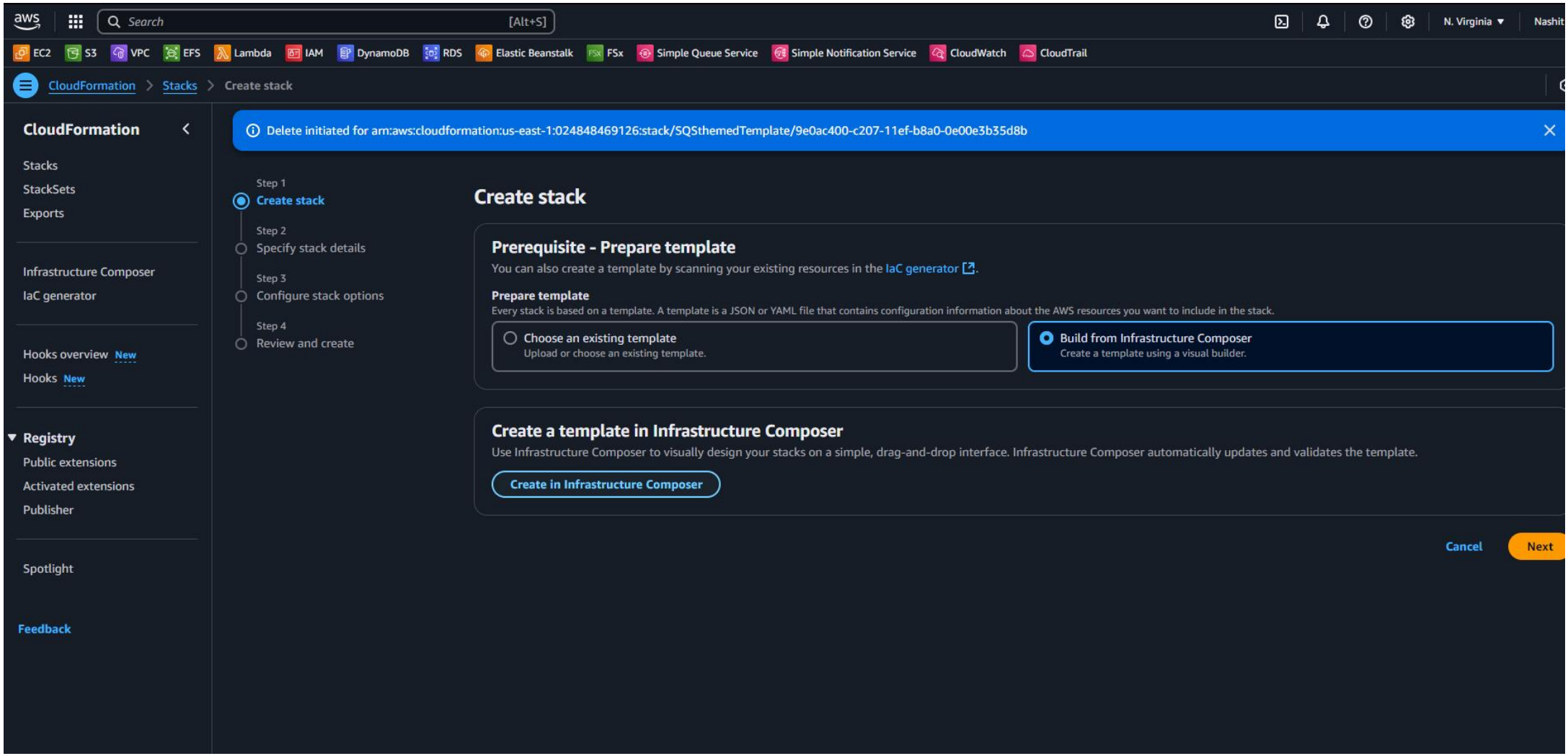
aws
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Hooks New
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Delete initiated for arn:aws:cloudformation:us-east-1:024848469126:stack/SQSthemedTemplate/9e0ac400-c207-11ef-b8a0-0e00e3b35d8b
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Configure stack options
Step 4
Review and create
Create stack
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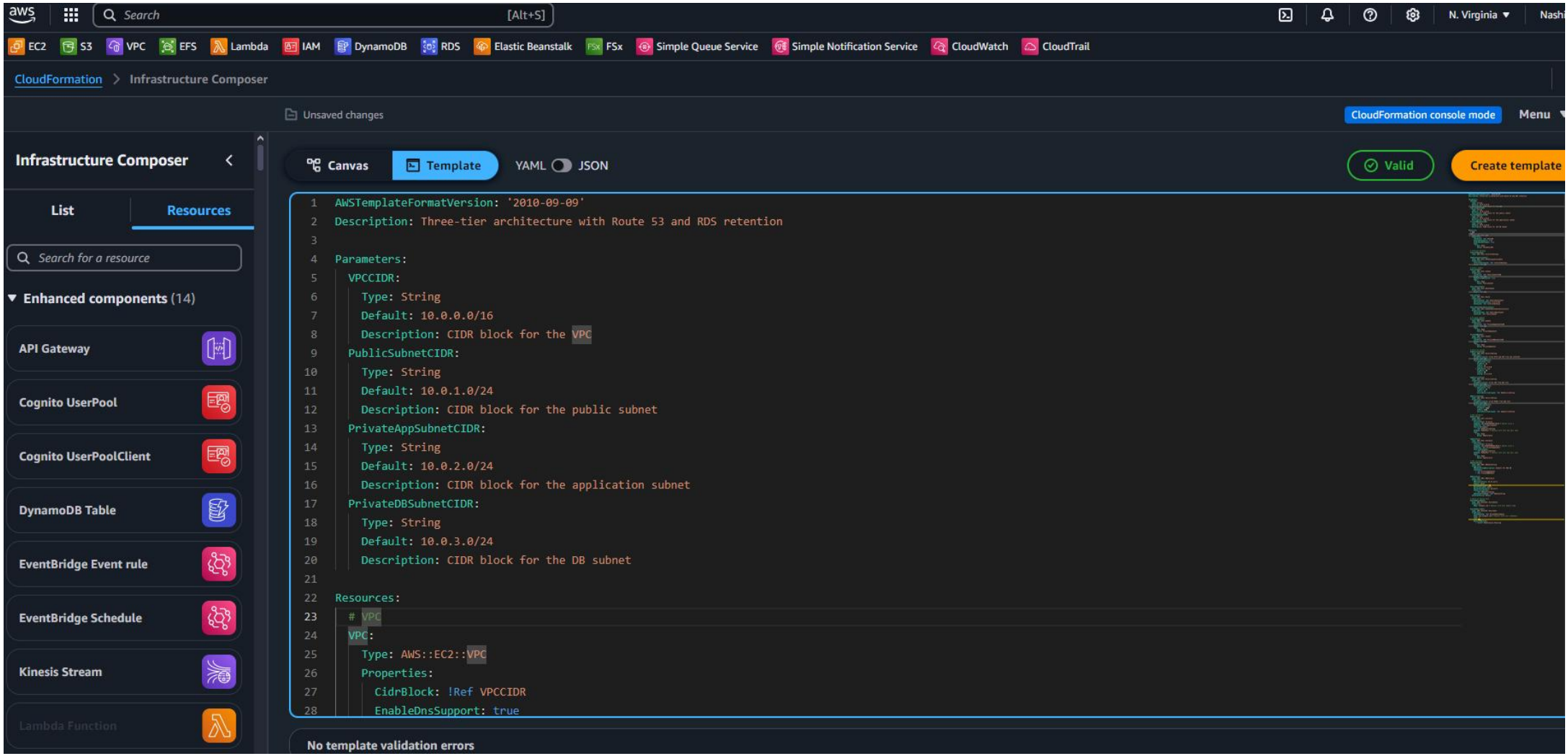
You can also create a template by scanning your existing resources in the IaC generator.
Prepare template
Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.
Choose an existing template
Upload or choose an existing template.
Build from Infrastructure Composer
Create a template using a visual builder.
Create a template in Infrastructure Composer
Use Infrastructure Composer to visually design your stacks on a simple, drag-and-drop interface. Infrastructure Composer automatically updates and validates the template.
Create in Infrastructure Composer
Cancel
Next


Search [Alt+S]
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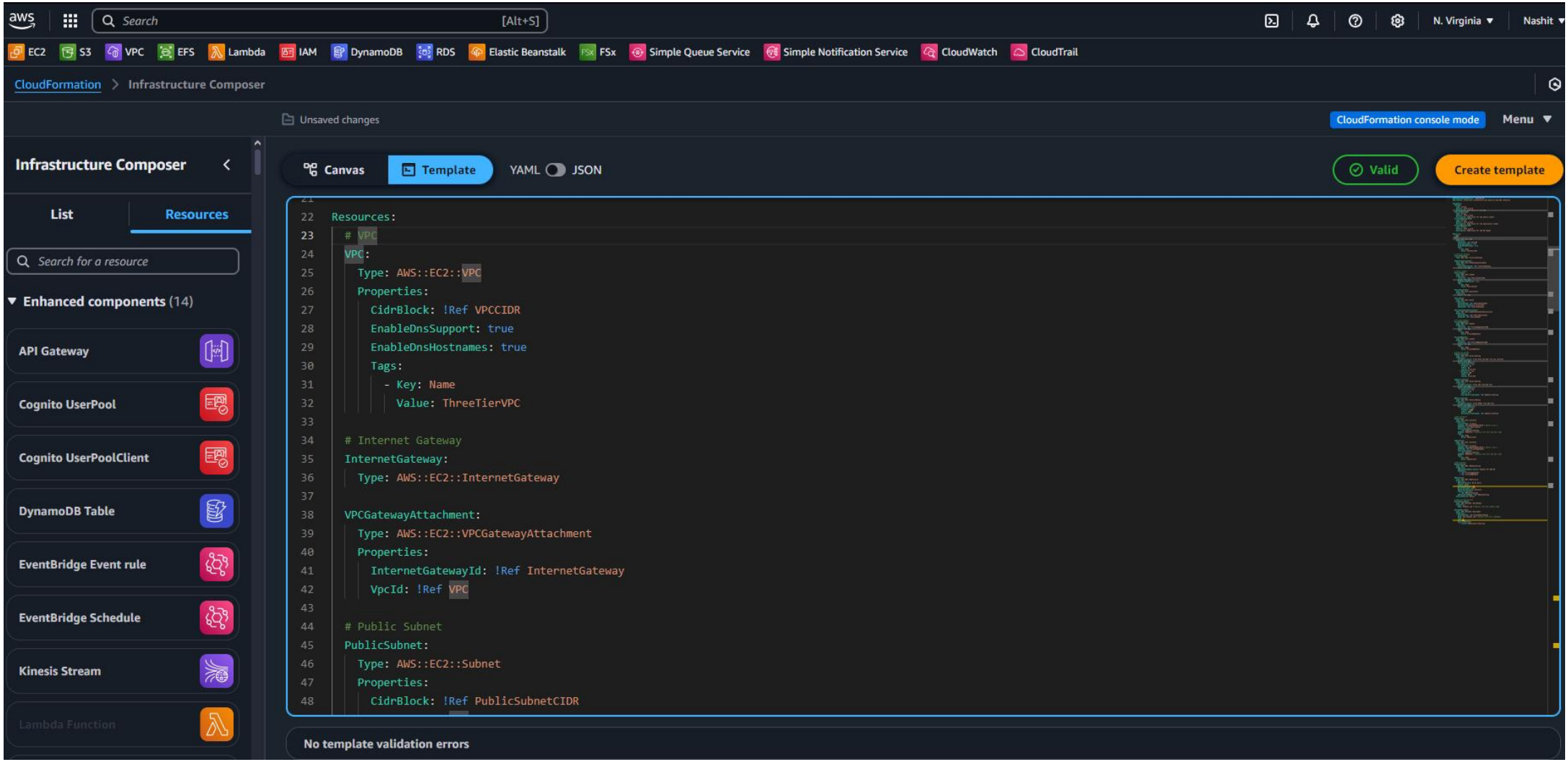
Create template
AWSTemplateFormatVersion: '2010-09-09'
Description: Three-tier architecture with Route 53 and RDS retention
Parameters:
VPCCIDR:
Type: String
Default: 10.0.0.0/16
Description: CIDR block for the VPC
PublicSubnetCIDR:
Type: String
Default: 10.0.1.0/24
Description: CIDR block for the public subnet
PrivateAppSubnetCIDR:
Type: String
Default: 10.0.2.0/24
Description: CIDR block for the application subnet
PrivateDBSubnetCIDR:
Type: String
Default: 10.0.3.0/24
Description: CIDR block for the DB subnet
Resources:
VPC
VPC:
Type: AWS::EC2::VPC
Properties:
CidrBlock: !Ref VPCCIDR
EnableDnsSupport: true
No template validation errors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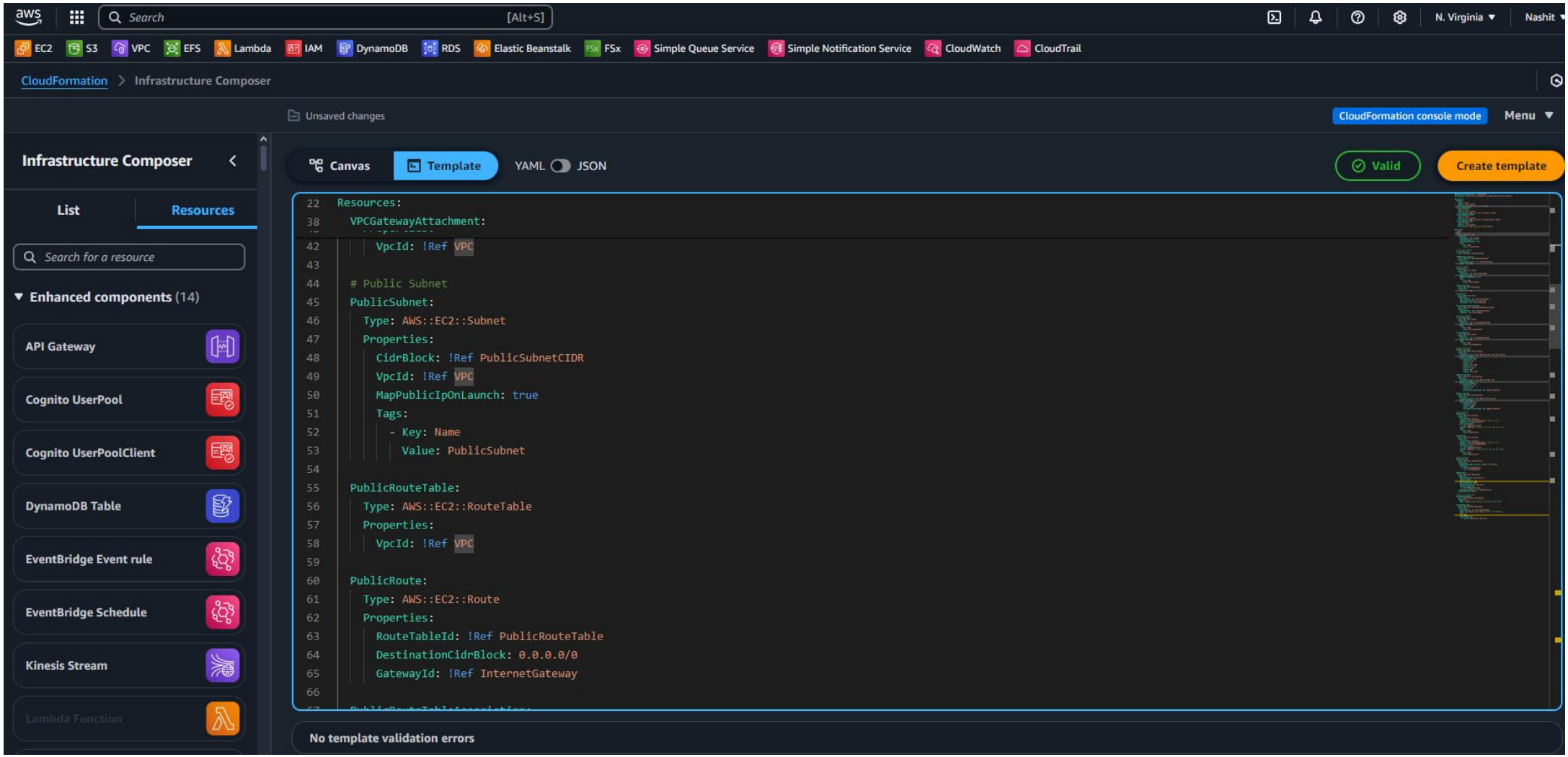
Resources:
VPC
VPC:
Type: AWS::EC2::VPC
Properties:
CidrBlock: !Ref VPCCIDR
EnableDnsSupport: true
EnableDnsHostnames: true
Tags:
- Key: Name
Value: ThreeTierVPC
Internet Gateway
InternetGateway:
Type: AWS::EC2::InternetGateway
VPCGatewayAttachment:
Type: AWS::EC2::VPCGatewayAttachment
Properties:
InternetGatewayId: !Ref InternetGateway
VpcId: !Ref VPC
Public Subnet
PublicSubnet:
Type: AWS::EC2::Subnet
Properties:
CidrBlock: !Ref PublicSubnetCIDR
No template validation errors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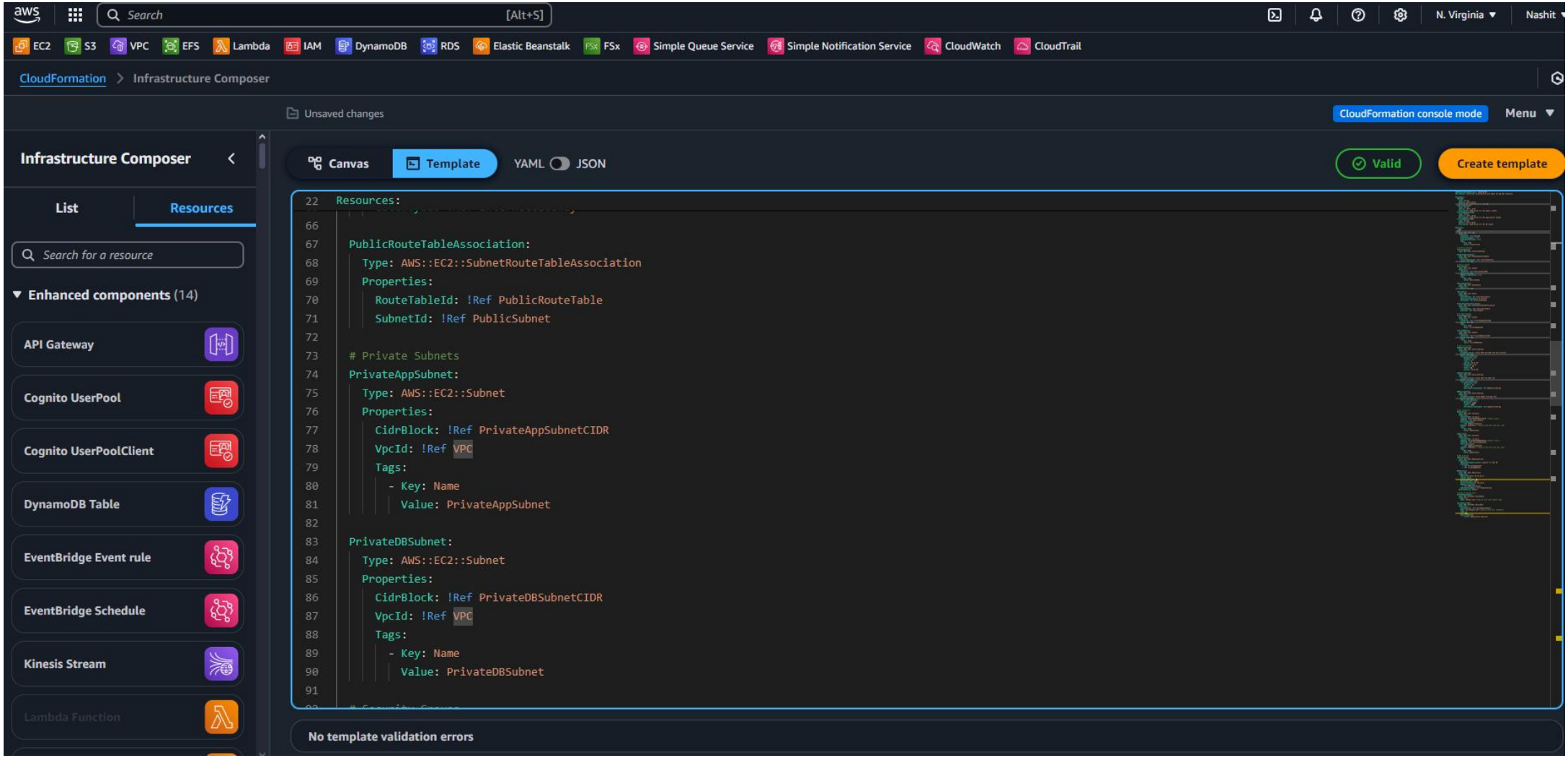
22 Resources:
38 VPCGatewayAttachment:
42 VpcId: !Ref VPC
43
44 # Public Subnet
45 PublicSubnet:
46 Type: AWS::EC2::Subnet
47 Properties:
48 CidrBlock: !Ref PublicSubnetCIDR
49 VpcId: !Ref VPC
50 MapPublicIpOnLaunch: true
51 Tags:
52 - Key: Name
53 Value: PublicSubnet
54
55 PublicRouteTable:
56 Type: AWS::EC2::RouteTable
57 Properties:
58 VpcId: !Ref VPC
59
60 PublicRoute:
61 Type: AWS::EC2::Route
62 Properties:
63 RouteTableId: !Ref PublicRouteTable
64 DestinationCidrBlock: 0.0.0.0/0
65 GatewayId: !Ref InternetGateway
66
No template validation errors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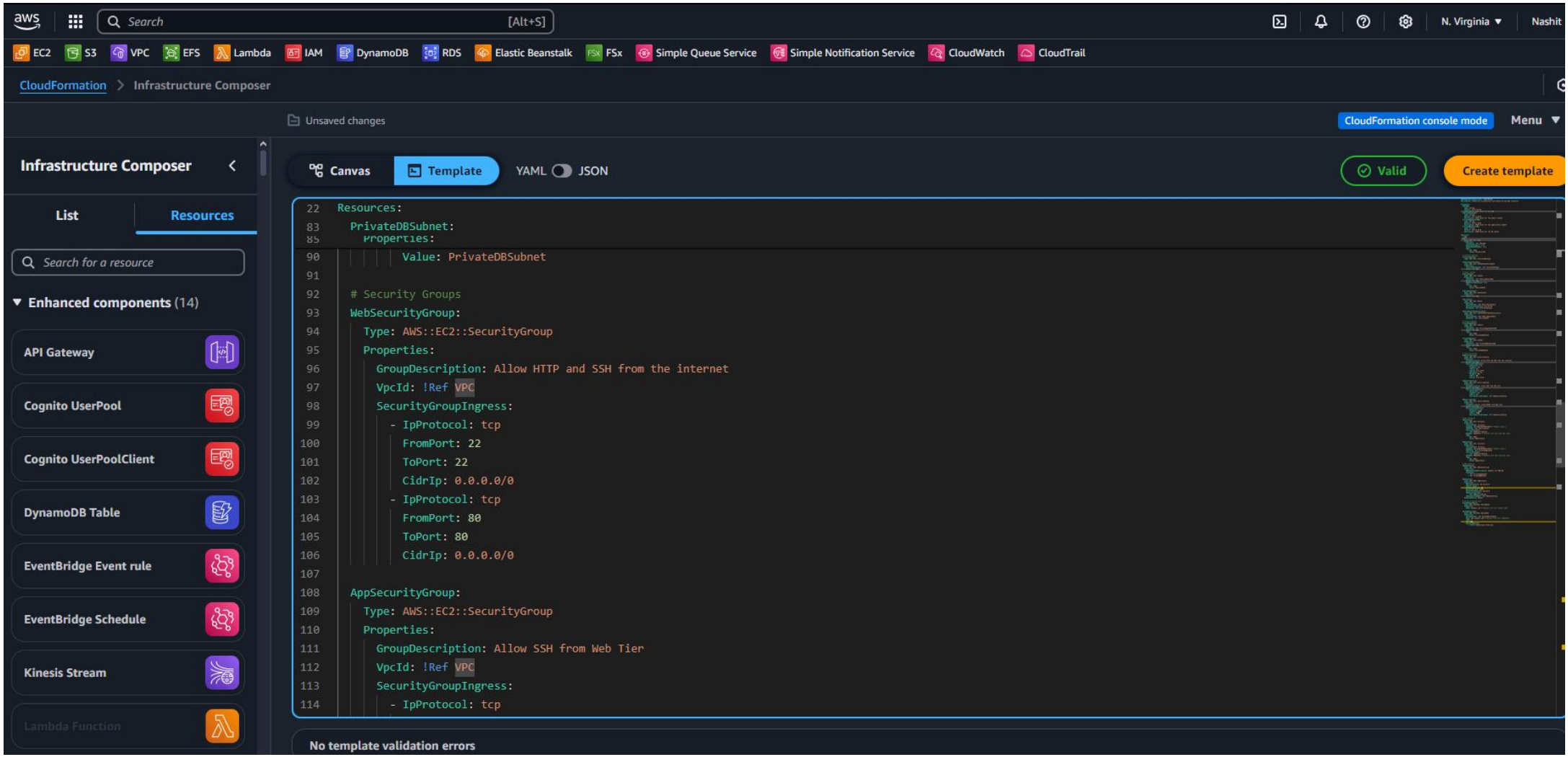
22 Resources:
66
67 PublicRouteTableAssociation:
68 Type: AWS::EC2::SubnetRouteTableAssociation
69 Properties:
70 RouteTableId: !Ref PublicRouteTable
71 SubnetId: !Ref PublicSubnet
72
73 # Private Subnets
74 PrivateAppSubnet:
75 Type: AWS::EC2::Subnet
76 Properties:
77 CidrBlock: !Ref PrivateAppSubnetCIDR
78 VpcId: !Ref VPC
79 Tags:
80 - Key: Name
81 Value: PrivateAppSubnet
82
83 PrivateDBSubnet:
84 Type: AWS::EC2::Subnet
85 Properties:
86 CidrBlock: !Ref PrivateDBSubnetCIDR
87 VpcId: !Ref VPC
88 Tags:
89 - Key: Name
90 Value: PrivateDBSubnet
91
No template validation errors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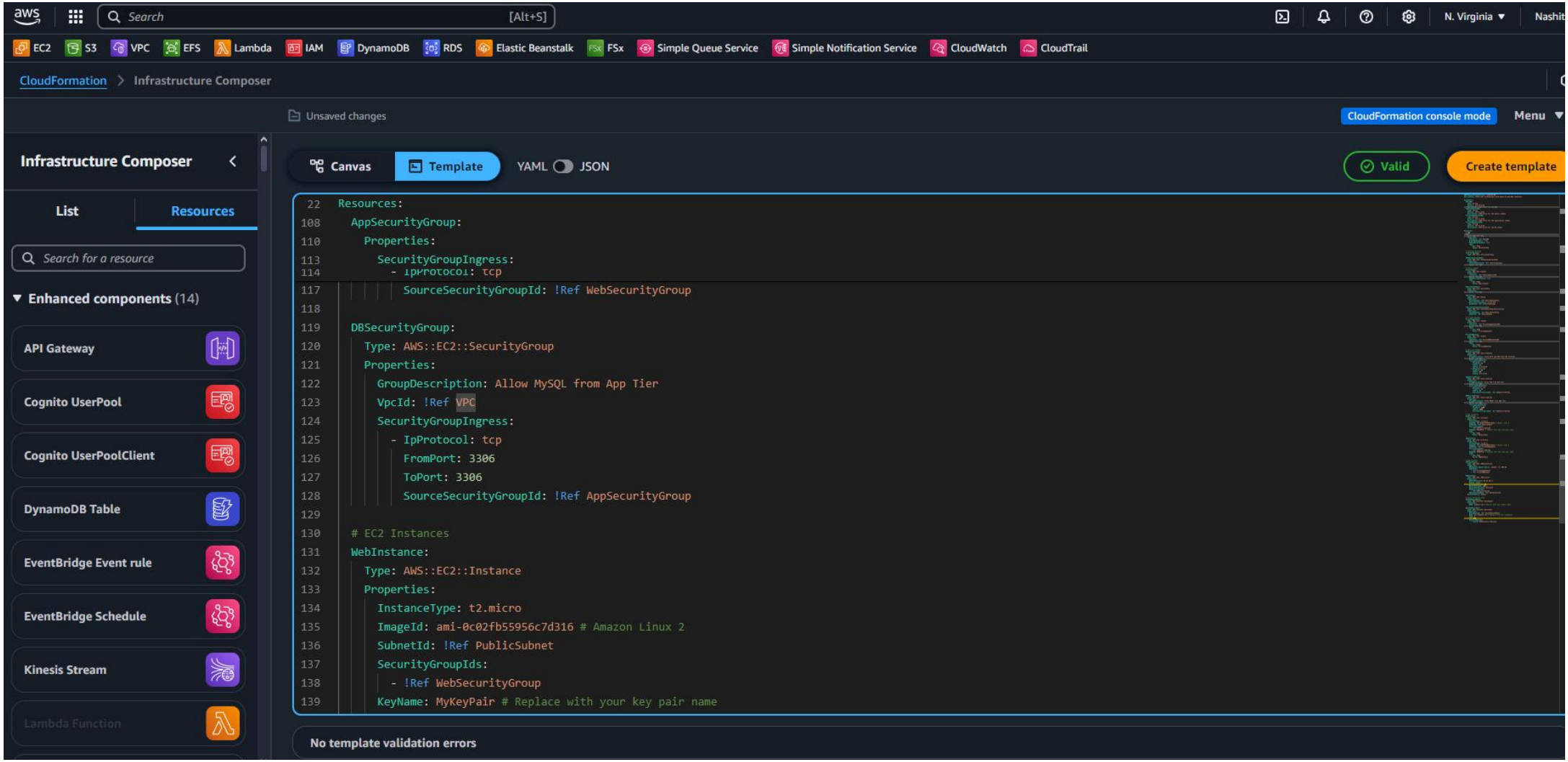
22 Resources:
83 PrivateDBSubnet:
85 Properties:
90 Value: PrivateDBSubnet
91
92 # Security Groups
93 WebSecurityGroup:
94 Type: AWS::EC2::SecurityGroup
95 Properties:
96 GroupDescription: Allow HTTP and SSH from the internet
97 VpcId: !Ref VPC
98 SecurityGroupIngress:
99 - IpProtocol: tcp
100 FromPort: 22
101 ToPort: 22
102 CidrIp: 0.0.0.0/0
103 - IpProtocol: tcp
104 FromPort: 80
105 ToPort: 80
106 CidrIp: 0.0.0.0/0
107
108 AppSecurityGroup:
109 Type: AWS::EC2::SecurityGroup
110 Properties:
111 GroupDescription: Allow SSH from Web Tier
112 VpcId: !Ref VPC
113 SecurityGroupIngress:
114 - IpProtocol: tcp
No template validation errors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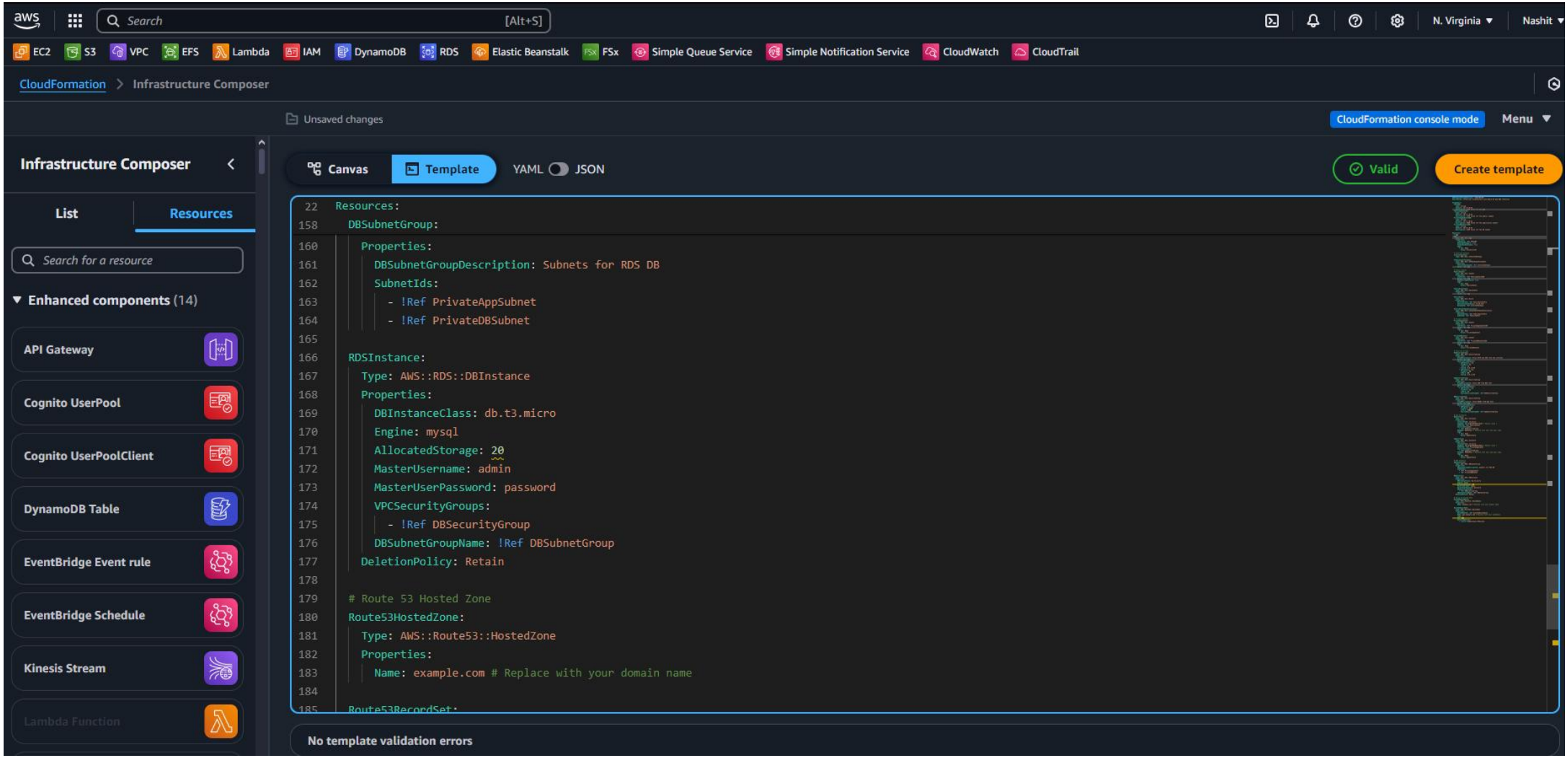
22 Resources:
108 AppSecurityGroup:
110 Properties:
113 SecurityGroupIngress:
114 - IpProtocol: tcp
117 SourceSecurityGroupId: !Ref WebSecurityGroup
118
119 DBSecurityGroup:
120 Type: AWS::EC2::SecurityGroup
121 Properties:
122 GroupDescription: Allow MySQL from App Tier
123 VpcId: !Ref VPC
124 SecurityGroupIngress:
125 - IpProtocol: tcp
126 FromPort: 3306
127 ToPort: 3306
128 SourceSecurityGroupId: !Ref AppSecurityGroup
129
130 # EC2 Instances
131 WebInstance:
132 Type: AWS::EC2::Instance
133 Properties:
134 InstanceType: t2.micro
135 ImageId: ami-0c02fb55956c7d316 # Amazon Linux 2
136 SubnetId: !Ref PublicSubnet
137 SecurityGroupIds:
138 - !Ref WebSecurityGroup
139 KeyName: MyKeyPair # Replace with your key pair name
No template validation errors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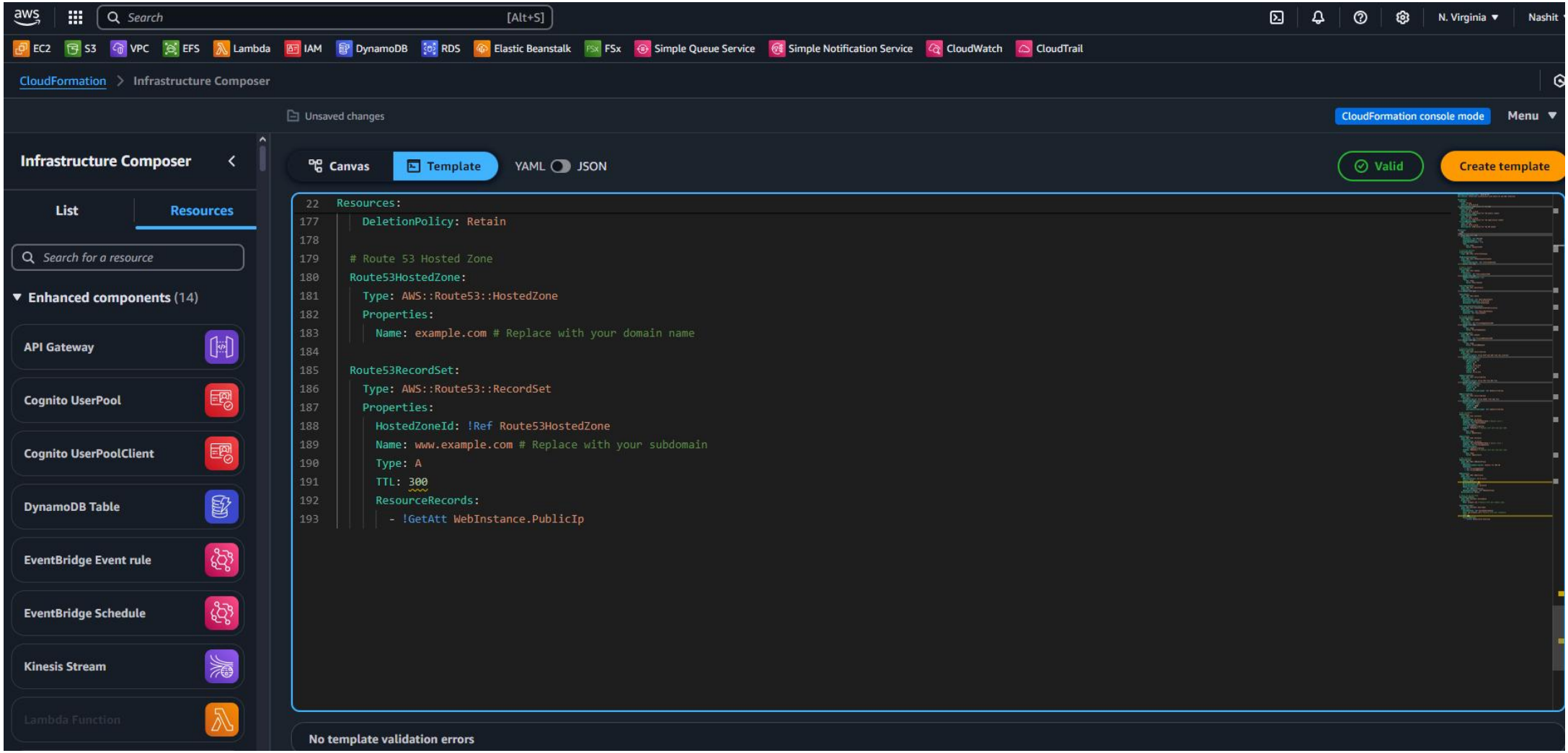
22 Resources:
158 DBSubnetGroup:
160 Properties:
161 DBSubnetGroupDescription: Subnets for RDS DB
162 SubnetIds:
163 - !Ref PrivateAppSubnet
164 - !Ref PrivateDBSubnet
165
166 RDSInstance:
167 Type: AWS::RDS::DBInstance
168 Properties:
169 DBInstanceClass: db.t3.micro
170 Engine: mysql
171 AllocatedStorage: 20
172 MasterUsername: admin
173 MasterUserPassword: password
174 VPCSecurityGroups:
175 - !Ref DBSecurityGroup
176 DBSubnetGroupName: !Ref DBSubnetGroup
177 DeletionPolicy: Retain
178
179 # Route 53 Hosted Zone
180 Route53HostedZone:
181 Type: AWS::Route53::HostedZone
182 Properties:
183 Name: example.com # Replace with your domain name
184
185 Route53RecordSet:
No template validation errors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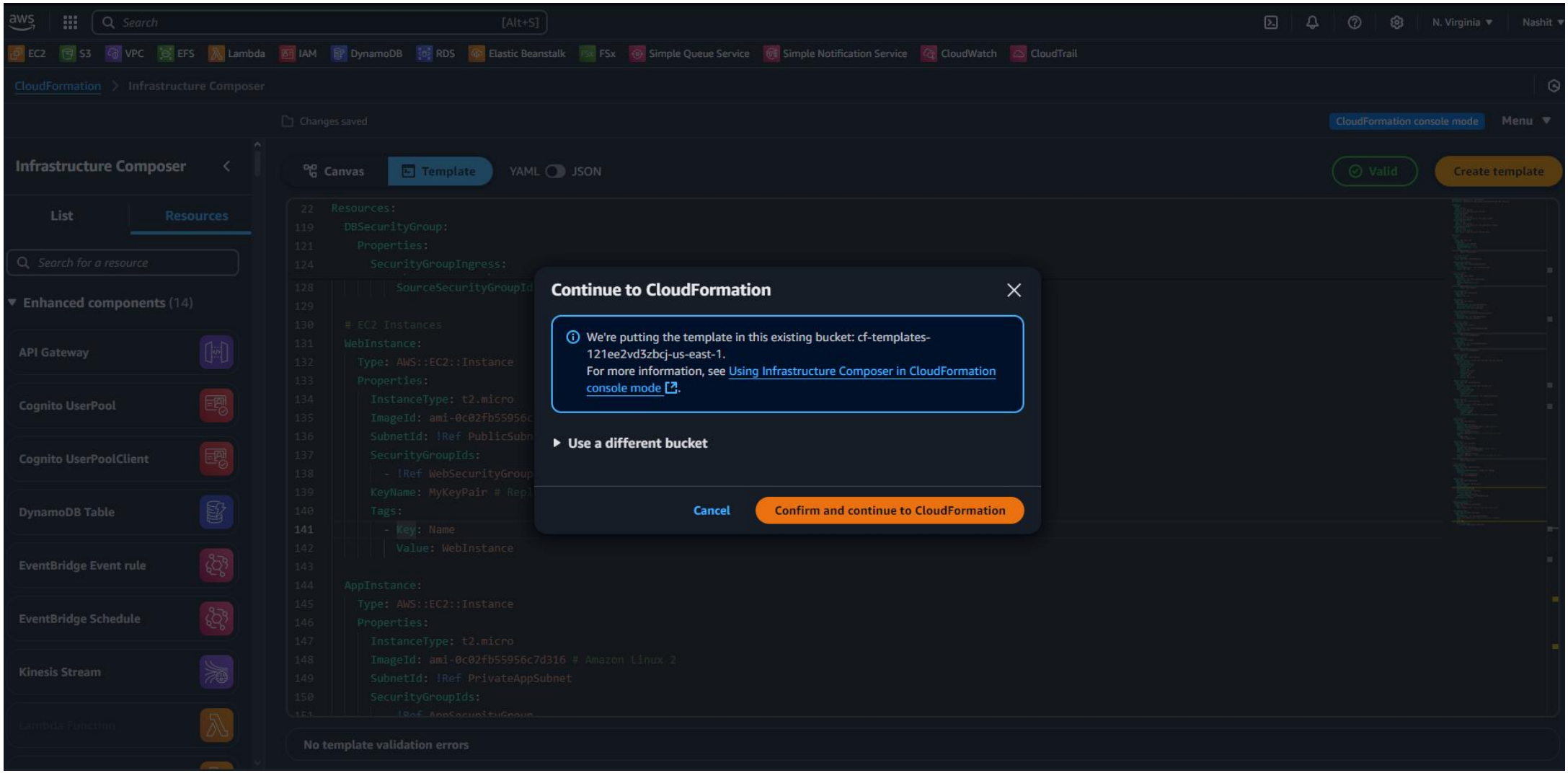
22 Resources:
177 DeletionPolicy: Retain
178
179 # Route 53 Hosted Zone
180 Route53HostedZone:
181 Type: AWS::Route53::HostedZone
182 Properties:
183 Name: example.com # Replace with your domain name
184
185 Route53RecordSet:
186 Type: AWS::Route53::RecordSet
187 Properties:
188 HostedZoneId: !Ref Route53HostedZone
189 Name: www.example.com # Replace with your subdomain
190 Type: A
191 TTL: 300
192 ResourceRecords:
193 - !GetAtt WebInstance.PublicIp
No template validation errors


Search
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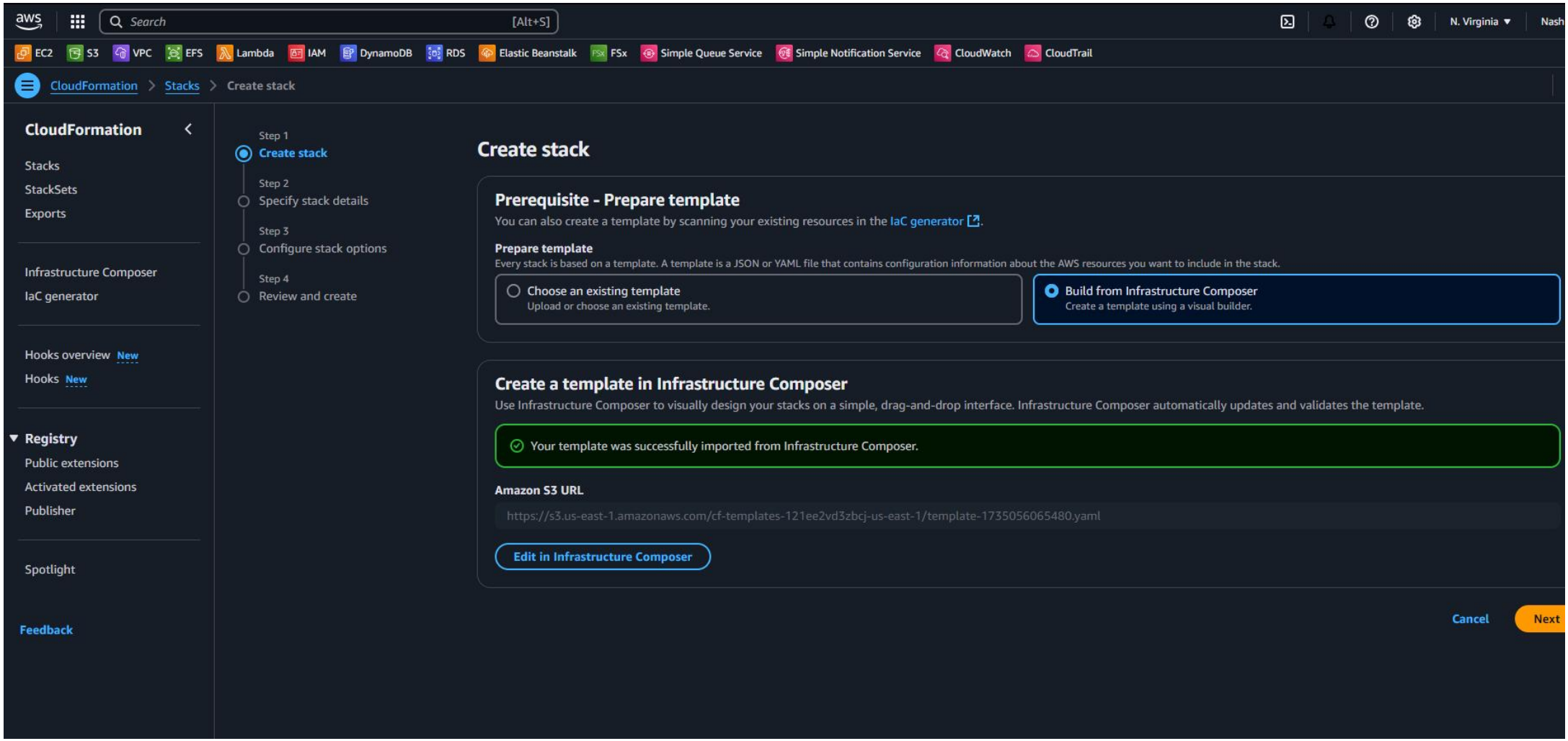
SourceSecurityGroupId
EC2 Instances
WebInstance:
Type: AWS::EC2::Instance
Properties:
InstanceType: t2.micro
ImageId: ami-0c02fb55956c
SubnetId: !Ref PublicSubn
SecurityGroupIds:
- !Ref WebSecurityGroup
KeyName: MyKeyPair # Rep
Tags:
- Key: Name
Value: WebInstance
AppInstance:
Type: AWS::EC2::Instance
Properties:
InstanceType: t2.micro
ImageId: ami-0c02fb55956c7d316 # Amazon Linux 2
SubnetId: !Ref PrivateAppSubnet
SecurityGroupIds:
!Ref AppSecurityGroup
Continue to CloudFormation
We're putting the template in this existing bucket: cf-templates-121ee2vd3zbcj-us-east-1.
For more information, see Using Infrastructure Composer in CloudFormation console mode.
Use a different bucket
Cancel
Confirm and continue to CloudFormation
No template validation errors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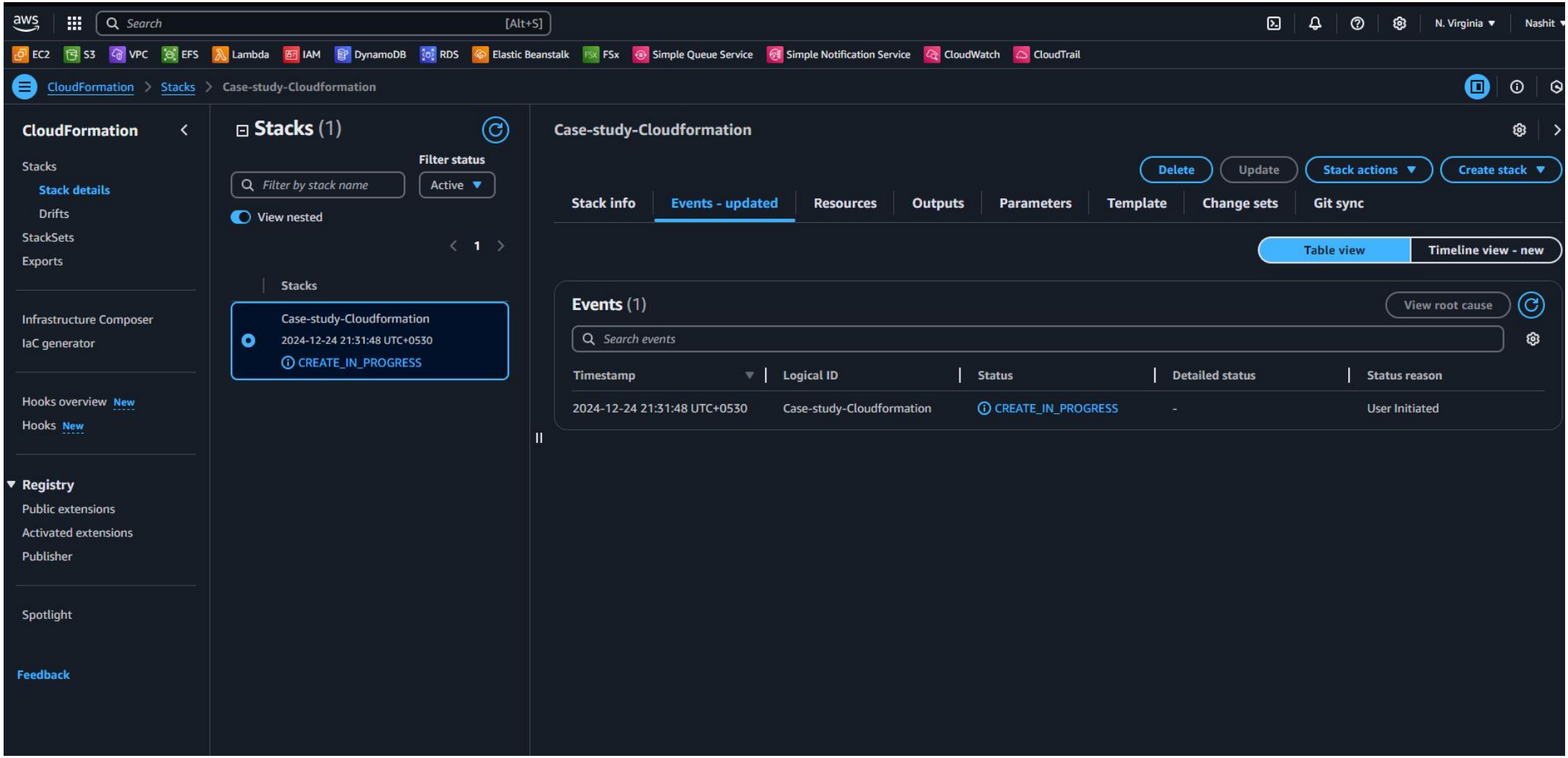
Create a template using a visual builder.
Create a template in Infrastructure Composer
Use Infrastructure Composer to visually design your stacks on a simple, drag-and-drop interface. Infrastructure Composer automatically updates and validates the template.
Your template was successfully imported from Infrastructure Composer.
Amazon S3 URL
https://s3.us-east-1.amazonaws.com/cf-templates-121ee2vd3zbcj-us-east-1/template-1735056065480.yaml
Edit in Infrastructure Composer
Cancel
Next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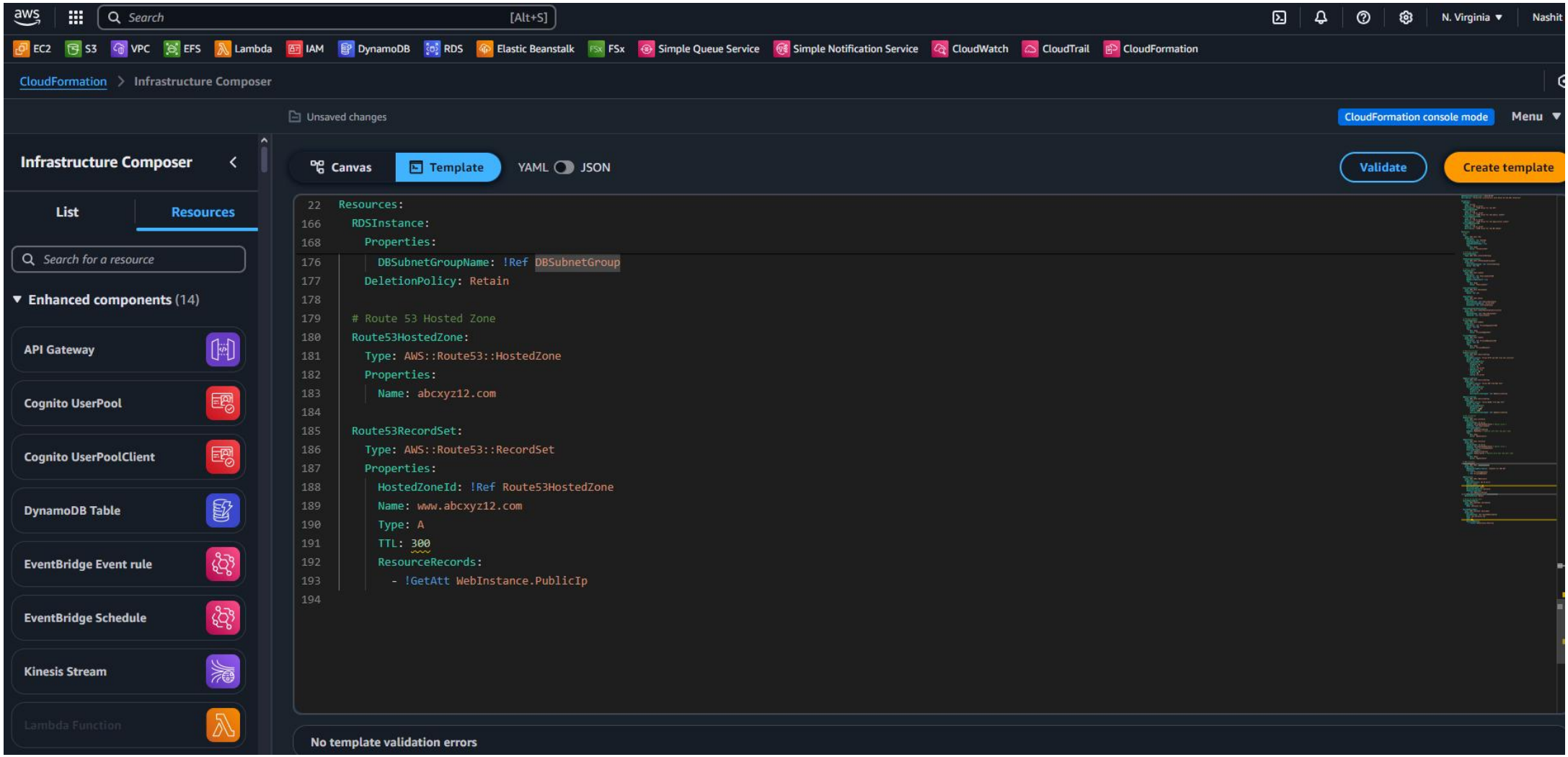
-
User Initiated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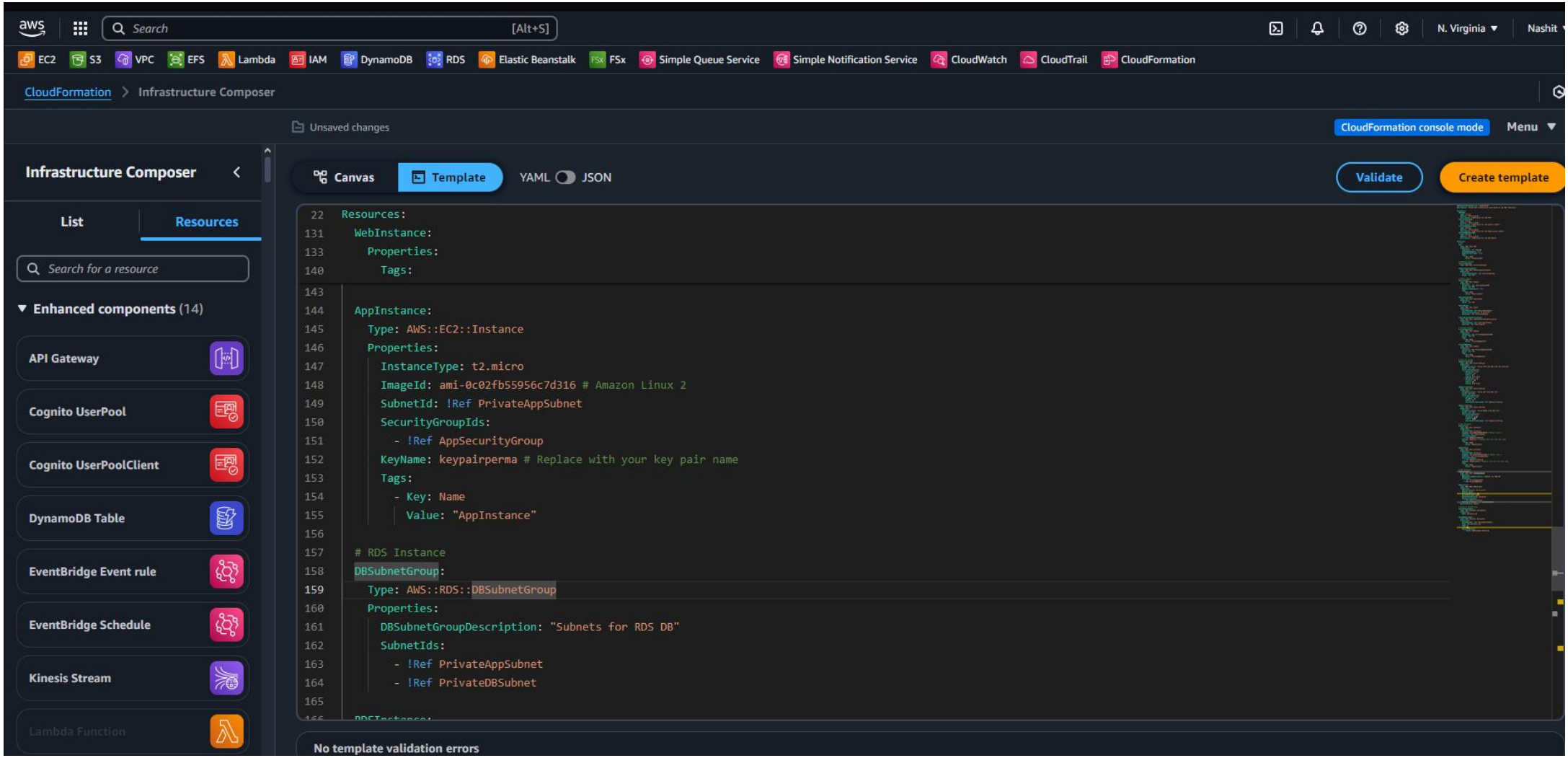
22 Resources:
166 RDSInstance:
168 Properties:
176 DBSubnetGroupName: !Ref DBSubnetGroup
177 DeletionPolicy: Retain
178
179 # Route 53 Hosted Zone
180 Route53HostedZone:
181 Type: AWS::Route53::HostedZone
182 Properties:
183 Name: abcxyz12.com
184
185 Route53RecordSet:
186 Type: AWS::Route53::RecordSet
187 Properties:
188 HostedZoneId: !Ref Route53HostedZone
189 Name: www.abcxyz12.com
190 Type: A
191 TTL: 300
192 ResourceRecords:
193 - !GetAtt WebInstance.PublicIp
194
No template validation errors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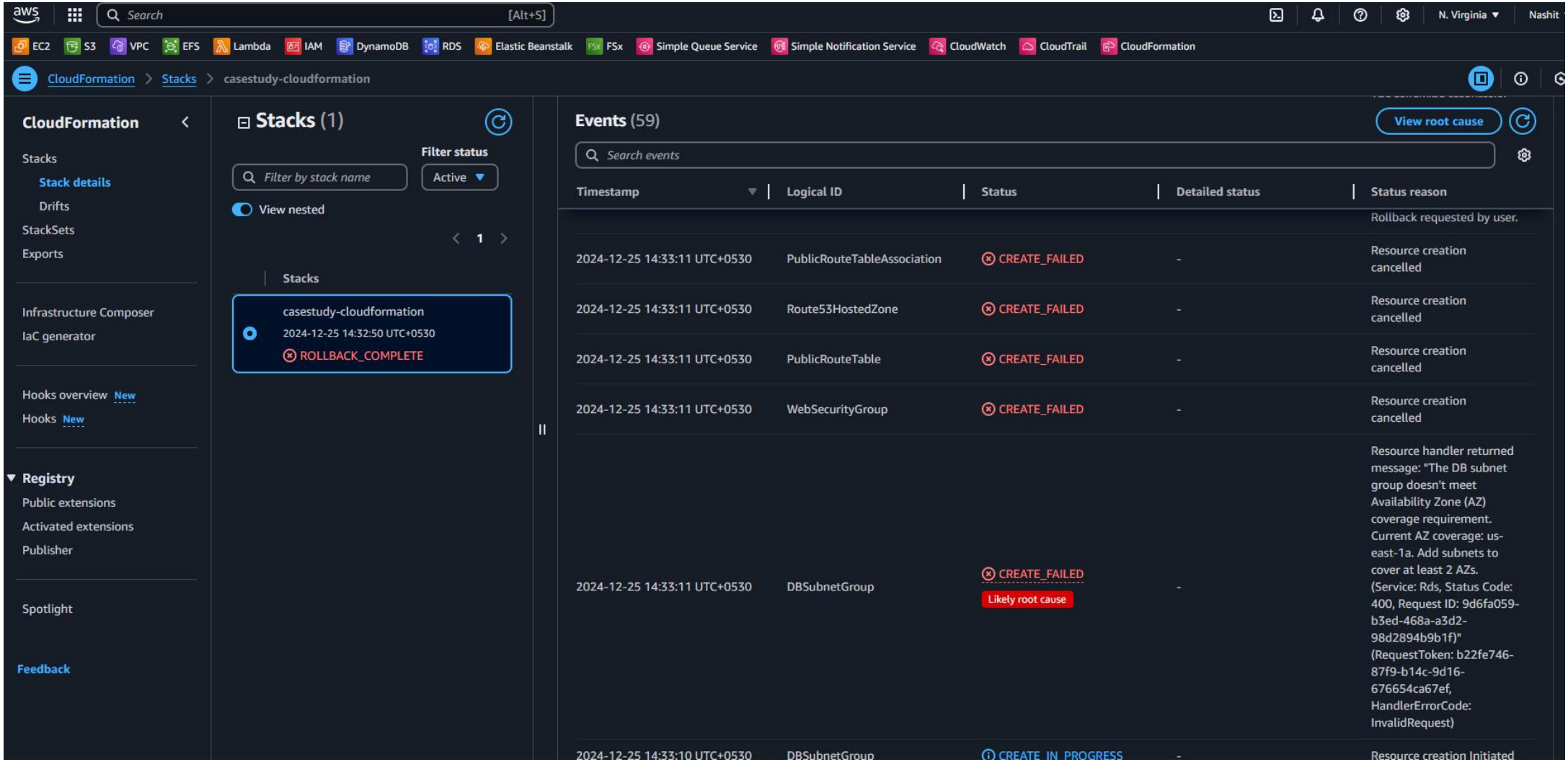
131 WebInstance:
133 Properties:
140 Tags:
143
144 AppInstance:
145 Type: AWS::EC2::Instance
146 Properties:
147 InstanceType: t2.micro
148 ImageId: ami-0c02fb55956c7d316 # Amazon Linux 2
149 SubnetId: !Ref PrivateAppSubnet
150 SecurityGroupIds:
151 - !Ref AppSecurityGroup
152 KeyName: keypairperma # Replace with your key pair name
153 Tags:
154 - Key: Name
155 Value: "AppInstance"
156
157 # RDS Instance
158 DBSubnetGroup:
159 Type: AWS::RDS::DBSubnetGroup
160 Properties:
161 DBSubnetGroupDescription: "Subnets for RDS DB"
162 SubnetIds:
163 - !Ref PrivateAppSubnet
164 - !Ref PrivateDBSubnet
165
No template validation errors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Stacks
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Drifts
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Infrastructure Composer
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Hooks New
Registry
Public extensions
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Feedback
Stacks (1)
Filter by stack name
Filter status
Active
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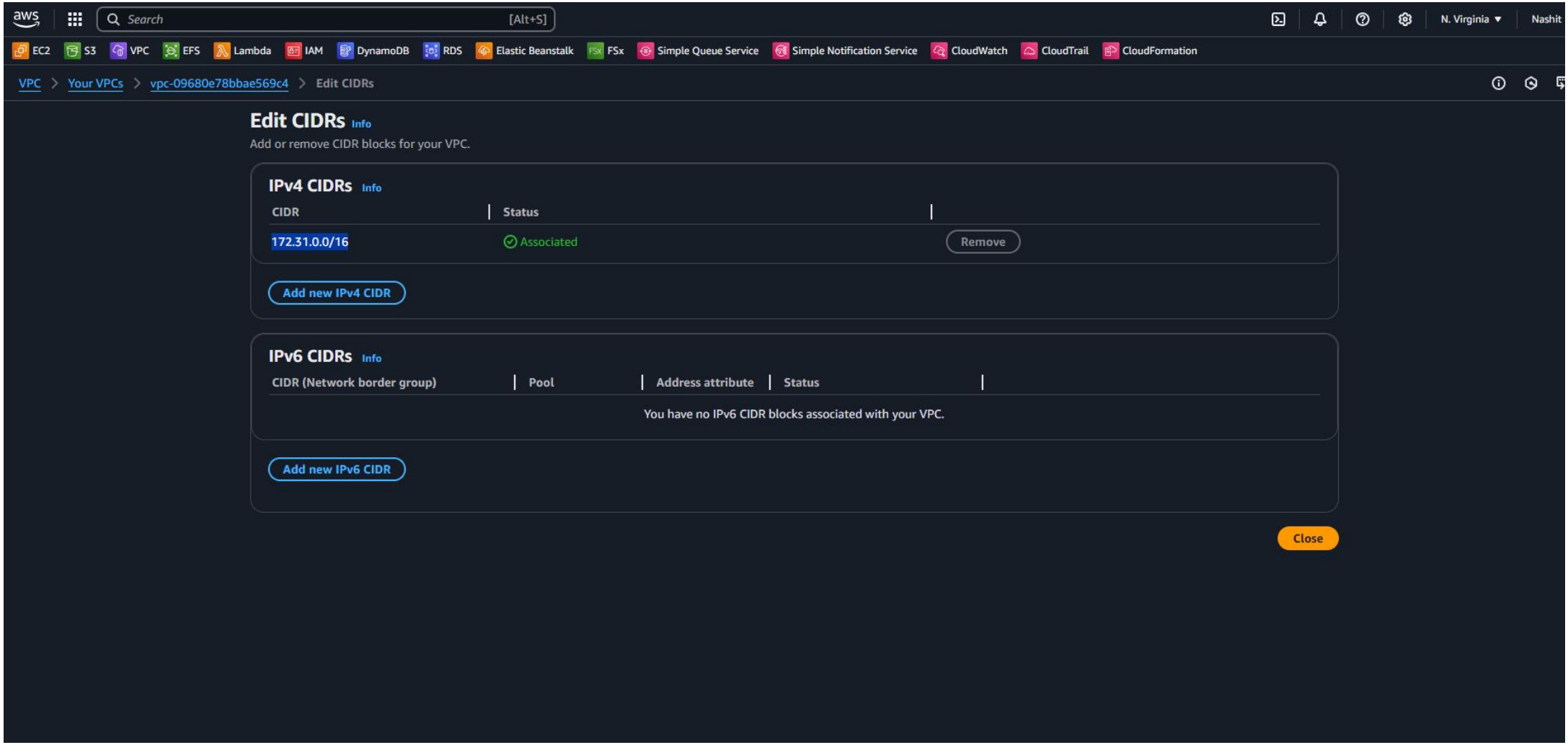
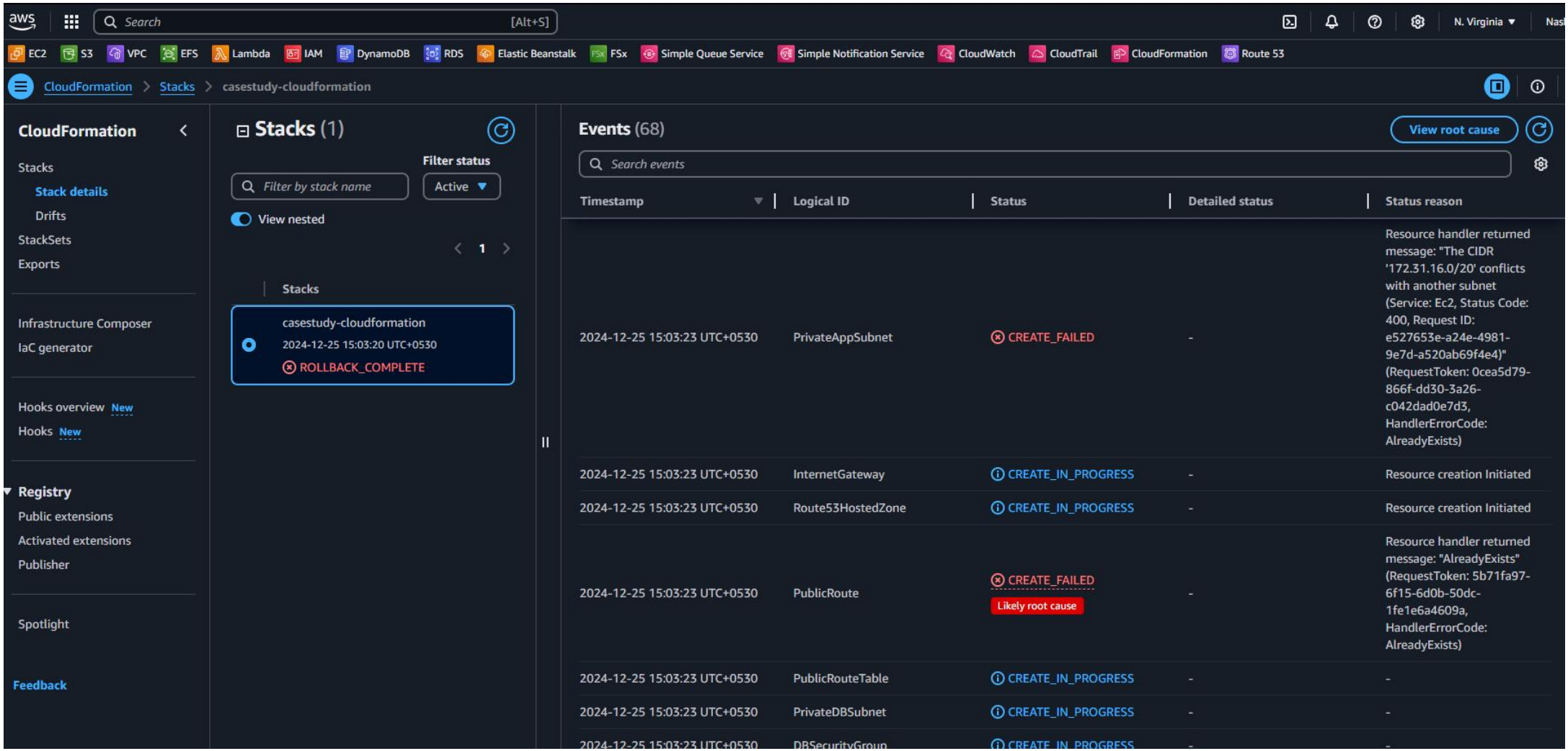
Stacks
casestudy-cloudformation
2024-12-25 14:32:50 UTC+0530
ROLLBACK_COMPLETE
Events (59)
View root cause
Search events
Timestamp
Logical ID
Status
Detailed status
Status reason
Rollback requested by user.
2024-12-25 14:33:11 UTC+0530
PublicRouteTableAssociation
CREATE_FAILED
-
Resource creation cancelled
2024-12-25 14:33:11 UTC+0530
Route53HostedZone
CREATE_FAILED
-
Resource creation cancelled
2024-12-25 14:33:11 UTC+0530
PublicRouteTable
CREATE_FAILED
-
Resource creation cancelled
2024-12-25 14:33:11 UTC+0530
WebSecurityGroup
CREATE_FAILED
-
Resource creation cancelled
2024-12-25 14:33:11 UTC+0530
DBSubnetGroup
CREATE_FAILED
Likely root cause
-
Resource handler returned message: "The DB subnet group doesn't meet Availability Zone (AZ) coverage requirement. Current AZ coverage: us-east-1a. Add subnets to cover at least 2 AZs. (Service: Rds, Status Code: 400, Request ID: 9d6fa059-b3ed-468a-a3d2-98d2894b9b1f)" (RequestToken: b22fe746-87f9-b14c-9d16-676654ca67ef, HandlerErrorCode: InvalidRequest)
2024-12-25 14:33:10 UTC+0530
DBSubnetGroup
CREATE_IN_PROGRESS
-
Resource creation Initiated


aws
Search
[Alt+S]
N. Virginia
Nashit
EC2
S3
VPC
EFS
Lambda
IAM
DynamoDB
RDS
Elastic Beanstalk
FSx
Simple Queue Service
Simple Notification Service
CloudWatch
CloudTrail
CloudFormation
VPC
Your VPCs
vpc-09680e78bbae569c4
Edit CIDRs
Edit CIDRs Info
Add or remove CIDR blocks for your VPC.
IPv4 CIDRs Info
CIDR
Status
172.31.0.0/16
Associated
Remove
Add new IPv4 CIDR
IPv6 CIDRs Info
CIDR (Network border group)
Pool
Address attribute
Status
You have no IPv6 CIDR blocks associated with your VPC.
Add new IPv6 CIDR
Close

```yaml
  VPCCIDR:
    Type: String
    Default: "10.0.0.0/16"
    Description: "CIDR block for the VPC"
  PublicSubnetCIDR:
    Type: String
    Default: "10.0.1.0/24"
    Description: "CIDR block for the public subnet"
  PrivateAppSubnetCIDR:
    Type: String
    Default: "10.0.2.0/24"
    Description: "CIDR block for the application subnet"
  PrivateDBSubnetCIDR:
    Type: String
    Default: "10.0.3.0/24"
    Description: "CIDR block for the DB subnet"

Resources:
  # VPC
  VPC:
    Type: AWS::EC2::VPC
    Properties:
      CidrBlock: 172.31.0.0/16
      EnableDnsSupport: true
      EnableDnsHostnames: true
      Tags:
        - Key: Name
          Value: "ThreeTierVPC"

  # Internet Gateway
  InternetGateway:
    Type: AWS::EC2::InternetGateway

  VPCGatewayAttachment:
    Type: AWS::EC2::VPCGatewayAttachment
    Properties:
      InternetGatewayId: !Ref InternetGateway
      VpcId: !Ref VPC

  # Public Subnet
  PublicSubnet:
    Type: AWS::EC2::Subnet
    Properties:
      CidrBlock: !Ref PublicSubnetCIDR
      VpcId: !Ref VPC
      MapPublicIpOnLaunch: true
```

```yaml
# Public Subnet
PublicSubnet:
  Type: AWS::EC2::Subnet
  Properties:
    CidrBlock: 172.31.80.0/20 #us-east-1a
    VpcId: vpc-09680e78bbae569c4
    MapPublicIpOnLaunch: true
    Tags:
      - Key: Name
        Value: "PublicSubnet"

PublicRouteTable:
  Type: AWS::EC2::RouteTable
  Properties:
    VpcId: vpc-09680e78bbae569c4

PublicRoute:
  Type: AWS::EC2::Route
  Properties:
    RouteTableId: rtb-0c80e08ba0efa74ce
    DestinationCidrBlock: "0.0.0.0/0"
    GatewayId: igw-0912bcb2dea355a9c

PublicRouteTableAssociation:
  Type: AWS::EC2::SubnetRouteTableAssociation
  Properties:
    RouteTableId: rtb-0c80e08ba0efa74ce
    SubnetId: subnet-02bbf8751b6a8663e

# Private Subnets
PrivateAppSubnet:
  Type: AWS::EC2::Subnet
  Properties:
    CidrBlock: 172.31.16.0/20   #us-east-1b
    VpcId: vpc-09680e78bbae569c4
    Tags:
      - Key: Name
        Value: "PrivateAppSubnet"

PrivateDBSubnet:
  Type: AWS::EC2::Subnet
  Properties:
    CidrBlock: 172.31.32.0/20 #us-east-1c
    VpcId: vpc-09680e78bbae569c4
    Tags:
      - Key: Name
        Value: "PrivateDBSubnet"
```

```yaml
    KeyName: keypairperma # Replace with your key pair name
    Tags:
      - Key: Name
        Value: "WebInstance"

AppInstance:
  Type: AWS::EC2::Instance
  Properties:
    InstanceType: t2.micro
    ImageId: ami-0c02fb55956c7d316 # Amazon Linux 2
    SubnetId: subnet-0e90b4c5803868b6c
    SecurityGroupIds:
      - sg-062f5df15694a7237
    KeyName: keypairperma # Replace with your key pair name
    Tags:
      - Key: Name
        Value: "AppInstance"

# RDS Instance
DBSubnetGroup:
  Type: AWS::RDS::DBSubnetGroup
  Properties:
    DBSubnetGroupDescription: "Subnets for RDS DB"
    SubnetIds:
      - subnet-0e90b4c5803868b6c
      - subnet-0e1eb5ffcd6a5ed78

RDSInstance:
  Type: AWS::RDS::DBInstance
  Properties:
    DBInstanceClass: db.t3.micro
    Engine: mysql
    AllocatedStorage: 100
    MasterUsername: admin
    MasterUserPassword: password
    VPCSecurityGroups:
      - sg-062f5df15694a7237
    DBSubnetGroupName:
  DeletionPolicy: Retain

# Route 53 Hosted Zone
Route53HostedZone:
  Type: AWS::Route53::HostedZone
  Properties:
    Name: koma123.com

Route53RecordSet:
  Type: AWS::Route53::RecordSet
```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Filter by stack name
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Filter status
View nested
1
Stacks
casestudy-cloudformation
2024-12-25 15:03:20 UTC+0530
ROLLBACK_COMPLETE
Events (68)
View root cause
Search events
Timestamp
Logical ID
Status
Detailed status
Status reason
2024-12-25 15:03:23 UTC+0530
PrivateAppSubnet
CREATE_FAILED
-
Resource handler returned message: "The CIDR '172.31.16.0/20' conflicts with another subnet (Service: Ec2, Status Code: 400, Request ID: e527653e-a24e-4981-9e7d-a520ab69f4e4)" (RequestToken: 0cea5d79-866f-dd30-3a26-c042dad0e7d3, HandlerErrorCode: AlreadyExists)
2024-12-25 15:03:23 UTC+0530
InternetGateway
CREATE_IN_PROGRESS
-
Resource creation Initiated
2024-12-25 15:03:23 UTC+0530
Route53HostedZone
CREATE_IN_PROGRESS
-
Resource creation Initiated
2024-12-25 15:03:23 UTC+0530
PublicRoute
CREATE_FAILED
Likely root cause
-
Resource handler returned message: "AlreadyExists" (RequestToken: 5b71fa97-6f15-6d0b-50dc-1fe1e6a4609a, HandlerErrorCode: AlreadyExists)
2024-12-25 15:03:23 UTC+0530
PublicRouteTable
CREATE_IN_PROGRESS
-
-
2024-12-25 15:03:23 UTC+0530
PrivateDBSubnet
CREATE_IN_PROGRESS
-
-
2024-12-25 15:03:23 UTC+0530
DBSecurityGroup
CREATE_IN_PROGRESS
-
-