aws marketplace

Implementation Guide:
Integrating the Druva Platform with AWS Control Tower

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Foreword

The Druva AWS Control Tower integration is purpose-built for enterprise users of AWS Cloud. Implementing this solution, you can automate the setup of your multi-account AWS environment with just a few clicks to simplify backup and disaster recovery management at an enterprise scale, utilizing native AWS services.

The purpose of this AWS Implementation Guide is to enable every AWS Marketplace customer to seamlessly activate, deploy and configure Druva in AWS Control Tower environment while taking full advantage of the resources pre-configured by AWS Control Tower as part of the initialization.

Solution overview and features

When managing a multi-account AWS environment, it can become cumbersome to protect these accounts by connecting them to Druva's data protection platform individually. The Druva integration for AWS Control Tower allows you to automatically protect any existing accounts, as well as any future AWS accounts as soon as they're created.

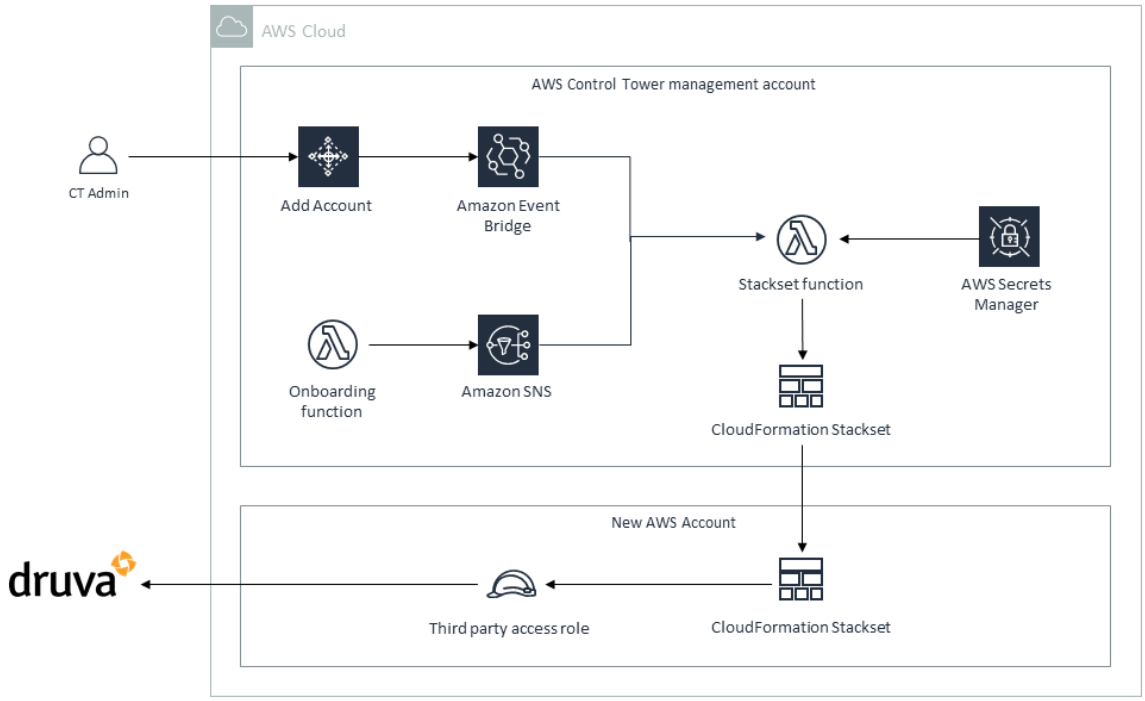
The protection offered by Druva requires a set of permissions within these AWS accounts to perform actions such as managing backups and launching servers during disaster recovery (DR) failover events. The AWS Identity and Access Management (IAM) resources that are set up for each AWS account can be found here.

With Druva, you can:

- Automatically protect your AWS resources across multiple accounts
- Recover instantly at an instance, volume, or file-level
- Prepare your infrastructure and resources for Disaster Recovery eventualities
- Reduce storage costs of backups across your entire environment
- Reduce operation costs by setting up resource scheduling for non-production resources

The solution is deployed using AWS CloudFormation templates and integrates with AWS Control Tower lifecycle events. When a new account is created or enrolled using the AWS Control Tower account factory, the lifecycle event triggers the AWS Lambda function to launch an AWS CloudFormation StackSet instance. The StackSet instance creates the required IAM resources in the new account.

Architecture Diagram



As a part of this solution, the following resources will be deployed in the management account:

- AWS CloudFormation StackSet: used in the AWS Control Tower management account as a template for all StackSet instances to be deployed in the new accounts
- AWS Control Tower lifecycle rule: used as a trigger to deploy the integration in new accounts upon creation
- AWS Lambda onboarding function: used in case any existing accounts are selected for integration
- AWS Lambda StackSet function: used to deploy a StackSet instance to the new account
- Amazon SNS topic: used as a trigger from the onboarding to StackSet function
- AWS Secrets Manager: used to store the values used to identify the Druva customer
- AWS IAM third-party access role: allows Druva to perform actions in your AWS environment on your behalf, such as taking backups and server management

Note – The IAM policies deployed as part of this solution are deployed across multi-accounts using CloudFormation stacksets. In the current version, any updates to this IAM policy would need an update to the stack set explicitly. Expect this update process simplified in the future release.

Pre-requisites

If you are new to Druva, please refer to the Druva website for a broad overview of its capabilities. If you are new to AWS, see Getting Started with AWS.

Fully deployed AWS Control Tower is required as a prerequisite of this solution. For information about setting up an AWS Control Tower landing zone, see Getting Started with AWS Control Tower in the AWS Control Tower User Guide.

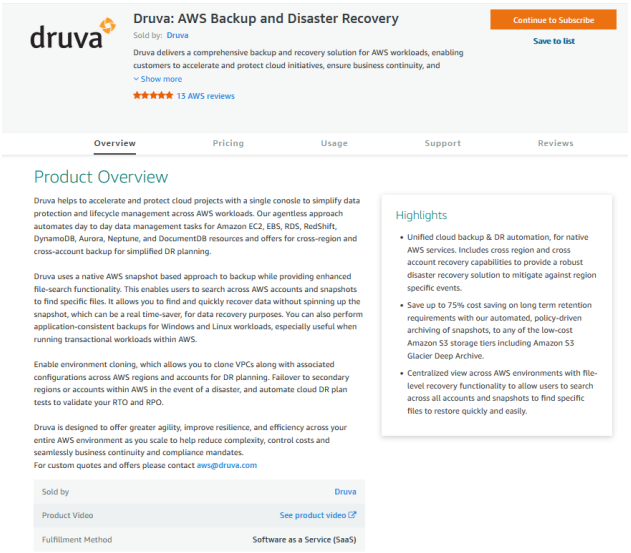
For additional information on AWS Marketplace, see here.

Deployment and Configuration Steps

Step 1.1: Sign up for a Druva account

This Integration requires an active Druva account for AWS workloads. If you are new to Druva and not yet ready to purchase a Druva subscription from AWS Marketplace, you can sign up for a free trial here.

1. Access the AWS Marketplace listing to subscribe to Druva:



2. Once you have configured your contract, choose the **Create contract** button. You will be prompted to confirm the contract. If you agree to the pricing, select the **Pay Now** button.
3. Choose **Setup your account** to proceed to Druva website and complete the registration.

Step 1.2: Activate your Druva account for AWS workloads

Once you've signed up, you'll receive an email with instructions on activating your account.

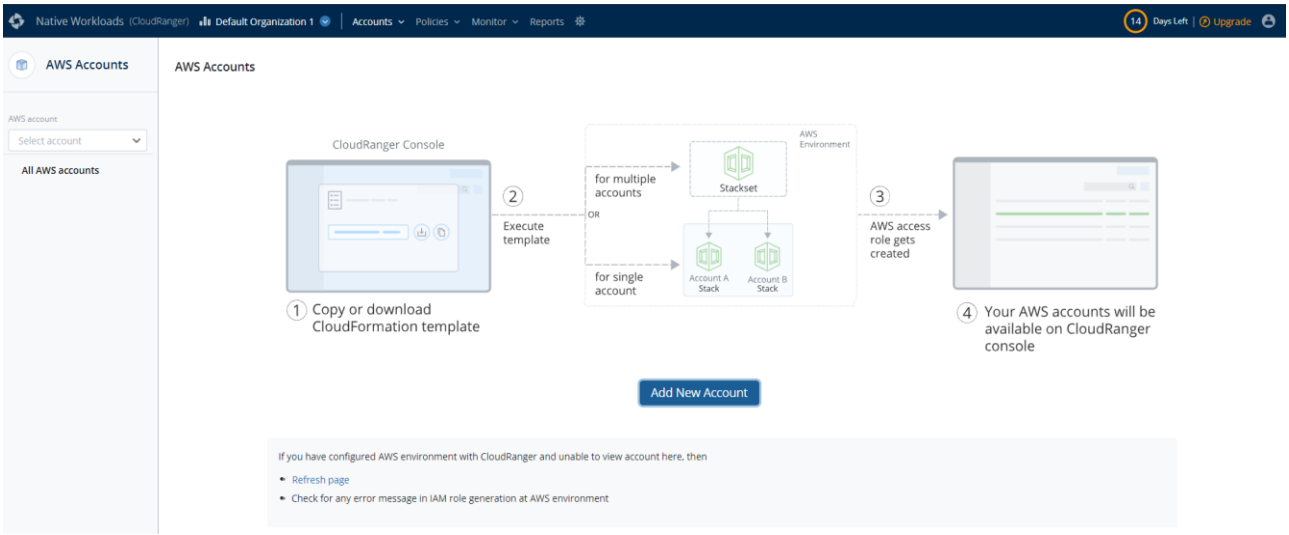
Configuration: Set up Additional configuration [SaaS vs AMI]

Step 2.1: Log in to Druva

Once your account has been activated, go here where you'll be prompted to enter your credentials.

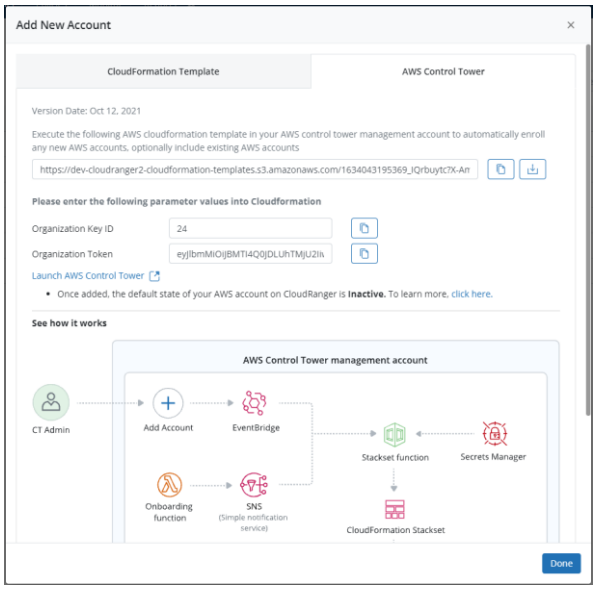
Step 2.2: Add a new AWS account

If this is the first time logging in to Druva, you will be prompted with an action button to "Add New Account" as seen below:



If this is **not** your first time logging in, you can find this screen by heading over to "Accounts" -> "All AWS Accounts" in the **top** navigation bar, where you will find the "Add a new account" button on the right-hand side.

This will bring up the following screen, where you'll select the **AWS Control Tower** tab:



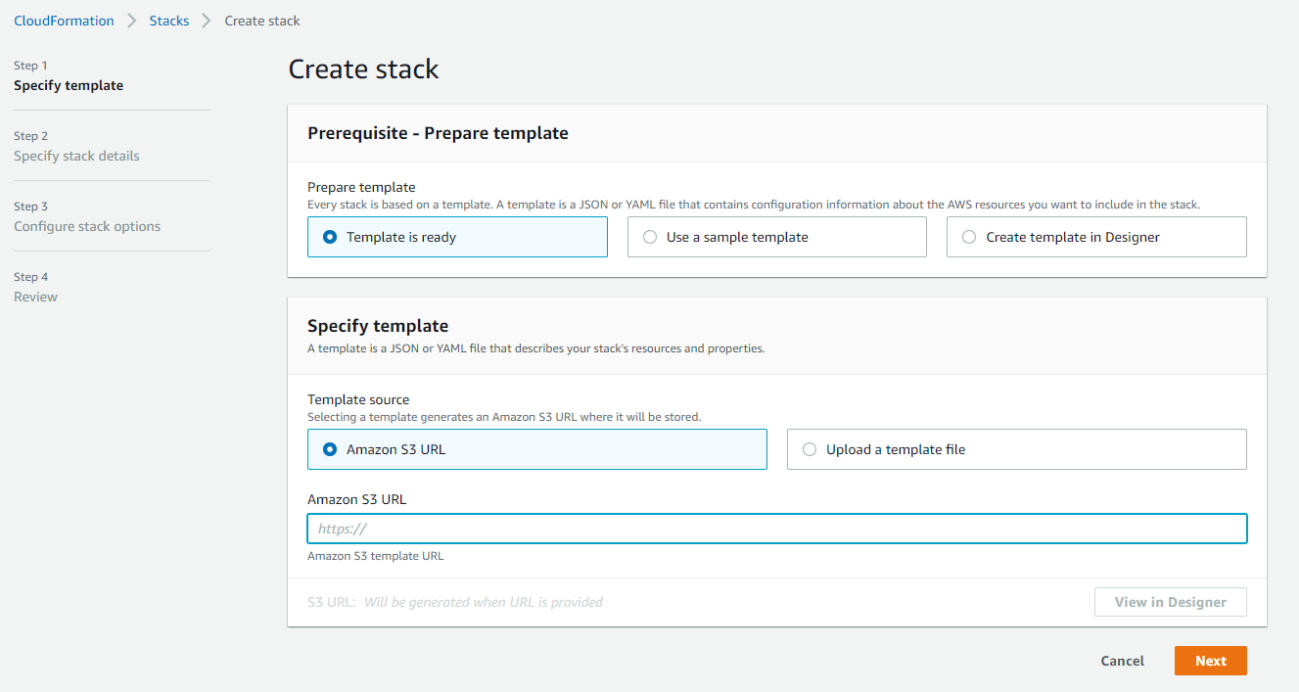
Step 2.3: Log into AWS Control Tower management account

Log in to the AWS Control Tower management account with **administrator** permissions. Ensure you are within the region where AWS Control Tower is deployed.

Step 2.4: Navigate to the AWS CloudFormation service

Navigate to the AWS CloudFormation by clicking the “Launch AWS Control Tower” link within the Druva console, or by finding the service from the search bar in the AWS Console or simply use this link.

Step 2.5 Create a new AWS CloudFormation stack with new resources so you land on the following screen:



1. Copy the provided URL from Druva into the Amazon S3 URL text field and click Next.
2. On the following screen, fill in the required information:
    - LaunchAccountList

      If there are any existing accounts enrolled within Control Tower that you would like to protect using Druva, enter them here in a comma-separated list (Optional)
    - OrganizationKeyId

      Copy this value from the Druva application (Required)
    - OrganizationToken

      Copy this value from the Druva application (Required)
    - StackRegion

      This is the region for the StackSet residing in the AWS Control Tower management account

- StackSetName

  This is the name for the StackSet residing in the AWS Control Tower management account
- StackSetUrl

  This value is provided by the template and should not be modified

3. Click next.
4. Add any tags if required.
5. Click next.
6. Review that all entered values are correct.
7. Check the checkbox stating, “I acknowledge that AWS CloudFormation might create IAM resources.”
8. Click “Create stack.”

   To follow the progress of the stack, you can view the events and details of the newly created stack.
9. When the stack creation completes, refresh the Druva application and your newly created accounts should show up in the AWS Accounts listing. Any account enrolled through AWS Control Tower will show up here as well.

This link will take you to our getting started documentation, which will help you get set up with the Druva AWS workloads product

Best Practices

- Do not share any details surrounding your organization to anyone outside of the organization.

Solution Estimated Pricing

You are responsible for the cost of the AWS services and any third-party licenses used while running this deployment. There is no additional cost for using this Control Tower deployment.

This Quick Start requires a Druva license. You can create an account using the Druva AWS Workloads pricing plan. Ensure that you choose a Freemium, Enterprise, or Elite plan for access to administrator features and support.

FAQs

- **Do I need to have a Druva Account to use the solution?**
  - Yes, you need to have a Druva account set up to use this AWS Control Tower integration. Please use this link and follow the steps above to create a free trial.

- **What AWS Services can I back up with Druva?**
    - Amazon EC2
    - Amazon Aurora
    - Amazon RDS
    - Amazon DynamoDB
    - Amazon EBS
    - Amazon Outposts
    - Amazon DocumentDB
    - Amazon Neptune
    - Amazon Redshift
    - Amazon VPCs
- **Does Druva help cross-region, cross-account backups for Cyber Resiliency?**
    - Yes, Druva can easily manage cross-region, cross-account backups across hundreds of accounts seamlessly.
- **Does Druva support AWS Disaster Recovery?**
    - Yes, Druva supports
        - One-click disaster recovery
        - Create DR plans for Amazon EC2 and Amazon RDS
        - Cross-region and cross-account DR plans
        - Clone environments with region-based mappings
        - Schedule automated DR plan tests
        - Validate RTO and RPO requirements

Additional resources

Below are some additional links that may be of benefit to you as you look to on-board the Druva platform.

About Druva for AWS workloads

Release Notes

Documentation Hub

Partner contact information

Sales: 1-888-248-4976 | sales@druva.com

Support: 1-844-30-DRUVA (37882) | https://druva.com/support