Git Sync with regional replication

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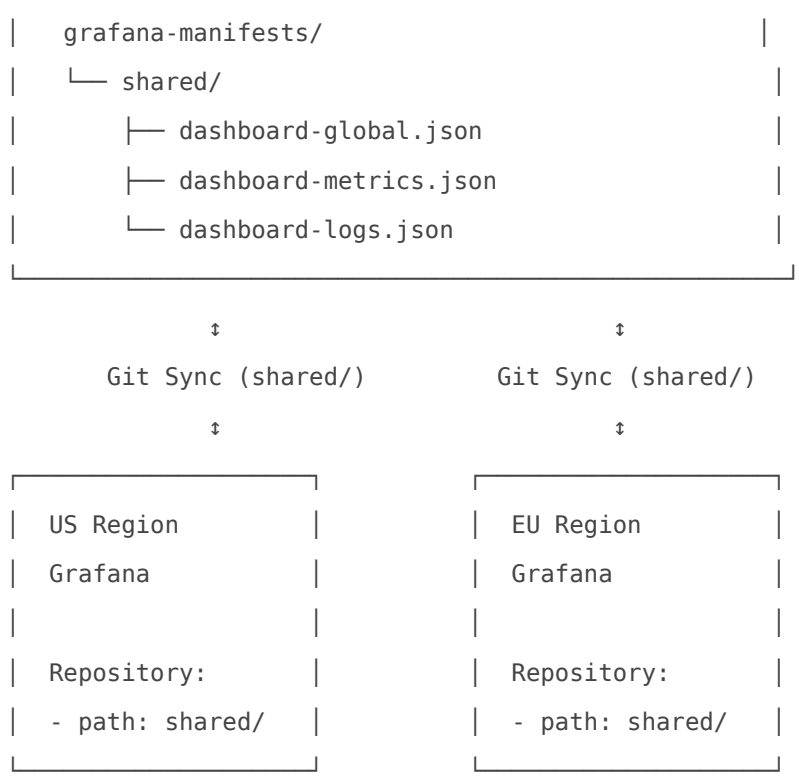
Deploy multiple Grafana instances across regions. Synchronize them with the same Git location to ensure consistent dashboards everywhere.

Use it for

- **Geographic distribution**: You deploy Grafana close to users in different regions.
- **Latency reduction**: Users need fast dashboard access from their location.
- **Data sovereignty**: You keep dashboard data in specific regions.
- **High availability**: You need dashboard availability across regions.
- **Consistent experience**: All users see the same dashboards regardless of region.

Architecture





Repository structure

In Git:

```
your-org/grafana-manifests
└── shared/
    ├── dashboard-global.json
    ├── dashboard-metrics.json
    └── dashboard-logs.json
```

In Grafana Dashboards view (all regions):

```
Dashboards
└── □□grafana-manifests/
    ├── Global Dashboard
    ├── Metrics Dashboard
    └── Logs Dashboard
```

- All regional instances (US, EU, etc.) show identical folder structure
- Same folder name "grafana-manifests" in every region
- Same dashboards synced from the `shared/` path appear everywhere
- Users in any region see the exact same dashboards with the same titles

Configuration parameters

All regions:

- Repository: `your-org/grafana-manifests`
- Branch: `main`
- Path: `shared/`

How it works

1. All regional instances pull dashboards from `shared/`.
2. Any region’s change commits to Git.
3. Other regions pull updates during the next sync (or via webhooks).
4. Changes propagate across regions per sync interval.

Considerations

- **Write conflicts**: If users in different regions modify the same dashboard simultaneously, Git uses last-write-wins.
- **Primary region**: Consider designating one region as the primary location for making dashboard changes.
- **Propagation time**: Changes propagate to all regions within the configured sync interval, or instantly if webhooks are configured.
- **Network reliability**: Ensure all regions have reliable connectivity to the Git repository.

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