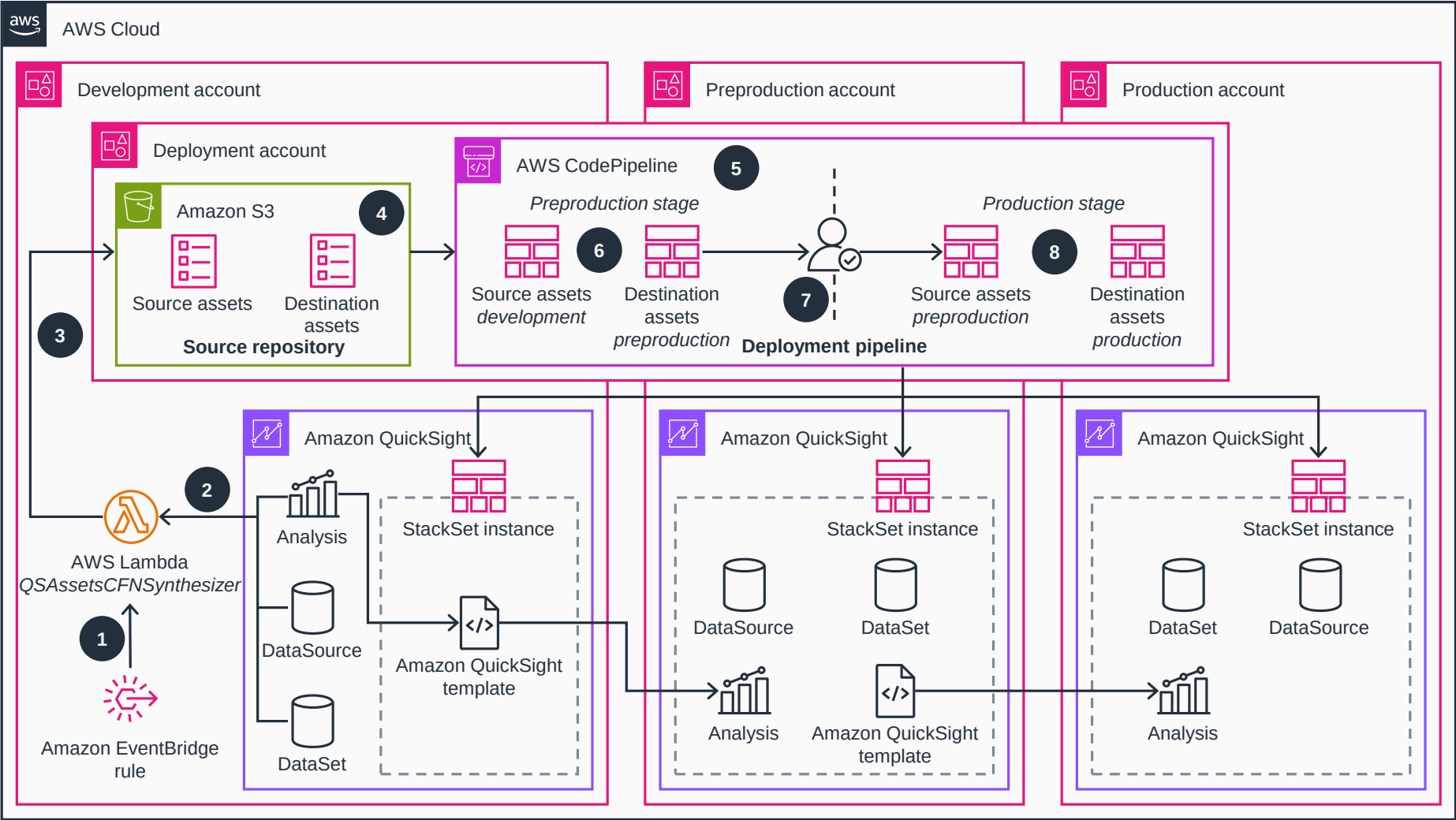


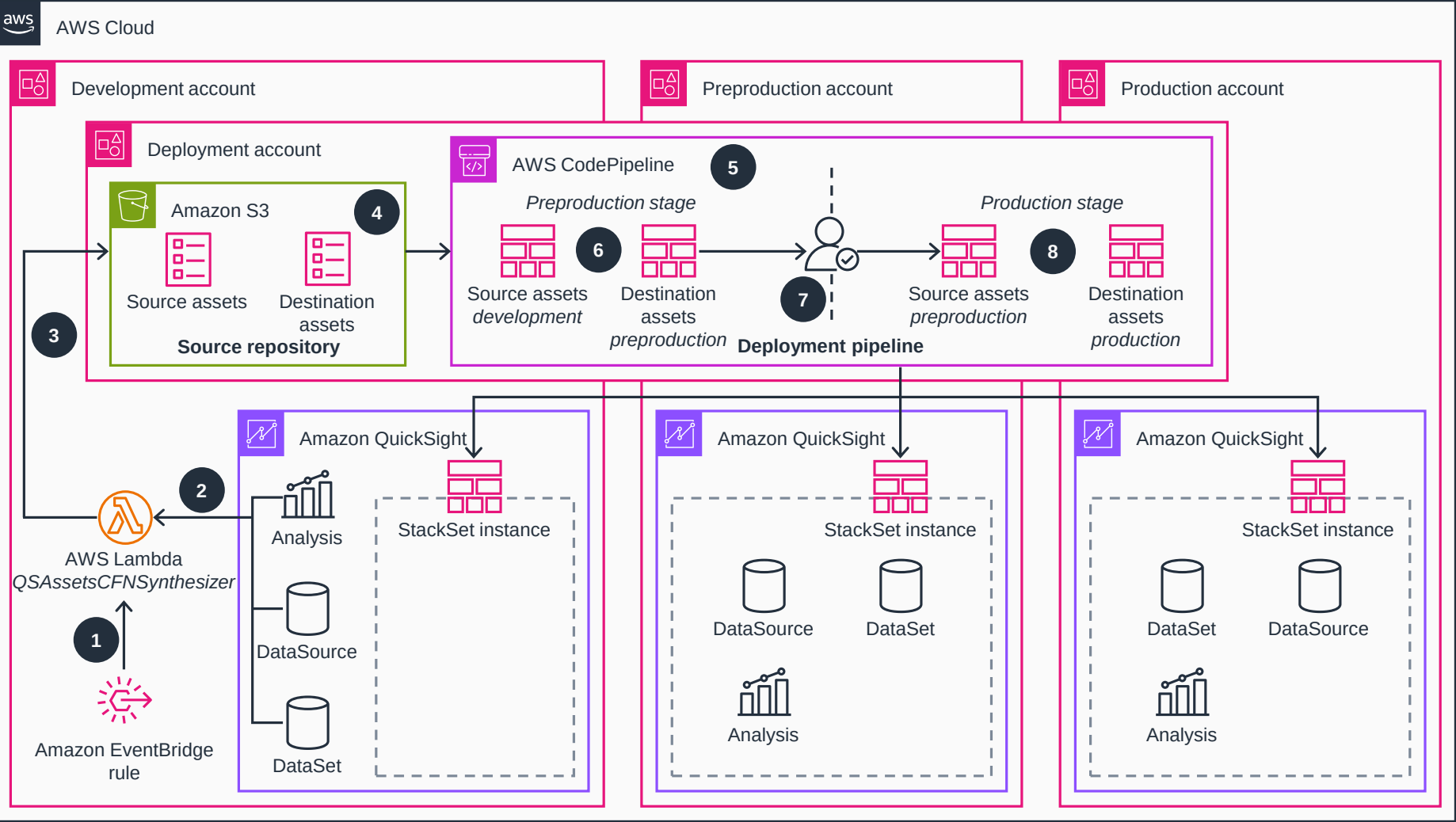
Guidance for Multi-Account Environments on Amazon QuickSight

This architecture diagram shows how to build a multi-account environment where assets from different development-cycle phases are hosted in separate accounts and promoted using a continuous integration and continuous delivery (CI/CD) pipeline. There are two deployment modes for this solution, the first one uses an Amazon QuickSight template, the second uses an asset bundle API. This slide displays the QuickSight template. For details on the asset bundle API deployment mode, refer to the next slide.



Guidance for Multi-Account Environments on Amazon QuickSight

This slide displays an asset bundle API deployment mode.



- 1 An **EventBridge** rule invokes the `QSAssetsCFNSynthesizer` **Lambda** function when a new dashboard version is deployed.
- 2 The **Lambda** function uses the **QuickSight** advanced deployment APIs (`AssetBundle`) to generate a **CloudFormation** template that models the development analysis and all its depending assets (such as `DataSource` and `DataSets`).
- 3 The **CloudFormation** templates are uploaded to **Amazon S3**. Two templates are generated: *source* assets, which will be empty in this case, and *destination* assets, which create an analysis from the **CloudFormation** template generated in the previous step.
- 4 **Amazon S3** is configured as the source stage for **CodePipeline** and acts as the source repository for the pipeline deployments.
- 5 **CodePipeline** is configured with two deployment stages for production and preproduction. The promotion to production is protected with a manual approval to prevent uncontrolled promotion of assets.
- 6 The first stage will deploy the source assets **CloudFormation** template in the development account (empty in this deployment mode) and then the destination assets **CloudFormation** template in preproduction, creating a **QuickSight** analysis and its depending assets (such as `DataSource` and `DataSets`).
- 7 Deployment to production will be kept on hold with a manual approval until the assets have been reviewed in preproduction.
- 8 Once the assets have been reviewed and approved, the second stage will deploy the source assets template in preproduction (empty in this deployment mode) and then the destination assets to create the **QuickSight** analysis and its depending assets in production.