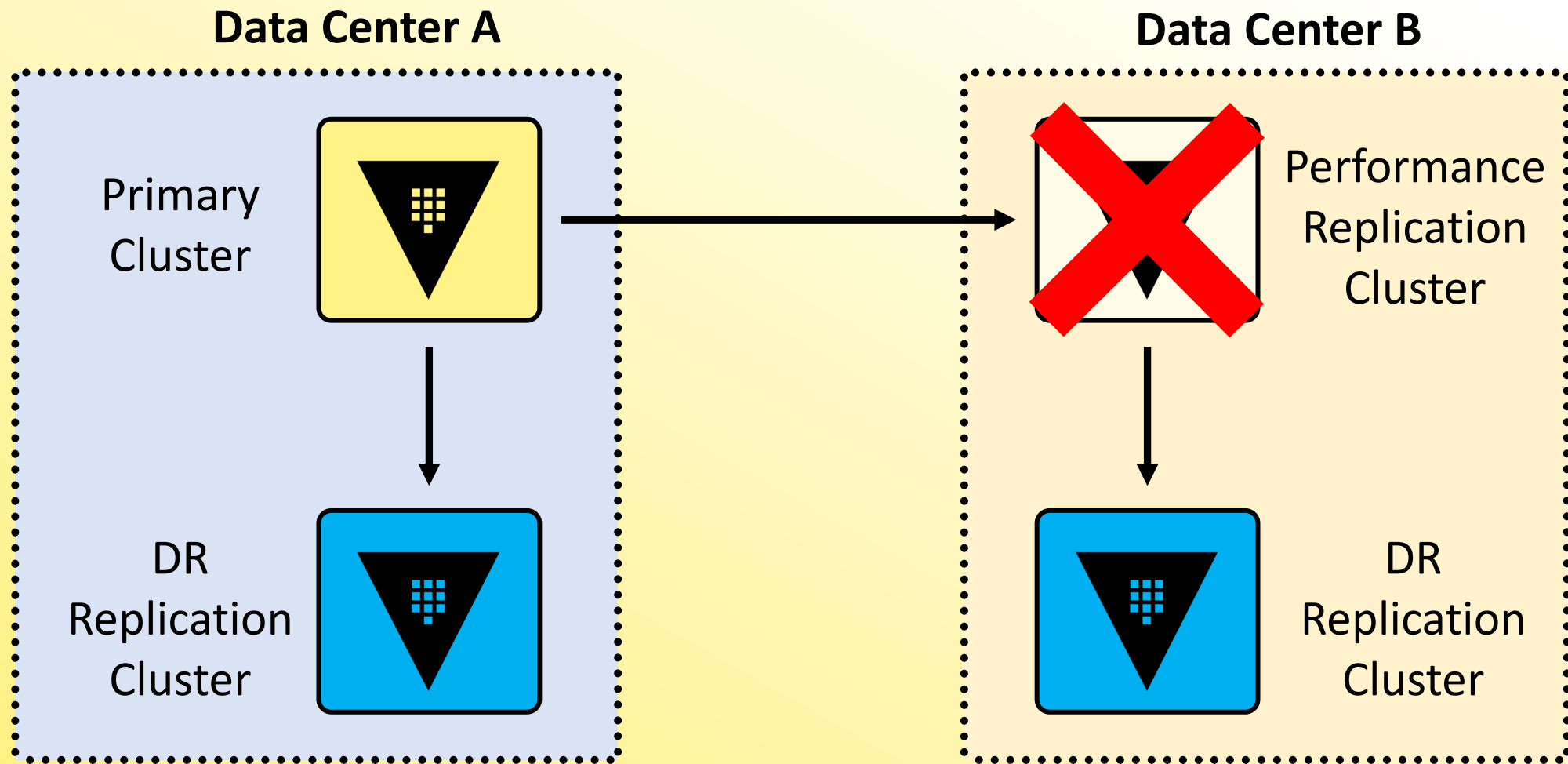




Promote a Secondary Cluster



Oh No...Our Cluster...It's Broken



Promote a Secondary to a Primary

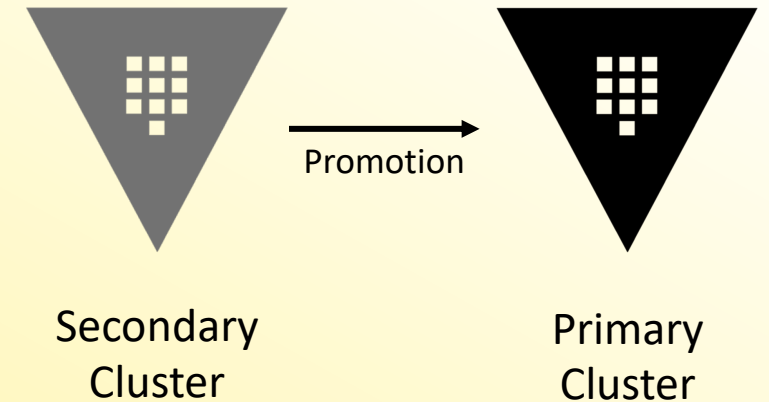
- Promotion of a DR cluster requires a **DR Operation Token**
 - This is generated directly on the DR cluster using the unseal/recovery keys
 - Process is similar to generating a root token (requires threshold of keys)
- Alternatively, you can create a DR Operation Batch Token on the primary **BEFORE** the failure
 - The idea is to have a valid token ready in the event of a failure
 - Reduces time to generate a DR Operation Token
 - BUT....you need to ensure the token TTL is valid



Promoting a Cluster

Once you have a token, you can use the token to promote the cluster

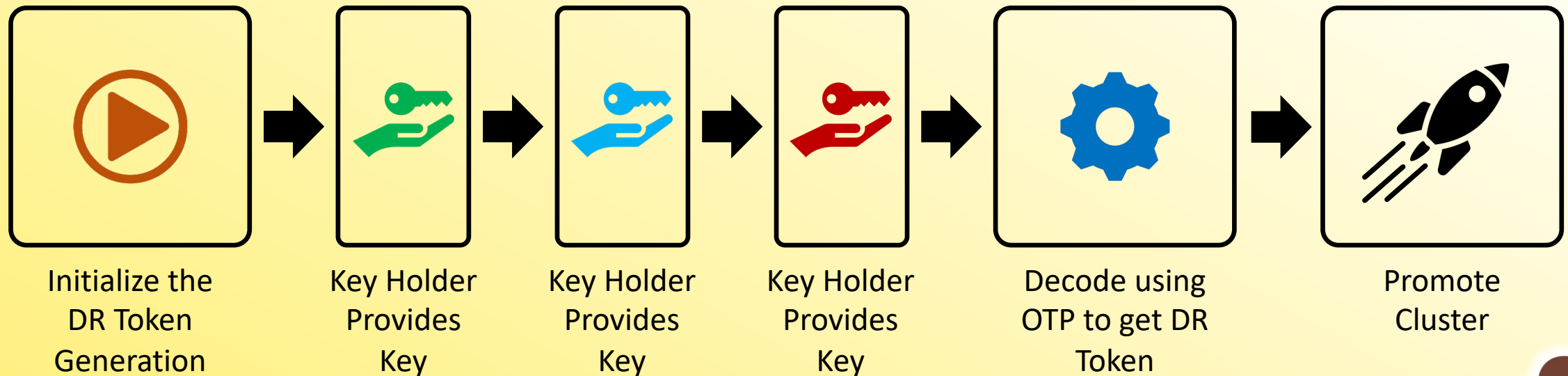
```
$ vault write sys/replication/dr/secondary/promote  
dr_operation_token=hvs.e5ANKEwwEC5KJDKA6cbDdLAB  
  
WARNING! The following warnings were returned from Vault:  
  
* This cluster is being promoted to a replication primary.  
Vault will be unavailable for a brief period and will resume  
service shortly.
```



How Do I Get a DR Operation Token?



Similar to a `generate-root` process, the process must be initialized, and each key holder will need to provide their key to meet the configured threshold



Initialize The Process



```
$ vault operator generate-root -dr-token -init
```

A One-Time-Password has been generated for you and is shown in the OTP field.
You will need this value to decode the resulting root token, so keep it safe.

Nonce	0ccf03cd-33b3-96db-577c-d5492c4cf909
Started	true
Progress	0/3
Complete	false
OTP	Frq1TtFmZp1iSD4VwNlRH8ccGm46
OTP Length	28



Provide the Keys



```
$ vault operator generate-root -dr-token
```

```
Operation nonce: 0ccf03cd-33b3-96db-577c-d5492c4cf909
```

```
Unseal Key (will be hidden):
```

```
Nonce 0ccf03cd-33b3-96db-577c-d5492c4cf909
```

```
Started true
```

```
Progress 1/3
```

```
Complete false
```

Enter First Unseal/Recovery Key Here



Provide the Keys



```
$ vault operator generate-root -dr-token
```

```
Operation nonce: 0ccf03cd-33b3-96db-577c-d5492c4cf909
```

```
Unseal Key (will be hidden):
```

```
Nonce          0ccf03cd-33b3-96db-577c-d5492c4cf909
```

```
Started        true
```

```
Progress       2/3
```

```
Complete       false
```

Enter Second Unseal/Recovery Key Here



Provide the Keys



```
$ vault operator generate-root -dr-token

Operation nonce: 0ccf03cd-33b3-96db-577c-d5492c4cf909
Unseal Key (will be hidden):
Nonce          0ccf03cd-33b3-96db-577c-d5492c4cf909
Started        true
Progress       3/3
Complete       true
Encoded Token   LgQCHzFBBYMRNUYeFgcBHT0KJxN+WwEnIyF1dA
```

Enter Third Unseal/Recovery Key Here



Decode the DR Operation Token



```
$ vault operator generate-root -dr-token /  
-decode="LgQCHzFBBYMRNUYefgcBHT0KJxN+WwEnIyF1dA" /  
-otp="Frq1TtFmZp1iSD4VwNlRH8ccGm46"
```

We got this from the final command

```
hvs.e5ANKEwwEC5KJDKA6cbDdLAB
```

We got this from the first command



Promote the Cluster



```
$ vault write sys/replication/dr/secondary/promote /  
  dr_operation_token=hvs.e5ANKEwwEC5KJDKA6cbDdLAB
```

Decoded Token

WARNING! The following warnings were returned from Vault:

* This cluster is being promoted to a replication primary. Vault will be unavailable for a brief period and will resume service shortly.

