

# HELM RELEASE IMAGE AUTOMATION



## FLUX V2 TRAINING SESSION

Jul 15th, 2021 Marco Amador

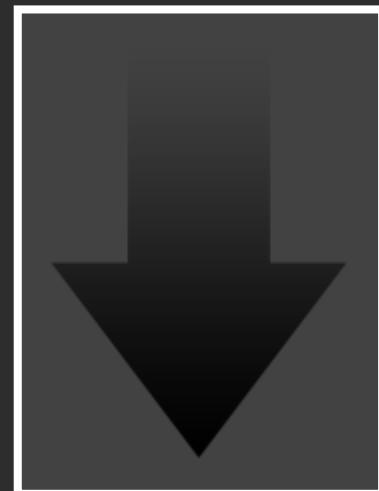
ANOVA

# GITOPS

GitOps is a way of managing your infrastructure and applications so that whole system is described declaratively and version controlled (most likely in a Git repository), and having an automated process that ensures that the deployed environment matches the state specified in a repository.

# FLUX V2

Core Concepts



# SOURCES

A Source defines the origin of a repository containing the desired state of the system and the requirements to obtain.

All sources are specified as Custom Resources in a Kubernetes cluster, examples of sources are *GitRepository*, *HelmRepository* and *Bucket* resources.

# KUSTOMIZATION

The Kustomization custom resource represents a local set of Kubernetes resources (e.g. kustomize overlay) that Flux is supposed to reconcile in the cluster.

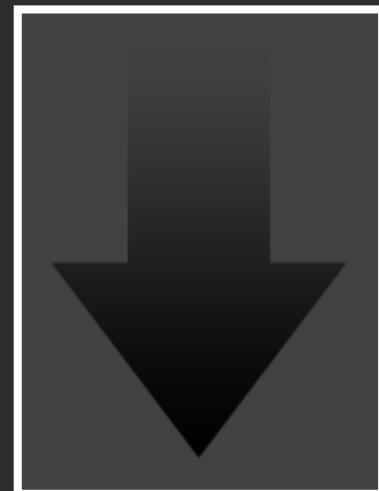
# RECONCILIATION

Reconciliation refers to ensuring that a given state (e.g. application running in the cluster, infrastructure) matches a desired state declaratively defined somewhere (e.g. a Git repository).



# FLUX V2

Core Components



# SOURCE CONTROLLER

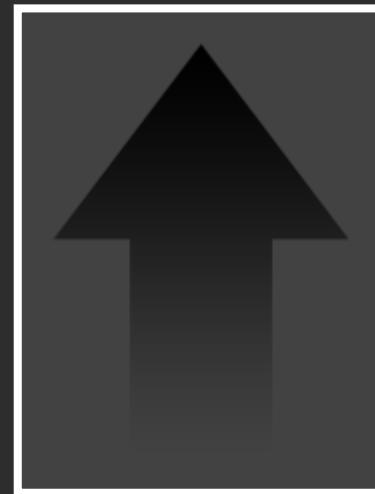
# KUSTOMIZE CONTROLLER

# HELM CONTROLLER

# IMAGE REFLECTOR CONTROLLER

# **IMAGE AUTOMATION CONTROLLER**

# NOTIFICATION CONTROLLER



# MAIN GIT SOURCE

```
1 apiVersion: source.toolkit.fluxcd.io/v1beta1
2 kind: GitRepository
3 metadata:
4   name: flux-system
5   namespace: flux-system
6 spec:
7   gitImplementation: libgit2
8   interval: 1m0s
9   ref:
10    branch: master
11   secretRef:
12    name: flux-system
13   url: ssh://git@ssh.dev.azure.com/v3/anovateam/Mapleleaf/c
```

# MAIN GIT SOURCE

```
1 apiVersion: source.toolkit.fluxcd.io/v1beta1
2 kind: GitRepository
3 metadata:
4   name: flux-system
5   namespace: flux-system
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12    name: flux-system
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```

# MAIN KUSTOMIZATION

```
1 apiVersion: kustomize.toolkit.fluxcd.io/v1beta1
2 kind: Kustomization
3 metadata:
4   name: flux-system
5   namespace: flux-system
6 spec:
7   interval: 10m0s
8   path: ./clusters/staging/northeurope
9   prune: true
10  sourceRef:
11    kind: GitRepository
12    name: flux-system
```

# MAIN KUSTOMIZATION

```
1 apiVersion: kustomize.toolkit.fluxcd.io/v1beta1
2 kind: Kustomization
3 metadata:
4   name: flux-system
5   namespace: flux-system
6 spec:
7   interval: 10m0s
8   path: ./clusters/staging/northeurope
9   prune: true
10  sourceRef:
11    kind: GitRepository
12    name: flux-system
```

# MAIN KUSTOMIZATION

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2 kind: Kustomization
3 metadata:
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6 spec:
7   interval: 10m0s
8   path: ./clusters/staging/northeurope
9   prune: true
10  sourceRef:
11    kind: GitRepository
12    name: flux-system
```

# FLUX RESOURCES

```
1 kubectl get kustomization --all-namespaces  
2  
3 kubectl get gitrepositories --all-namespaces  
4  
5 kubectl get helmrepository --all-namespaces
```

# FLUX RESOURCES

```
1 kubectl get kustomization --all-namespaces  
2  
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# FLUX RESOURCES

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1 kubectl get kustomization --all-namespaces  
2  
3 kubectl get gitrepositories --all-namespaces  
4  
5 kubectl get helmrepository --all-namespaces
```

# INSTALL FLUX CLI

With Homebrew:

```
brew install fluxcd/tap/flux
```

With Bash:

```
curl -s https://toolkit.fluxcd.io/install.sh | sudo bash
```

Verify that your cluster satisfies the prerequisites with:

```
flux check --pre
```

# FLUX CLI

```
1 flux get kustomizations --all-namespaces
2
3 flux get sources git --all-namespaces
4
5 flux get sources helm --all-namespaces
```

# FLUX CLI

```
1 flux get kustomizations --all-namespaces
2
3 flux get sources git --all-namespaces
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5 flux get sources helm --all-namespaces
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# FLUX CLI

```
1 flux get kustomizations --all-namespaces
2
3 flux get sources git --all-namespaces
4
5 flux get sources helm --all-namespaces
```

# FLUX RECONCILIATION

```
1 flux reconcile kustomization core -n core
2
3 flux reconcile source git core -n core
4
5 flux reconcile helmrelease identity -n core
```

# FLUX RECONCILIATION

```
1 flux reconcile kustomization core -n core
2
3 flux reconcile source git core -n core
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# FLUX RECONCILIATION

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# FLUX RECONCILIATION

```
1 flux reconcile kustomization core -n core
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3 flux reconcile source git core -n core
4
5 flux reconcile helmrelease identity -n core
```

# GITOPS REPOS

- gitops-live
- gitops-core
- gitops-transform
- gitops-data

# OWNERSHIP

Repo	Team	Project
gitops-live	Infra/Data	Platform
gtiops-core	Core / SM	Core and
gitops-transform	Transform	Transform
gitops-data	Data	Data

# PLATFORM STRUCTURE

gitops-live

```
1 └── clusters
2     ├── production
3     │   └── eastus
4     │       └── norteurope
5     └── staging
6         └── eastus
7             └── northeurope
8 └── operations
9     ├── manifests
10    │   ├── production
11    │   └── staging
12    └── releases
13        ├── production
14        └── staging
15 └── policies
```

# PLATFORM STRUCTURE

gitops-live

```
1 └── clusters
2     ├── production
3     │   └── eastus
4     │       └── norteurope
5     └── staging
6         └── eastus
7             └── northeurope
8 └── operations
9     ├── manifests
10    └── production
11        └── staging
12    └── releases
13        └── production
14        └── staging
15 └── policies
```

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gitops-live

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1 └── clusters
2     ├── production
3     │   └── eastus
4     │       └── norteurope
5     └── staging
6         └── eastus
7             └── northeurope
8 └── operations
9     ├── manifests
10    └── production
11        └── staging
12    └── releases
13        └── production
14        └── staging
15 └── policies
```

# PLATFORM STRUCTURE

gitops-live

```
1 └── clusters
2     ├── production
3     │   └── eastus
4     │       └── norteurope
5     └── staging
6         ├── eastus
7         └── northeurope
8 └── operations
9     ├── manifests
10    │   ├── production
11    │   └── staging
12    └── releases
13        ├── production
14        └── staging
15 └── policies
```

# PLATFORM STRUCTURE

gitops-live

```
3   ┌── eastus
4   │   └── norteurope
5   └── staging
6       ┌── eastus
7       │   └── northeurope
8   └── operations
9       ┌── manifests
10      └── production
11          ┌── staging
12          └── releases
13              ┌── production
14              └── staging
15          └── policies
16          └── tenants
17              └── base
```

# PLATFORM STRUCTURE

gitops-live

```
6      ┌── eastus
7      └── northeurope
8 ┌── operations
9   ├── manifests
10  └── production
11    └── staging
12 └── releases
13   ├── production
14   └── staging
15 └── policies
16 └── tenants
17   └── base
18   |   ├── core
19   |   └── data
```

# PLATFORM STRUCTURE

gitops-live

```
8 └── operations
9   ├── manifests
10  │   ├── production
11  │   └── staging
12  └── releases
13    ├── production
14    └── staging
15 └── policies
16   └── tenants
17     └── base
18       ├── core
19       ├── data
20       └── transform
21       └── production
```

# PLATFORM STRUCTURE

gitops-live

```
9   └── manifests
10    ├── production
11    └── staging
12  └── releases
13    ├── production
14    └── staging
15 └── policies
16 └── tenants
17   └── base
18     ├── core
19     ├── data
20     └── transform
21   └── production
22     └── eastus
23     ...
24
```

# PLATFORM STRUCTURE

gitops-live

```
12   └── releases
13     └── production
14       └── staging
15   └── policies
16   └── tenants
17   └── base
18     └── core
19       └── data
20         └── transform
21   └── production
22     └── eastus
23       └── norteurope
24   └── staging
25     └── eastus
```

# PLATFORM STRUCTURE

gitops-live

```
12      └── releases
13          └── production
14              └── staging
15      └── policies
16      └── tenants
17          └── base
18              ├── core
19              │   └── data
20                  └── transform
21          └── production
22              └── eastus
23                  └── northeurope
24          └── staging
25              └── eastus
26                  └── northeurope
```

# TENANTS STRUCTURE

gitops-<tenant>

```
1 └── _automation
2 └── _sources
3 └── base
4     ├── kustomization.yaml
5     ├── my-release.yaml
6     └── my-other-release.yaml
7 └── production
8     └── eastus
9         ├── kustomization.yaml
10        ├── my-release-patch.yaml
11        ├── my-release-patch-generated.yaml
12        ├── my-other-release-patch.yaml
13        └── my-other-release-patch-generated.yaml
14 └── northeurope
15     └── kustomization.yaml
```

# TENANTS STRUCTURE

gitops-<tenant>

```
1 └── _automation
2 └── _sources
3 └── base
4     ├── kustomization.yaml
5     ├── my-release.yaml
6     └── my-other-release.yaml
7 └── production
8     └── eastus
9         ├── kustomization.yaml
10        ├── my-release-patch.yaml
11        ├── my-release-patch-generated.yaml
12        ├── my-other-release-patch.yaml
13        └── my-other-release-patch-generated.yaml
14     └── northeurope
15         ├── kustomization.yaml
```

# TENANTS STRUCTURE

gitops-<tenant>

```
1 └── _automation
2 └── _sources
3 └── base
4     ├── kustomization.yaml
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13        └── my-other-release-patch-generated.yaml
14     └── northeurope
15         ├── kustomization.yaml
```

# TENANTS STRUCTURE

gitops-<tenant>

```
3   base
4   |   └── kustomization.yaml
5   |
6   |   └── my-release.yaml
7   |
8   └── production
9     └── eastus
10    |   └── kustomization.yaml
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13    |   └── my-other-release-patch.yaml
14    |   └── my-other-release-patch-generated.yaml
15    └── northeurope
16      └── kustomization.yaml
17      └── my-release-patch.yaml
18      └── my-release-patch-generated.yaml
```

# TENANTS STRUCTURE

# gitops-<tenant>

# TENANTS STRUCTURE

gitops-<tenant>

```
17 |           └── my-release-patch-generated.yaml  
18 |   └── my-other-release-patch.yaml  
19 |   └── my-other-release-patch-generated.yaml  
20 └── staging  
21   └── eastus  
22     ├── kustomization.yaml  
23     ├── my-release-patch.yaml  
24     ├── my-release-patch-generated.yaml  
25     ├── my-other-release-patch.yaml  
26     └── my-other-release-patch-generated.yaml  
27   └── northeurope  
28     ├── kustomization.yaml  
29     ├── my-release-patch.yaml  
30     └── my-release-patch-generated.yaml
```

# TENANTS STRUCTURE

gitops-<tenant>

```
18      └── my-other-release-patch.yaml  
19          └── my-other-release-patch-generated.yaml  
20  └── staging  
21      └── eastus  
22          ├── kustomization.yaml  
23          ├── my-release-patch.yaml  
24          ├── my-release-patch-generated.yaml  
25          └── my-other-release-patch.yaml  
26              └── my-other-release-patch-generated.yaml  
27  └── northeurope  
28      ├── kustomization.yaml  
29      ├── my-release-patch.yaml  
30      ├── my-release-patch-generated.yaml  
31      └── my-other-release-patch.yaml  
32          └── my-other-release-patch-generated.yaml
```

## app-base.yaml

```
1 apiVersion: helm.toolkit.fluxcd.io/v2beta1
2 kind: HelmRelease
3 metadata:
4   name: my-app
5 spec:
6   releaseName: my-app
7   serviceAccountName: my-tenant
8   chart:
9     spec:
10    chart: anova-k8s-deployment
11    sourceRef:
12      kind: GitRepository
13      name: anova-helm-chart-stable
14    interval: 5m
15    install:
```

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## app-base.yaml

```
3  metadata:
4      name: my-app
5  spec:
6      releaseName: my-app
7      serviceAccountName: my-tenant
8      chart:
9          spec:
10         chart: anova-k8s-deployment
11         sourceRef:
12             kind: GitRepository
13             name: anova-helm-chart-stable
14     interval: 5m
15     install:
16         remediation:
17             retries: 3
18     values:
```

## app-base.yaml

```
6   releaseName: my-app
7   serviceAccountName: my-tenant
8   chart:
9     spec:
10    chart: anova-k8s-deployment
11    sourceRef:
12      kind: GitRepository
13      name: anova-helm-chart-stable
14    interval: 5m
15    install:
16      remediation:
17      retries: 3
18    values:
19      migrations:
20        enabled: true
```

## app-patch.yaml

```
1 apiVersion: helm.toolkit.fluxcd.io/v2beta1
2 kind: HelmRelease
3 metadata:
4   name: my-app
5 spec:
6   values:
7     environment: staging
8     region: ue
9     image:
10       repository: acrmapleleafstag.azurecr.io/my-app
11       tag: 0.1.82 # {"$imagepolicy": "data:staging-ue-my-ap"
12     - name: LOGLEVEL
13       value: DEBUG
```

## app-patch.yaml

```
1 apiVersion: helm.toolkit.fluxcd.io/v2beta1
2 kind: HelmRelease
3 metadata:
4   name: my-app
5 spec:
6   values:
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12     - name: LOGLEVEL
13       value: DEBUG
```

## kustomization.yaml

```
1 apiVersion: kustomize.config.k8s.io/v1beta1
2 kind: Kustomization
3 namespace: data
4 resources:
5 - app-base.yaml
6 patchesStrategicMerge:
7 - app-patch.yaml
8 - app-patch-generated.yaml
```

## kustomization.yaml

```
1 apiVersion: kustomize.config.k8s.io/v1beta1
2 kind: Kustomization
3 namespace: data
4 resources:
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6 patchesStrategicMerge:
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1 apiVersion: kustomize.config.k8s.io/v1beta1
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4 resources:
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```

```
kustomize build .
```

```
1 apiVersion: helm.toolkit.fluxcd.io/v2beta1
2 kind: HelmRelease
3 metadata:
4   name: my-app
5 spec:
6   releaseName: my-app
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8   chart:
9     spec:
10    chart: anova-k8s-deployment
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11    sourceRef:
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14    interval: 5m
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```

```
kustomize build .

11   sourceRef:
12     kind: GitRepository
13     name: anova-helm-chart-stable
14   interval: 5m
15   install:
16     remediation:
17     retries: 3
18   values:
19     migrations:

20       enabled: true
21   environment: staging
22   region: ue
23   image:
24     repository: acrmapleleafstag.azurecr.io/my-app
25     tag: v1.0.0
```

```
kustomize build .

--          -----
13      name: anova-helm-chart-stable
14  interval: 5m
15  install:
16    remediation:
17    retries: 3
18  values:
19    migrations:

20    enabled: true
21  environment: staging
22  region: ue
23  image:
24    repository: acrmapleleafstag.azurecr.io/my-app
25    tag: 0.1.82 # {"$imagepolicy": "data:staging-ue-my-ap
26  - name: LOGLEVEL
```

```
kustomize build .

 13      name: anova-neim-charts-stable
14    interval: 5m
15  install:
16    remediation:
17      retries: 3
18  values:
19    migrations:

20      enabled: true
21  environment: staging
22  region: ue
23  image:
24    repository: acrmapleleafstag.azurecr.io/my-app
25    tag: 0.1.82 # {"$imagepolicy": "data:staging-ue-my-ap
26  - name: LOGLEVEL
27    value: DEBUG
```



```
1 > k get imagerespository my-app
2 NAME                      LAST SCAN          TAGS
3 my-app                    2021-07-14T18:42:53Z  20
```

```
1 > k get imagerespository my-app
2 NAME                      LAST SCAN          TAGS
3 my-app                    2021-07-14T18:42:53Z  20
```

```
1 > k get imagerespository my-app -oyaml
2 apiVersion: image.toolkit.fluxcd.io/v1beta1
3 kind: ImageRepository
4 metadata:
5   name: my-app
6   namespace: data
7 spec:
8   image: myacr.azurecr.io/my-app
9   interval: 5m0s
```

```
1 > k get imageupdateautomation tenant -n tenant -oyaml
2 piVersion: image.toolkit.fluxcd.io/v1beta1
3 kind: ImageUpdateAutomation
4 metadata:
5   name: tenant
6   namespace: tenant
7 spec:
8   git:
9     checkout:
10    ref:
11      branch: master
12    commit:
13    author:
14      email: fluxcdbot@users.noreply.github.com
15      name: fluxcdbot
```



flux

## Community

The Flux project aspires to be the vendor-neutral home for GitOps in a Cloud Native world. What we achieved up until today is only possible because of our community.



**GitHub Discussions**  
Join the conversation in GitHub Discussions. Everything Flux v2 related ranging from specifications and feature planning to Show & Tell happens here.



**Slack**  
If you want to talk to the Flux team and community in real-time, join us on Slack. This is a great way to get to know everyone. Get a Slack invite, or go to the #flux channel.



**Mailing list**  
Join our (low-traffic) mailing list to stay up to day on announcements and sporadic discussions.

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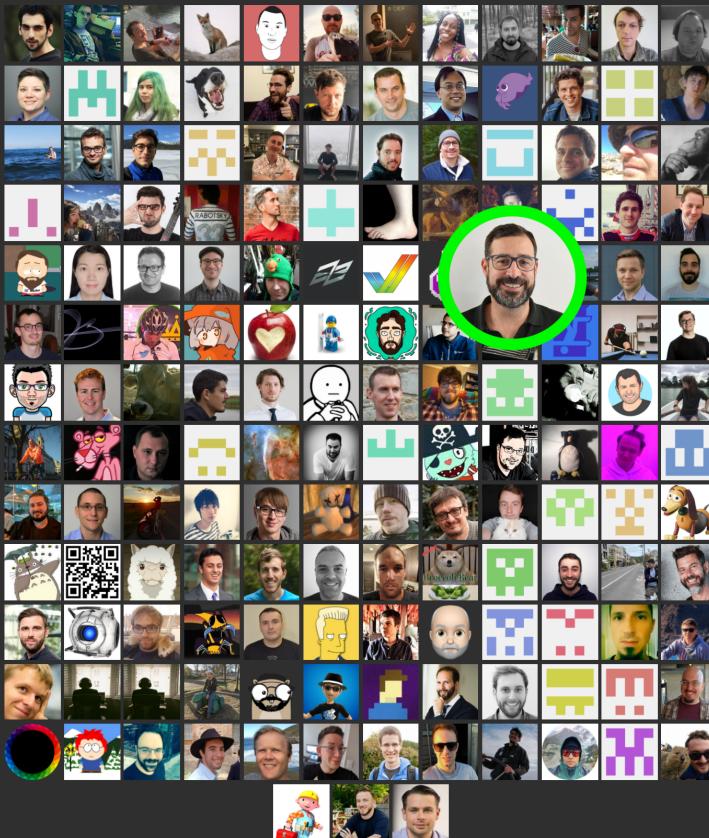


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*“Give GitOps and Kubernetes and I'll  
scale the World.”*

*MArchimedes*



*“Give GitOps and Kubernetes and I'll  
scale the World.”*

*MArchimedes*

**THE END**