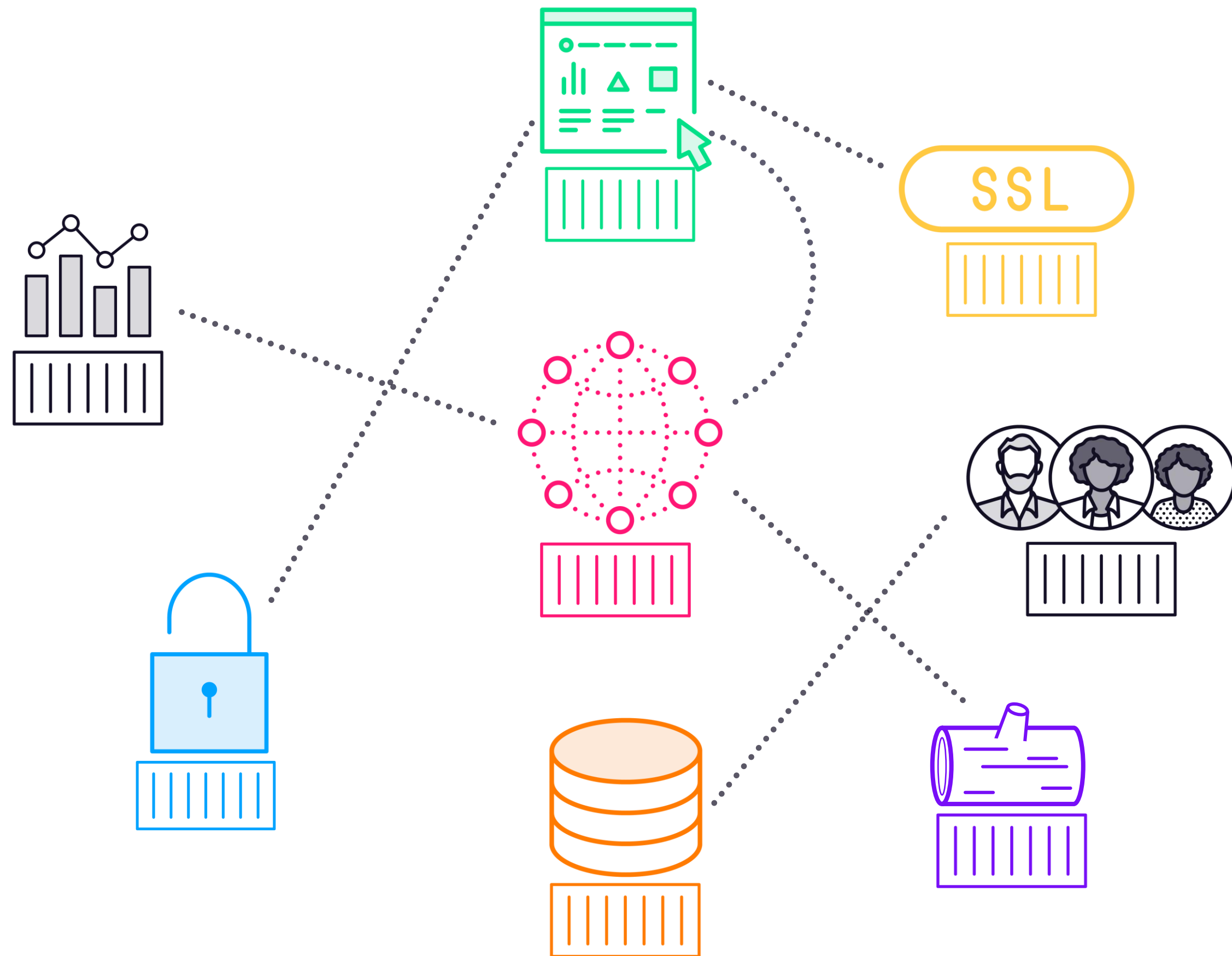
Docker Stacks Big Picture

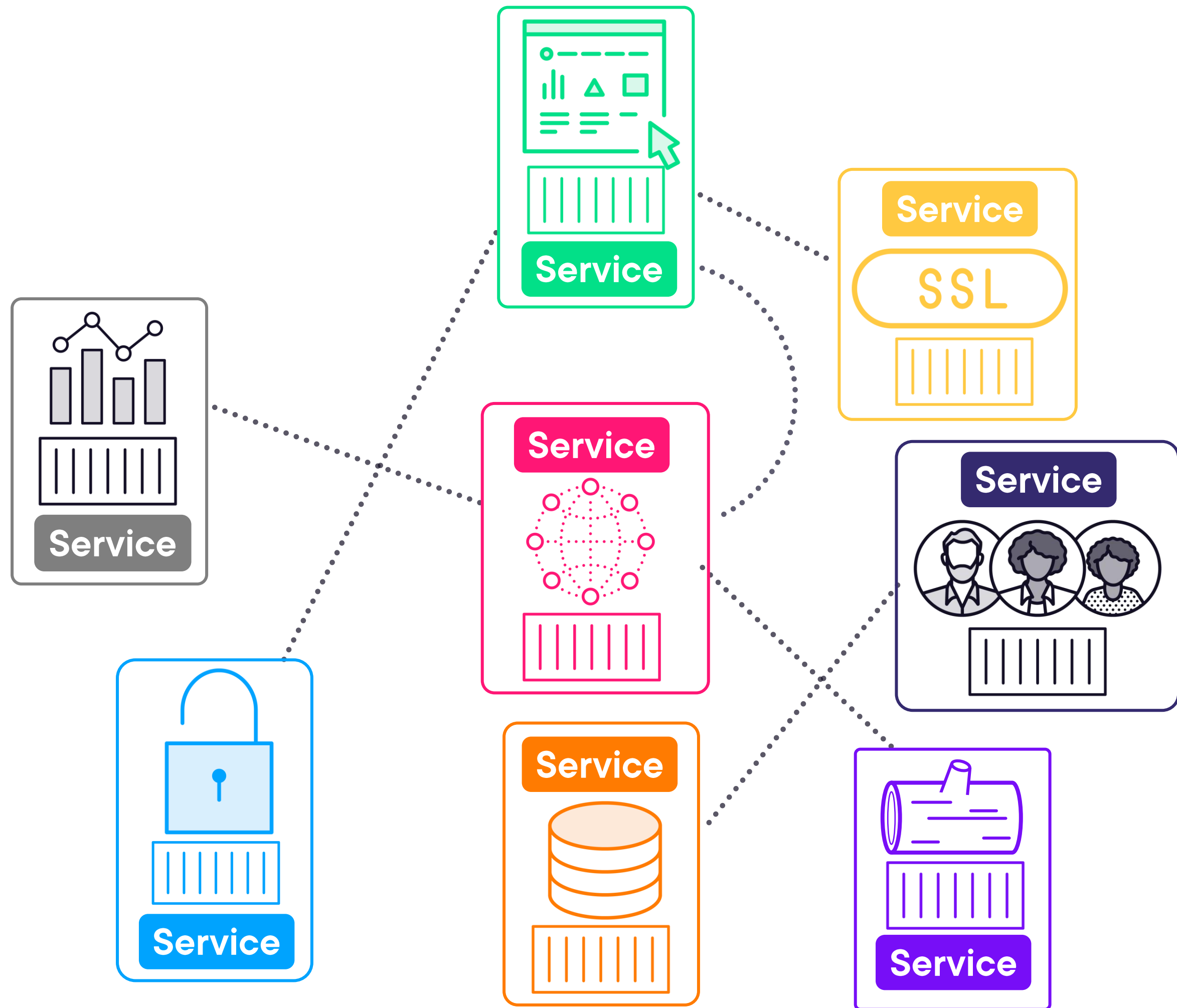




Docker Stacks Big Picture

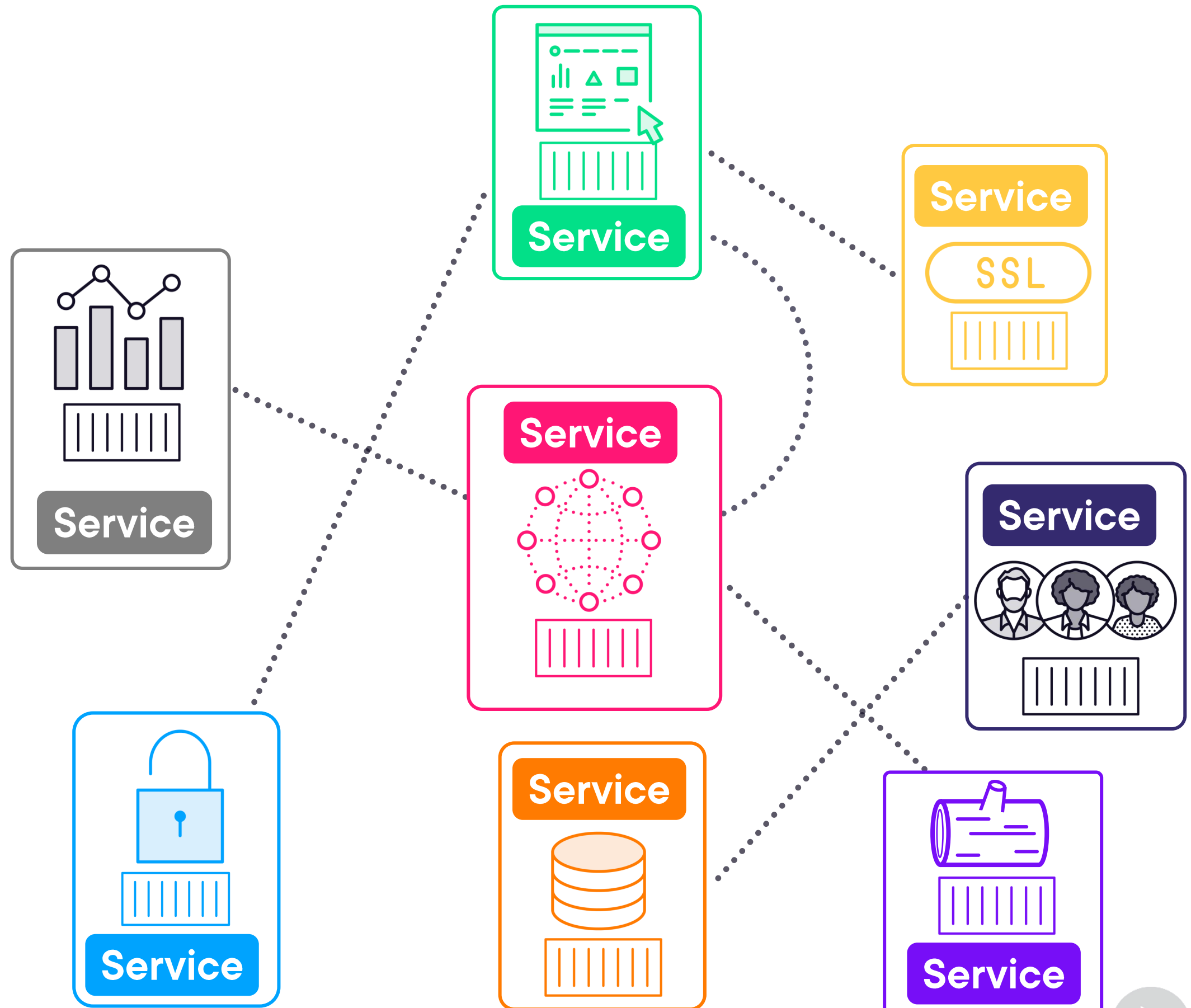






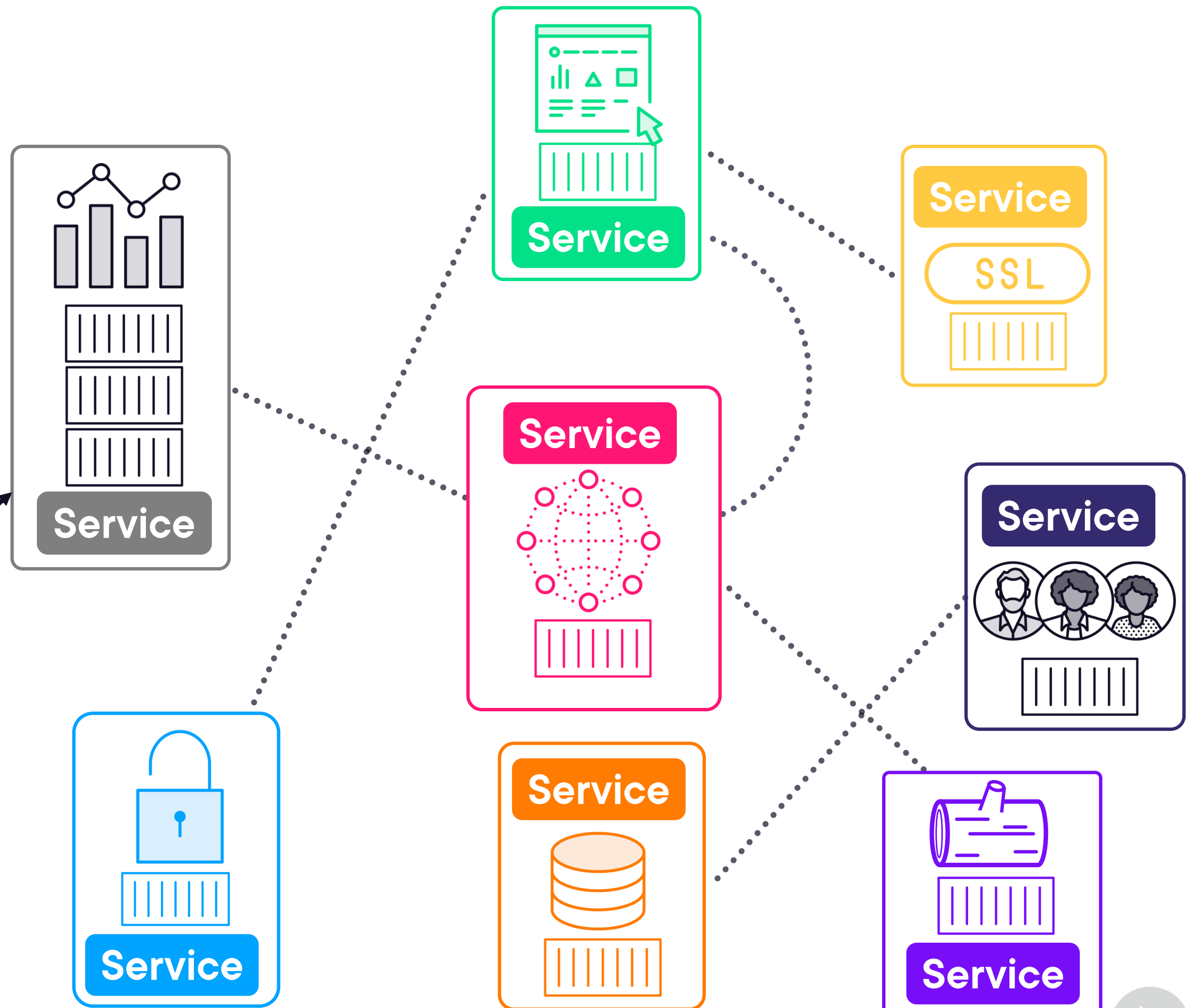
compose.yml

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



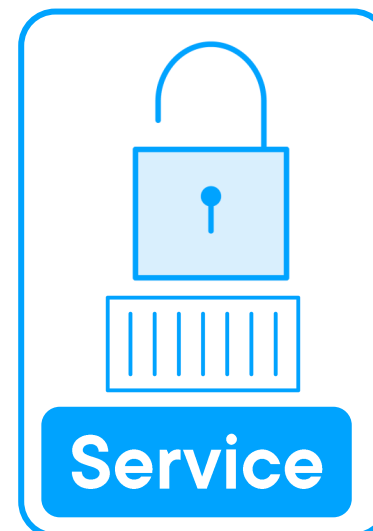
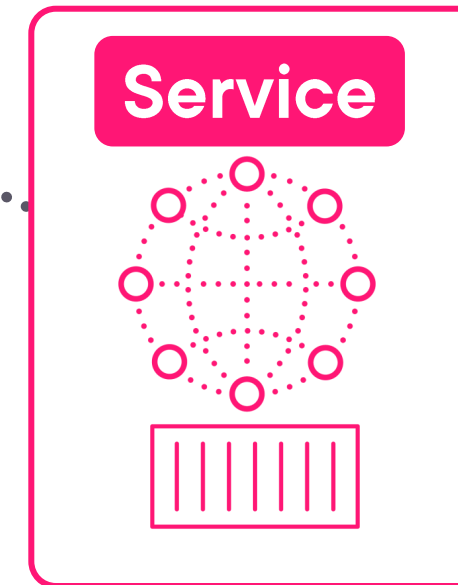
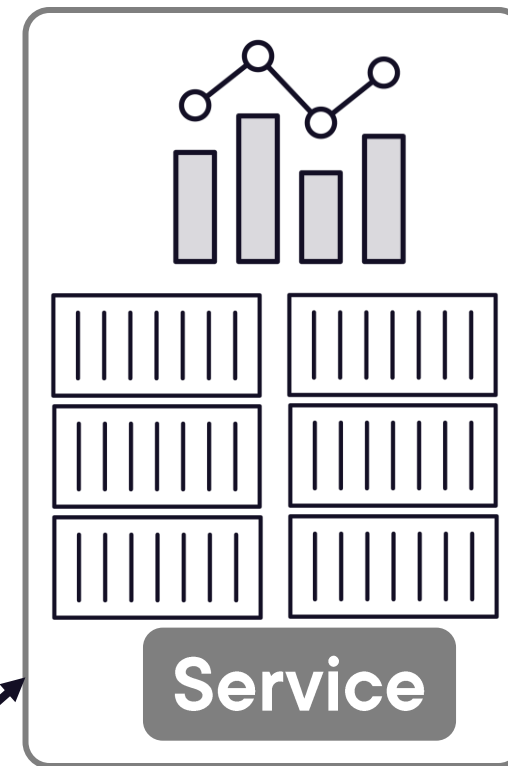
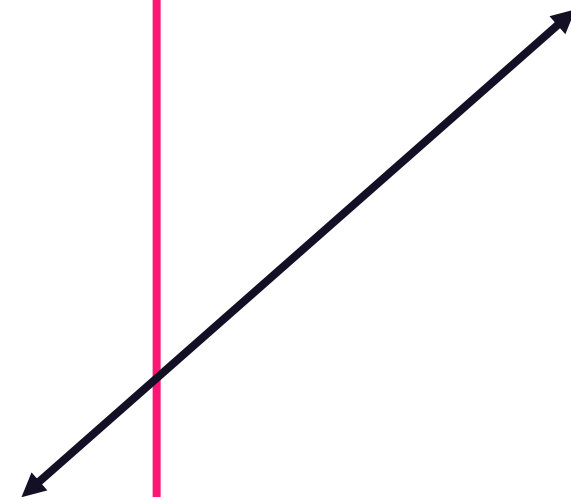
compose.yml

```
> 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:

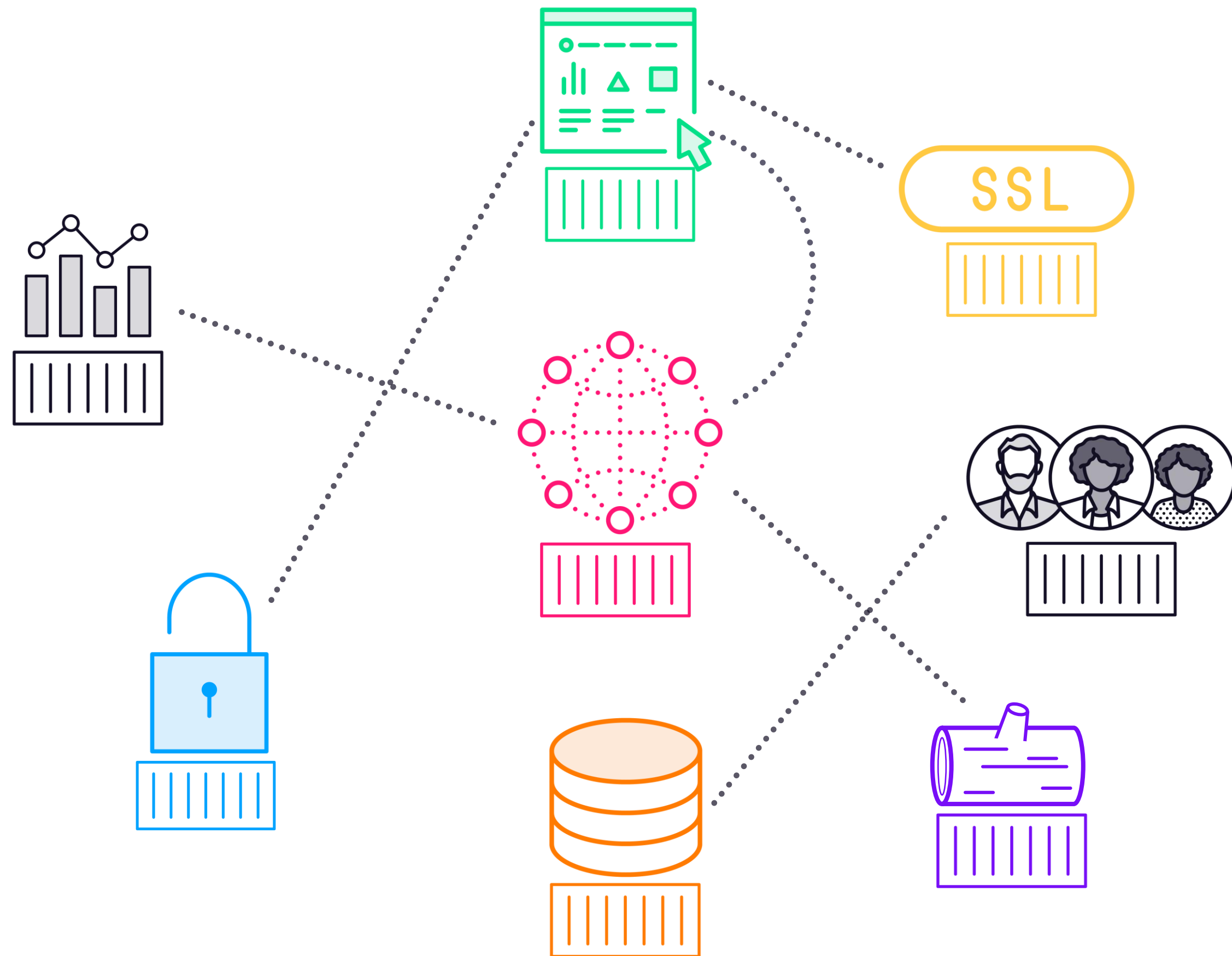
Recap

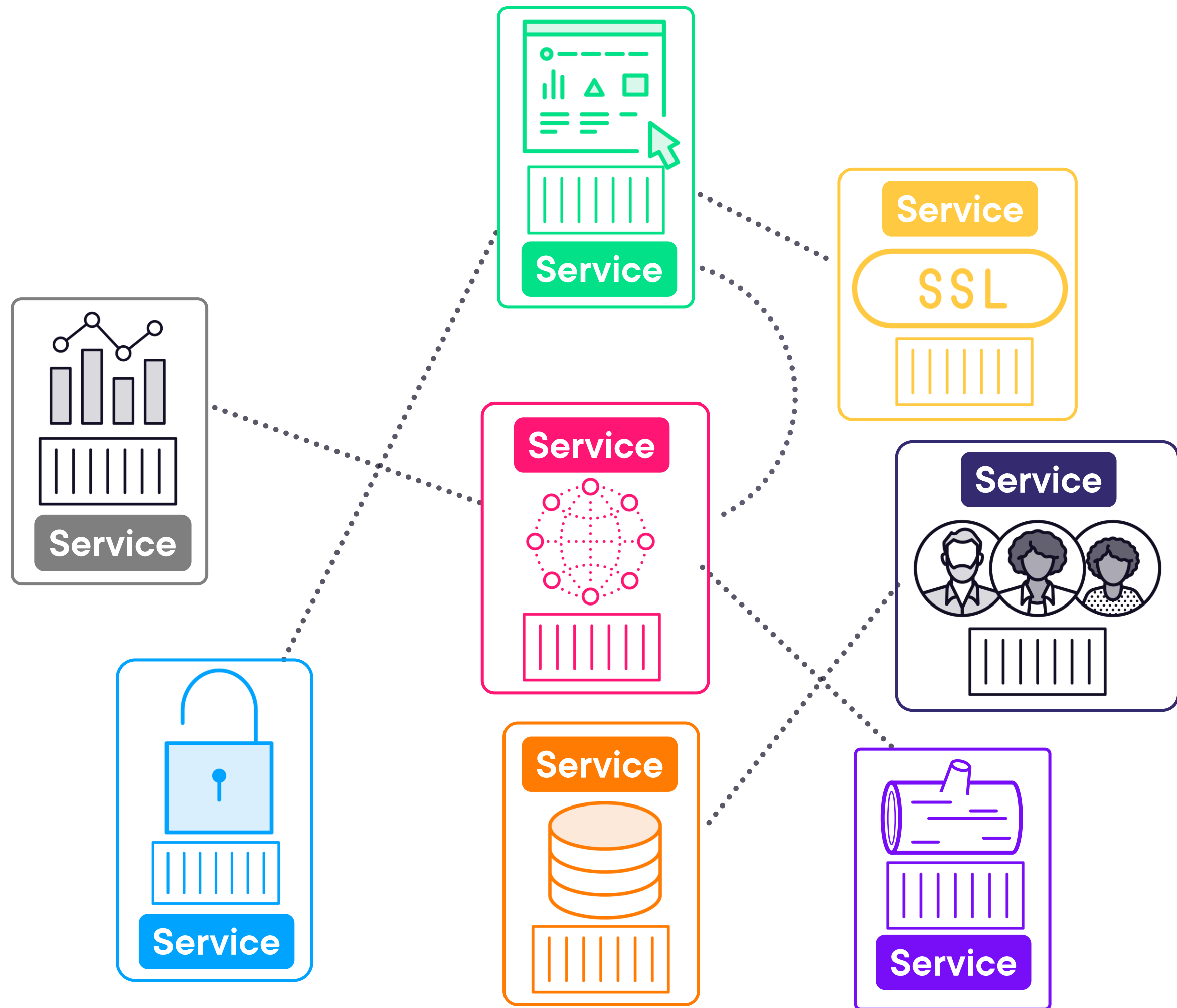




Recap

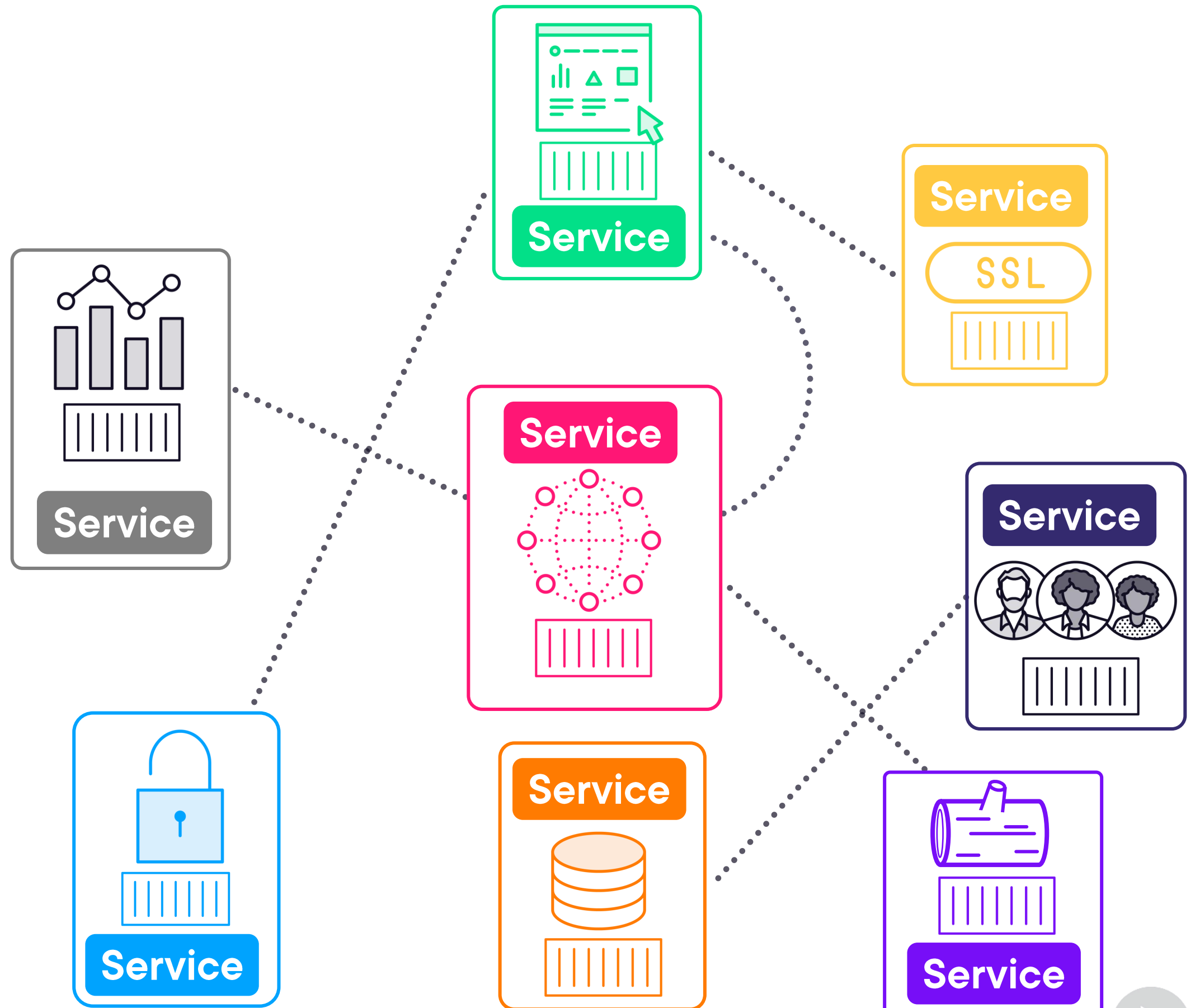


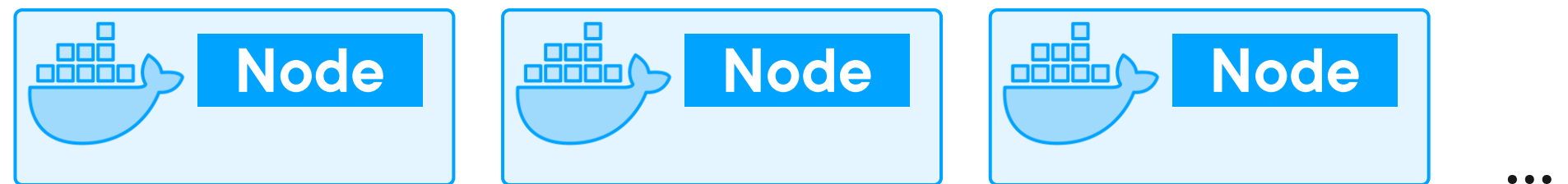
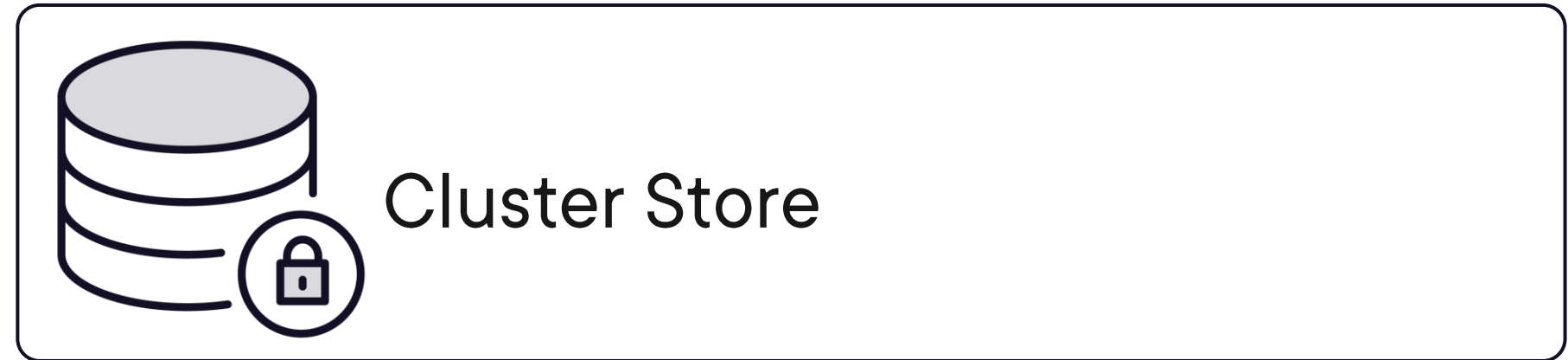




Desired State

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





Desired State

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





Desired State

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

```
$ docker stack deploy
```



Cluster Store

Desired State
replicas: 3
ver: pink



Node



Node

...





Desired State

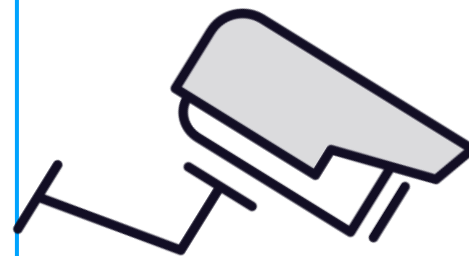
```
services:  
  web-fe:  
    replicas: 3  
    ...  
  ver: pink  
  ...
```

```
$ docker stack deploy
```



Cluster Store

Desired State
replicas: 3
ver: pink



web-fe



Node



Node



Node

...





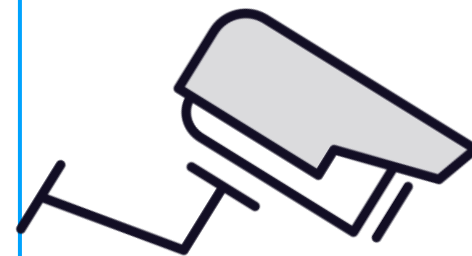
Desired State

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



Cluster Store

Desired State
replicas: 3
ver: pink



web-fe



Node



Node



Node

...





Desired State

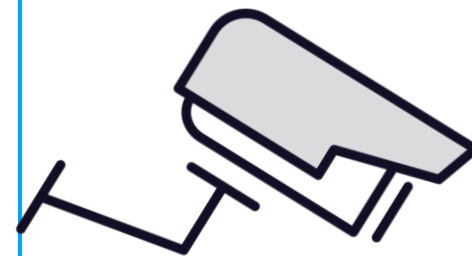
```
services:  
  web-fe:  
    replicas: 6  
    ...  
  ver: pink  
  ...
```

```
$ docker stack deploy
```



Cluster Store

Desired State
replicas: 3
ver: pink



web-fe



Node



Node



Node

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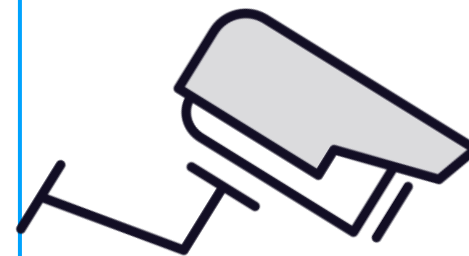
Desired State

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

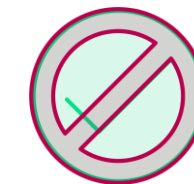


Cluster Store

Desired State
replicas: 6
ver: pink



web-fe



Node



Node



Node

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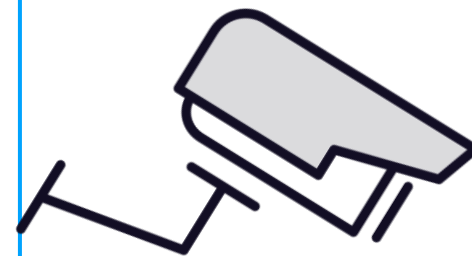
Desired State

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

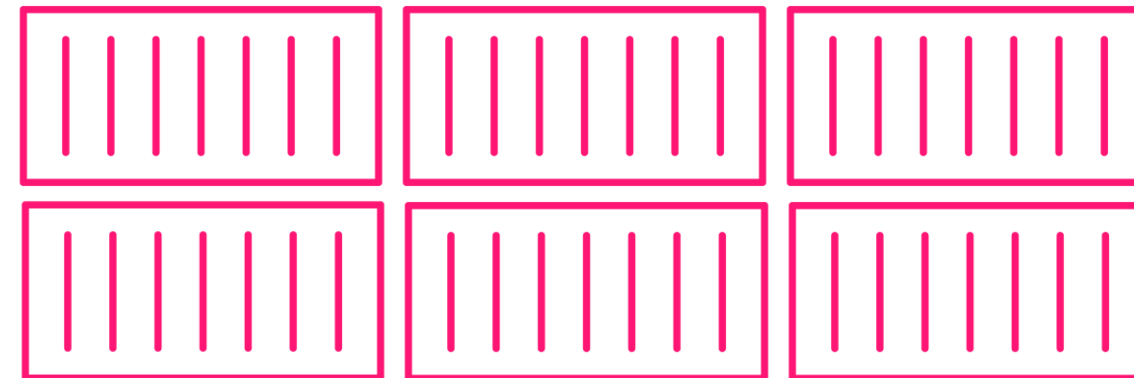


Cluster Store

Desired State
replicas: 6
ver: pink



web-fe



Node



Node



Node

...





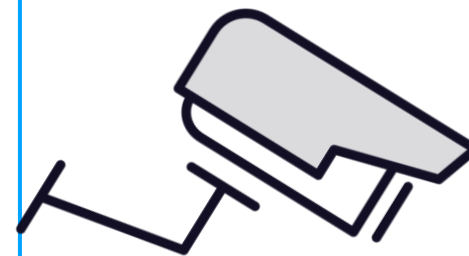
Desired State

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

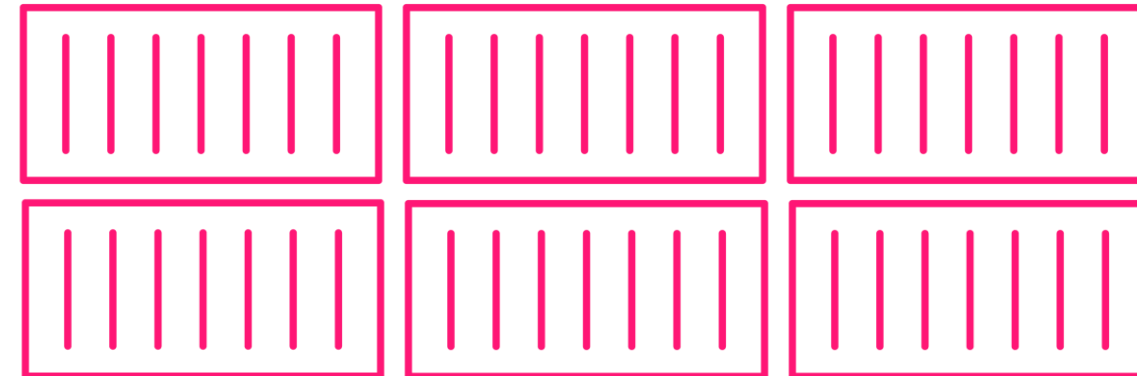


Cluster Store

Desired State
replicas: 6
ver: pink



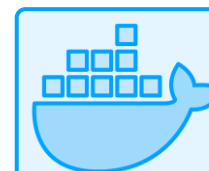
web-fe



Node



Node



Node

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Desired State

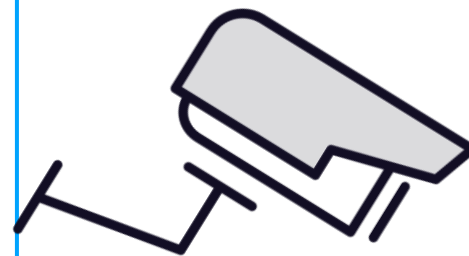
```
services:  
  web-fe:  
    replicas: 6  
    ...  
  ver: blue  
  ...
```

```
$ docker stack deploy
```

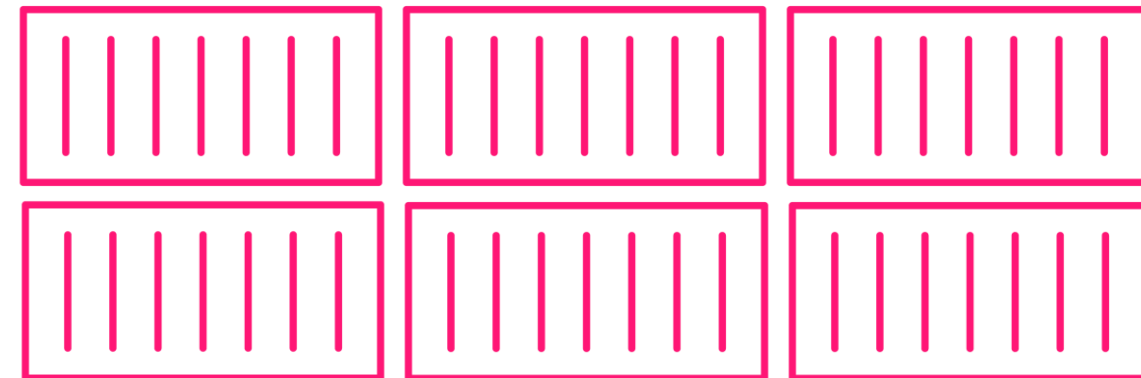


Cluster Store

Desired State
replicas: 6
ver: pink



web-fe



Node



Node



Node

...





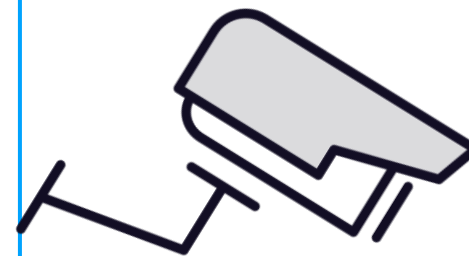
Desired State

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

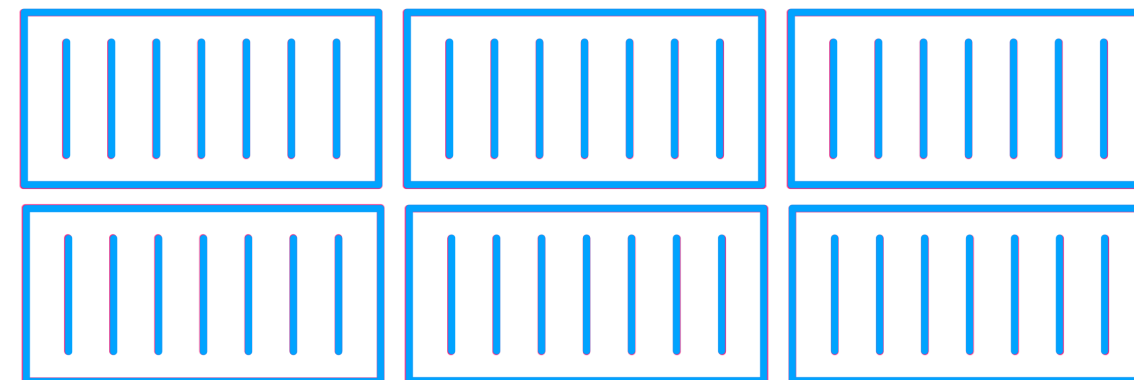
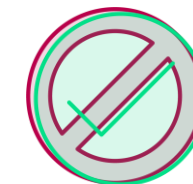


Cluster Store

Desired State
replicas: 6
ver: blue



web-fe



Node



Node



Node

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Up Next:

What Next

