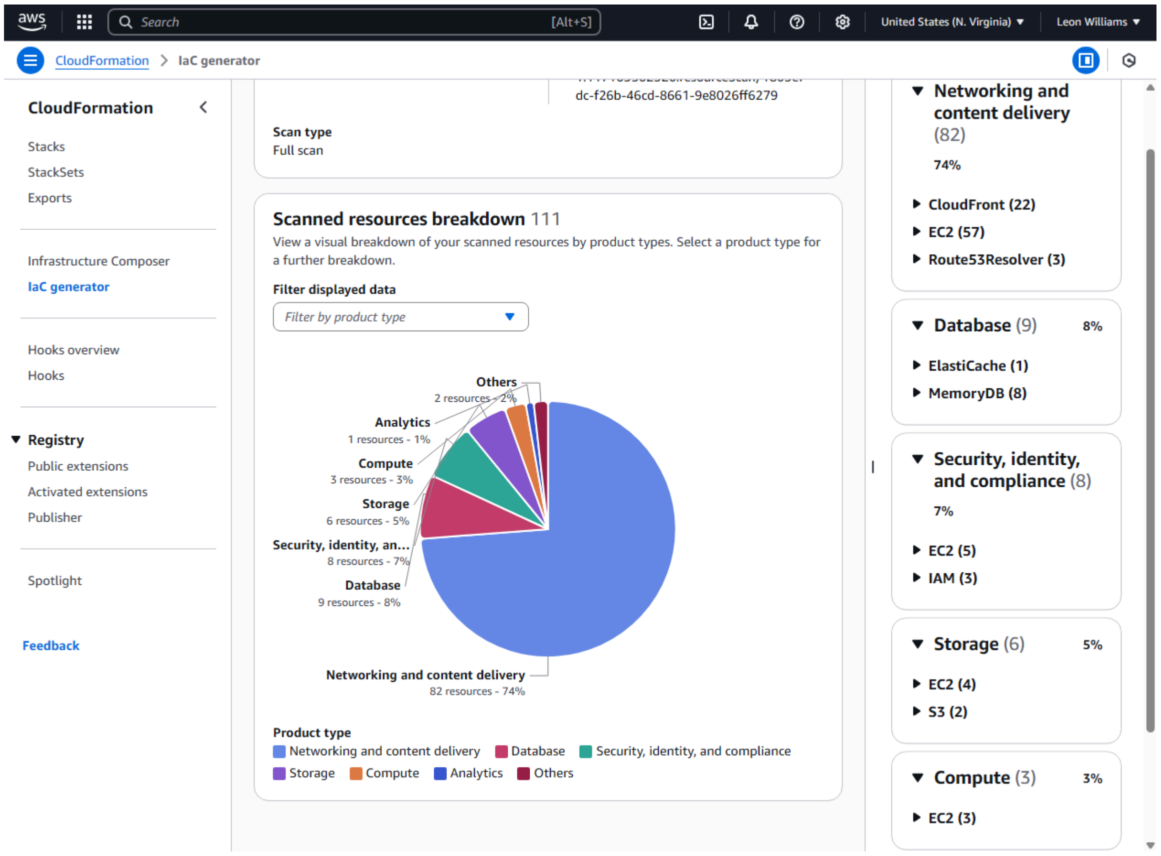
Infrastructure as Code (IaC) with AWS CloudFormation

Step 1

I started by using the Infrastructure as Code (IaC) Generator to create a CloudFormation template. This tool helped me define the architecture by translating existing infrastructure into a template format, allowing me to manage the setup as code. Next, I performed a Scan to analyze the current AWS environment. The scan provided a breakdown of the resources that were actively running in the environment. Based on this scan, I was able to identify which resources to include in the CloudFormation template.



dc-f26b-46cd-8661-9e8026ff6279

Scan type
Full scan

Scanned resources breakdown 111

View a visual breakdown of your scanned resources by product types. Select a product type for a further breakdown.

Filter displayed data

Filter by product type

Product type
- Networking and content delivery
- Database
- Security, identity, and compliance
- Storage
- Compute
- Analytics
- Others

Networking and content delivery (82) 74%
- CloudFront (22)
- EC2 (57)
- Route53Resolver (3)

Database (9) 8%
- ElastiCache (1)
- MemoryDB (8)

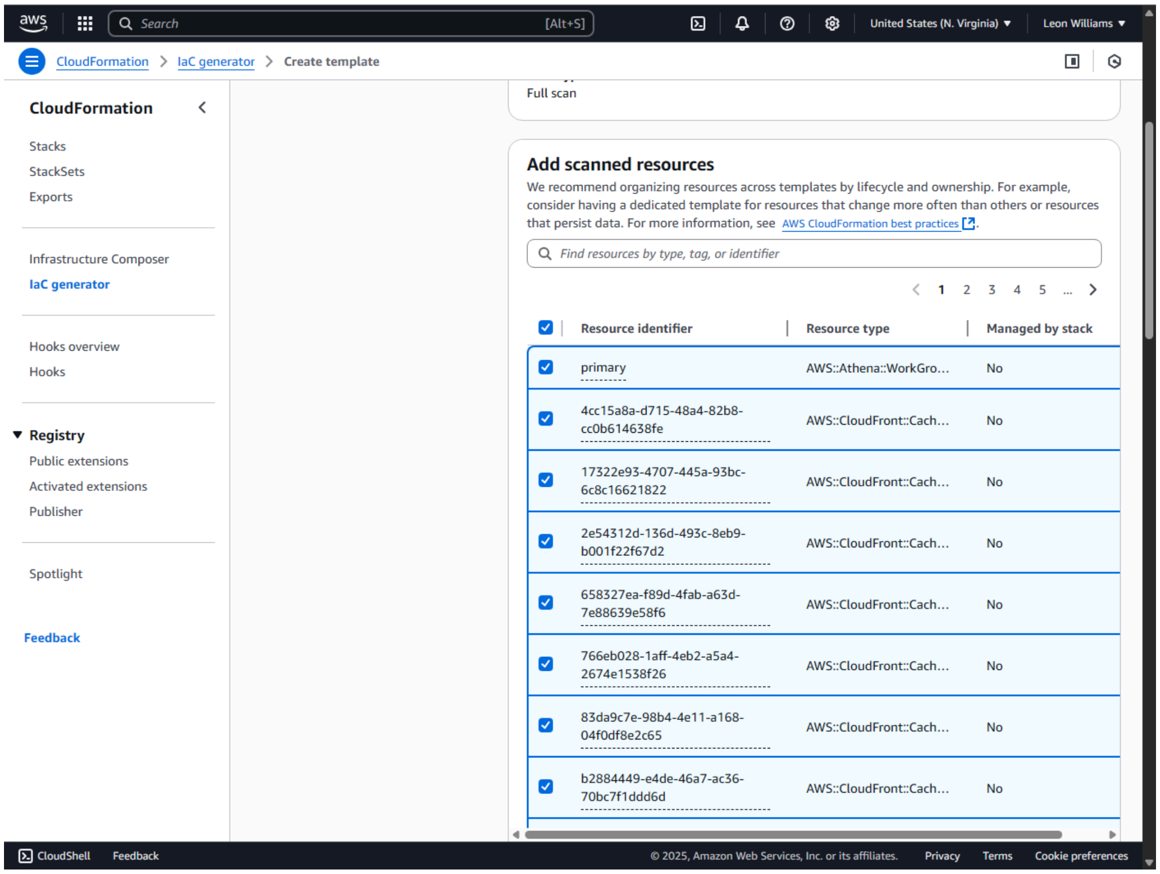
Security, identity, and compliance (8) 7%
- EC2 (5)
- IAM (3)

Storage (6) 5%
- EC2 (4)
- S3 (2)

Compute (3) 3%
- EC2 (3)

Step 2

After identifying the relevant components, I created a CloudFormation template that included the scanned and selected resources. I ensured all necessary configurations and dependencies were properly defined so the infrastructure could be reproduced accurately.



Full scan

Add scanned resources

We recommend organizing resources across templates by lifecycle and ownership. For example, consider having a dedicated template for resources that change more often than others or resources that persist data. For more information, see AWS CloudFormation best practices.

Find resources by type, tag, or identifier

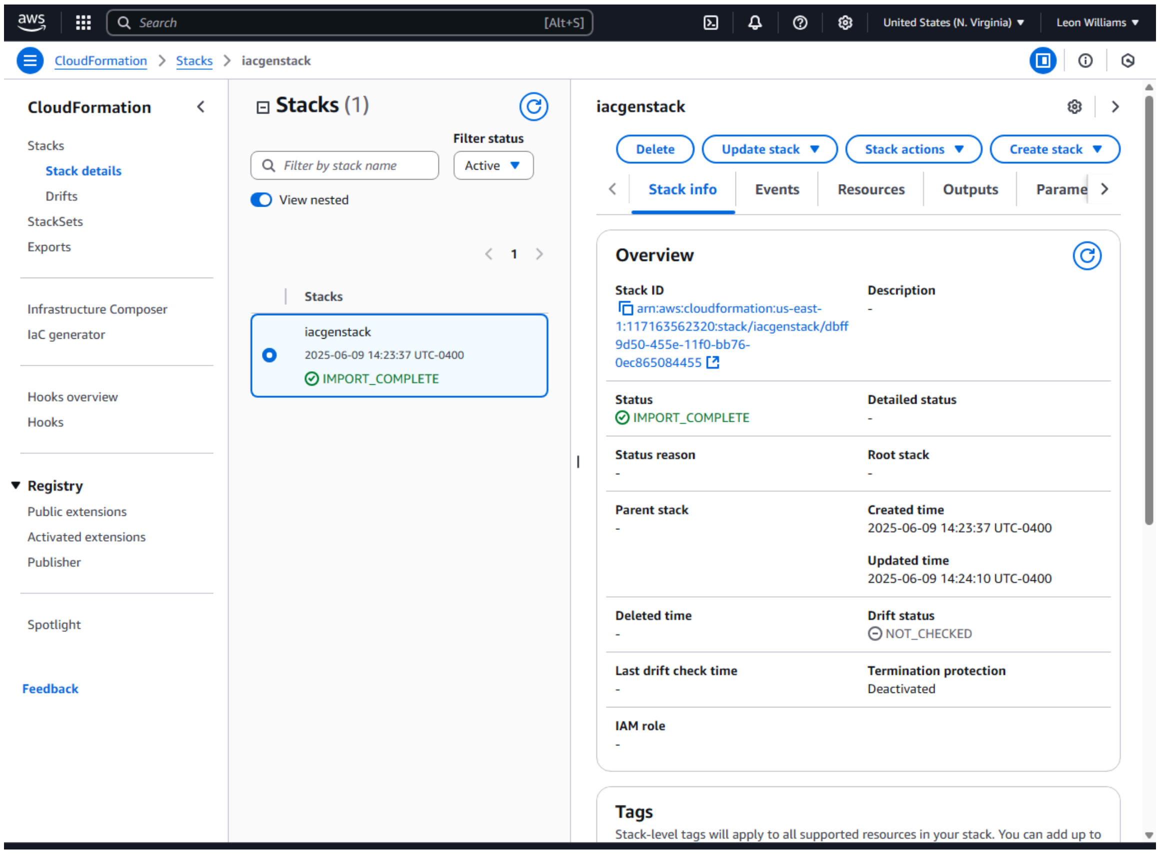
< 1 2 3 4 5 ... >

✓	Resource identifier	Resource type	Managed by stack
✓	primary	AWS::Athena::WorkGro...	No
✓	4cc15a8a-d715-48a4-82b8-cc0b614638fe	AWS::CloudFront::Cach...	No
✓	17322e93-4707-445a-93bc-6c8c16621822	AWS::CloudFront::Cach...	No
✓	2e54312d-136d-493c-8eb9-b001f22f67d2	AWS::CloudFront::Cach...	No
✓	658327ea-f89d-4fab-a63d-7e88639e58f6	AWS::CloudFront::Cach...	No
✓	766eb028-1aff-4eb2-a5a4-2674e1538f26	AWS::CloudFront::Cach...	No
✓	83da9c7e-98b4-4e11-a168-04f0df8e2c65	AWS::CloudFront::Cach...	No
✓	b2884449-e4de-46a7-ac36-70bc7f1ddd6d	AWS::CloudFront::Cach...	No

Step 3 to Step 5

After identifying the relevant components, I created a CloudFormation template that included the scanned and selected resources. I ensured all necessary configurations and dependencies were properly defined so the infrastructure could be reproduced accurately.

Once the template was complete, I imported it into AWS CloudFormation as a stack. This allowed me to manage the infrastructure through the CloudFormation service, treating it as a single unit.



Stacks (1)

Filter status: Active

View nested

Stacks
iacgenstack 2025-06-09 14:23:37 UTC-0400 IMPORT_COMPLETE

iacgenstack

Overview

Stack ID arn:aws:cloudformation:us-east-1:117163562320:stack/iacgenstack/dbff9d50-455e-11f0-bb76-0ec865084455	**Description** -
Status IMPORT_COMPLETE	**Detailed status** -
Status reason -	**Root stack** -
Parent stack -	**Created time** 2025-06-09 14:23:37 UTC-0400 **Updated time** 2025-06-09 14:24:10 UTC-0400
Deleted time -	**Drift status** NOT_CHECKED
Last drift check time -	**Termination protection** Deactivated
IAM role -	

Tags

Stack-level tags will apply to all supported resources in your stack. You can add up to

Finally, I ran a drift detection check to compare the actual resources in the environment against those defined in the stack template. This step confirmed whether any changes had occurred outside of CloudFormation that would result in a drift from the declared state.

Parent stack -	**Created time** 2025-06-09 14:23:37 UTC-0400 **Updated time** 2025-06-09 14:24:10 UTC-0400
Deleted time -	**Drift status** ✓ IN_SYNC
Last drift check time 2025-06-09 14:25:29 UTC-0400	**Termination protection** Deactivated