

## Splitting your CDK stack into multiple parts to reduce blast radius



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In this episode on 4 Sept 2020, we start to break our monolithic application into multiple smaller part by moving the Amazon Route53 creation to its own stack. The DNS kept changing each time we tore down the stack, so we decided it is time to split things up.

## Today: We continue to build an application with AWS CDK.

darko@x1 /home/darko/repos/beanstream-cdk-infra/node\_modules

beans~	bin	3	...
bin	cdk.out	7	
build~	lib	3	
cdktf~	node_modules	385	
codes~	test	3	
darko~	cdk.context.json	413 B	
dotfi~	cdk.json	164 B	
java_~	jest.config.js	130 B	
nvim	package-lock.json	358 K	
video~	package.json	1.04 K	
works~	README.md	543 B	
	tsconfig.json	598 B	

[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) → ranger

[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) → vim lib/beanstram01-cdk-stack.ts

```
1 import * as cdk from '@aws-cdk/core';
2 import * as codecommit from '@aws-cdk/aws-codecommit';
3 import * as codepipeline from '@aws-cdk/aws-codepipeline';
4 import * as codepipelineActions from '@aws-cdk/aws-codepipeline-actions';
5 import * as codebuild from '@aws-cdk/aws-codebuild';
6 import * as ecr from '@aws-cdk/aws-ecr';
7 import * as ecs from '@aws-cdk/aws-ecs';
8 import * as ec2 from '@aws-cdk/aws-ec2';
9 import * as elbv2 from '@aws-cdk/aws-elasticloadbalancingv2';
10 import * as acm from '@aws-cdk/aws-certificatemanager';
11 import * as r53 from '@aws-cdk/aws-route53';
12 import * as r53targets from '@aws-cdk/aws-route53-targets';
13 import * as r53patterns from '@aws-cdk/aws-route53-patterns';
14
15
```

```
16 export class Beanstram01CdkStack extends cdk.Stack {
17   constructor(scope: cdk.Construct, id: string, props?: cdk.StackProps) {
18     super(scope, id, props);
19
20     // The code that defines your stack goes here
21
22     // --- VARIABLES ---
23     const apexDomain = 'beardedbaldbears.com'
24     const wwwDomain = 'www.beardedbaldbears.com'
25
26     // --- route 53 ---
27     const hostedZone = new r53.PublicHostedZone(this, 'HostedZone', {
28       zoneName: 'beardedbaldbears.com'
29     });
30
31     // --- vpc ---
32     const myVpc = new ec2.Vpc(this, 'myVpc');
```

```
31 // --- vpc ---
32 const myVpc = new ec2.Vpc(this, 'myVpc');
33
34 // --- code repo ---
35 // AWS CodeCommit
36 const repo = new codecommit.Repository(this, 'myRepo', {
37   repositoryName: 'beanstreaming-webapp',
38   description: 'This is the beanstreaming web app - do not touch.',
39 });
40
41 // --- pipeline ---
42 const pipeline = new codepipeline.Pipeline(this, 'myPipeline', {
43   pipelineName: 'beanstream-webapp-pipeline',
44 });
45
```

```
46 // --- source stage and stuff ---
47 const sourceOutput = new codepipeline.Artifact();
48 const sourceAction = new codepipelineActions.CodeCommitSourceAction({
49   actionName: 'CodeCommit-checkout',
50   repository: repo,
51   branch: 'main',
52   output: sourceOutput,
53 });
54
```

```
55 pipeline.addStage({
56   stageName: 'Source',
57   actions: [sourceAction],
58 });
59
60 // --- build stage and stuff ---
61 const buildOutput = new codepipeline.Artifact();
62 const buildProject = new codebuild.PipelineProject(this, 'myBuildProject');
63 const buildAction = new codepipelineActions.CodeBuildAction({
64   actionName: 'CodeBuild-Build',
65   project: buildProject,
66   input: sourceOutput,
67   outputs: [buildOutput],

```

```
67   outputs: [buildOutput],
68 });
69
70 pipeline.addStage({
71   stageName: 'Build',
72   actions: [buildAction],
73 });
74
75 // --- ecs ---
76 // ECR
77 const containerRepo = new ecr.Repository(this, 'myECRepo', {
78   imageScanOnPush: true,
79 });
80
81 // ECS - Cluster
82 const cluster = new ecs.Cluster(this, 'webAppCluster', {
83   vpc: myVpc,
84 });
85
```

```
86 // ECS Task Definition
87 const taskDefinition = new ecs.FargateTaskDefinition(this, 'webAppTaskDef');
88
89 const webAppContainer = taskDefinition.addContainer('webAppContainer', {
90   //image: ecs.ContainerImage.fromRegistry("amazon/amazon-ecs-sample"),
91   image: ecs.ContainerImage.fromRegistry('daviey/nyan-cat-web'),
92   memoryLimitMiB: 512,
93 });
94
95 webAppContainer.addPortMappings({
96   containerPort: 80,
97 });
98
99 // Instantiate an Amazon ECS Service
100 const webAppECSService = new ecs.FargateService(this, 'webAppService', {
101   cluster,
```

```
99 // Instantiate an Amazon ECS Service
100 const webAppECSService = new ecs.FargateService(this, 'webAppService', {
101   cluster,
102   taskDefinition,
103   desiredCount: 3,
104 });
105
106 // --- load balancer ---
107 const webLb = new elbv2.ApplicationLoadBalancer(this, 'beanStreamingALB', {
108   vpc: myVpc,
109   internetFacing: true,
110 });
111
```

```
111
112 // --- http / tcp/80 listener
113 const webLbListener = webLb.addListener('beanStreamingHTTP',{
114   port: 80,
115   open: true,
116 });
117
118 webLbListener.addTargetGroups('webLbWebAppTargets', {
119   targets: [ webAppECSService],
120   port: 80,
121 });
```

```
123 // --- http / tcp/443 listener
124
125 // --- SSL cert ---
126 const cert = new acm.DnsValidatedCertificate(this, 'BeanStreamingECS', {
127   domainName: apexDomain,
128   subjectAlternativeNames: [wwwDomain],
129   hostedZone: hostedZone
130 });
131
132 //new ApplicationListenerCertificate
133
```



```

132 //new ApplicationListenerCertificate
133
134 const web443LbListener = webLb.addListener('beanStreamingHTTPS',{
135     port: 443,
136     open: true,
137     certificates: [ cert ]
138 });
139
140 web443LbListener.addTarget('webLbWebAppTargets', {
141     targets: [ webAppECSService],
142     port: 80,
143 });
144
145
146 // --- dns ---
147 //new r53.ARecord(this, 'BeanstreamingALBwww', {
148 //    zone: hostedZone,
149 //    target: r53.RecordTarget.fromAlias(new r53targets.LoadBalancerTarget(webL
150 //    recordName: "www",

```

```

150 //    recordName: "www",
151 //});
152
153 new r53.ARecord(this, 'BeanstreamingALBapex', {
154     zone: hostedZone,
155     target: r53.RecordTarget.fromAlias(new r53targets.LoadBalancerTarget(webLb)
156 });
157
158 new r53patterns.HttpsRedirect(this, 'httpsRedirect', {
159     recordNames: [wwwDomain],
160     targetDomain: apexDomain,
161     zone: hostedZone,
162 });
163

```

```

164 // --- load balancer dns ---
165 webLbListener.addAction("httpTohttps", {
166     action: elbv2.ListenerAction.redirect({
167         protocol: "HTTPS",
168         port: "443",
169         permanent: true,
170         host: apexDomain
171     })
172 });
173
174 // --- Add cert to LB ---
175 // --- database ---
176 // --- cdn ---
177
178 // --- OUTPUTS ---
179
180 new cdk.CfnOutput(this, 'ELB_URL', { value: webLb.loadBalancerDnsName!});
181 }
182 }

```

```

Welcome to fish, the friendly interactive shell
Type 'help' for instructions on how to use fish
[1] [0] darko@x1 ~/r/b/lib (main) → rr

```

```

darko@x1 /home/darko/repos/beanstream-cdk-infra/lib/beanstram01-cdk-stack.d.ts

```

<ul style="list-style-type: none"> <li>bin</li> <li>c~.out</li> <li>lib</li> <li>node_~</li> <li>test</li> <li>( ) ~.json</li> <li>( ) ~.json</li> <li>JS je~.js</li> <li>( ) ~.json</li> <li>( ) ~.json</li> <li>RE~.md</li> <li>( ) ~.json</li> </ul>	<pre> TS beanstram01-cdk-s~.ts 176 B JS beanstram01-cdk-~.js 18.2 K TS beanstram01-cdk-~.ts 5.16 K </pre>	<pre> import * as cdk from '@aws-cdk/core'; export declare class Beanstram01CdkStack ex     constructor(scope: cdk.Construct, id: s } </pre>
---	---	--

```

darko@x1 /home/darko/repos/beanstream-cdk-infra/lib

```

<ul style="list-style-type: none"> <li>beans~</li> <li>bin</li> <li>build~</li> <li>cdktf~</li> <li>codes~</li> <li>darko~</li> <li>dotfi~</li> <li>java_~</li> <li>nvim</li> <li>video~</li> <li>works~</li> </ul>	<ul style="list-style-type: none"> <li>bin 3</li> <li>cdk.out 7</li> <li>lib 3</li> <li>node_modules 385</li> <li>test 3</li> <li>( ) cdk.context.json 413 B</li> <li>( ) cdk.json 164 B</li> <li>JS jest.config.js 130 B</li> <li>( ) package-lock.json 358 K</li> <li>( ) package.json 1.04 K</li> <li>★ README.md 543 B</li> <li>( ) tsconfig.json 598 B</li> </ul>	<pre> TS beanstram01-cdk-stack.d.ts JS beanstram01-cdk-stack.js TS beanstram01-cdk-stack.ts </pre>
---	--	--

```

[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) → ranger
[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) → cdk deploy Sydney

```

Doing a **cdk deploy** command will be deployed thru a single CF stack, we can split the DNS part of the Route53 hosted host into its own part in a different stack. To create a 2<sup>nd</sup> stack, create a 2<sup>nd</sup> file inside the lib directory above and move the relevant contents into it.

```

1 import * as cdk from '@aws-cdk/core';
2 import * as codecommit from '@aws-cdk/aws-codecommit';
3 import * as codepipeline from '@aws-cdk/aws-codepipeline';
4 import * as codepipelineActions from '@aws-cdk/aws-codepipeline-actions';
5 import * as codebuild from '@aws-cdk/aws-codebuild';
6 import * as ecr from '@aws-cdk/aws-ecr';
7 import * as ecs from '@aws-cdk/aws-ecs';
8 import * as ec2 from '@aws-cdk/aws-ec2';
9 import * as elbv2 from '@aws-cdk/aws-elasticloadbalancingv2';
10 import * as acm from '@aws-cdk/aws-certificatemanager';
11 import * as r53 from '@aws-cdk/aws-route53';
12 import * as r53targets from '@aws-cdk/aws-route53-targets';
13 import * as r53patterns from '@aws-cdk/aws-route53-patterns';
14
15
16 export class Beanstram01CdkStack extends cdk.Stack {
17     constructor(scope: cdk.Construct, id: string, props?: cdk.StackProps) {
18         super(scope, id, props);
19

```

Copy this content into the new file, rename the class name and delete unneeded parts to get the below file



```
1 import * as cdk from '@aws-cdk/core';
2 import * as r53 from '@aws-cdk/aws-route53';
3
4 export class DnsStack extends cdk.Stack {
5   constructor(scope: cdk.Construct, id: string, props?: cdk.StackProps) {
6     super(scope, id, props);
7
8     // The code that defines your stack goes here
9
10    // --- route 53 ---
11    const hostedZone = new r53.PublicHostedZone(this, 'HostedZone', {
12      zoneName: 'beardedbaldbears.com'
13    });
14  }
15 }
```

We can share constructs between different stacks to share that resources BUT we cannot share stacks.



```
1 import * as cdk from '@aws-cdk/core';
2 import * as r53 from '@aws-cdk/aws-route53';
3
4 export class DnsStack extends cdk.Stack {
5   constructor(scope: cdk.Construct, id: string, props?: cdk.StackProps) {
6     super(scope, id, props);
7
8     // The code that defines your stack goes here
9
10    // --- route 53 ---
11    const hostedZone = new r53.PublicHostedZone(this, 'HostedZone', {
12      zoneName: 'beardedbaldbears.com'
13    });
14  }
15 }
```



```
1 #!/usr/bin/env node
2 import 'source-map-support/register';
3 import * as cdk from '@aws-cdk/core';
4 import { Beanstram01CdkStack } from '../lib/beanstram01-cdk-stack';
5
6 const app = new cdk.App();
7 new Beanstram01CdkStack(app, 'main', {
8   env: {
9     region: 'eu-west-1',
10     account: '824852318651'
11   }
12 });
```

This is where we will define our stacks. We run **cdk deploy** command to deploy all our defined stacks here



```

1 #!/usr/bin/env node
2 import 'source-map-support/register';
3 import * as cdk from '@aws-cdk/core';
4 import { Beanstram01CdkStack } from '../lib/beanstram01-cdk-stack';
5 import { DnsStack } from '../lib/dns-stack';
6
7 const app = new cdk.App();
8 new DnsStack(app, 'dns', {
9   env: {
10     region: 'eu-west-1',
11     account: '824852318651'
12   }
13 });
14 new Beanstram01CdkStack(app, 'main', {
15   env: {
16     region: 'eu-west-1',
17     account: '824852318651'
18   }
19 });

```

ORMAL beanstram01-cdk.ts unix | utf-8 | typescript 36% 7:22

We can now create 2 stacks called **dns** and **main** when we run the **cdk deploy** command.

```

1 #!/usr/bin/env node
2 import 'source-map-support/register';
3 imp
4 imp > lib < 2/38
5 imp lib/dns-stack.ts
6 imp > lib/beanstram01-cdk-stack.ts
7 con
8 new
9
10
11
12
13 });
14 new
15
16
17
18
19 });

```

```

import * as cdk from '@aws-cdk/core';
import * as codecommit from '@aws-cdk/aws-codecommit';
import * as codepipeline from '@aws-cdk/aws-codepipeline';
import * as codebuild from '@aws-cdk/aws-codebuild';
import * as ecr from '@aws-cdk/aws-ecr';
import * as ecs from '@aws-cdk/aws-ecs';
import * as ec2 from '@aws-cdk/aws-ec2';
import * as elbv2 from '@aws-cdk/aws-elasticloadbalancingv2';
import * as acm from '@aws-cdk/aws-certificatemanager';
import * as r53 from '@aws-cdk/aws-route53';
import * as r53targets from '@aws-cdk/aws-route53-targets';
import * as r53pattern from '@aws-cdk/aws-route53-patterns';

```

beanstram01-cdk.ts 57% 11:22

Files

TERMINAL --

1 > nvim 2 > python 2020-09-04 < Berlin: 18C darko@x1

```

1 import * as cdk from '@aws-cdk/core';
2 import * as codecommit from '@aws-cdk/aws-codecommit';
3 import * as codepipeline from '@aws-cdk/aws-codepipeline';
4 import * as codepipelineActions from '@aws-cdk/aws-codepipeline-actions';
5 import * as codebuild from '@aws-cdk/aws-codebuild';
6 import * as ecr from '@aws-cdk/aws-ecr';
7 import * as ecs from '@aws-cdk/aws-ecs';
8 import * as ec2 from '@aws-cdk/aws-ec2';
9 import * as elbv2 from '@aws-cdk/aws-elasticloadbalancingv2';
10 import * as acm from '@aws-cdk/aws-certificatemanager';
11 import * as r53 from '@aws-cdk/aws-route53';
12 import * as r53targets from '@aws-cdk/aws-route53-targets';
13 import * as r53patterns from '@aws-cdk/aws-route53-patterns';
14
15
16 export class Beanstream01CdkStack extends cdk.Stack {
17   constructor(scope: cdk.Construct, id: string, props?: cdk.StackProps) {
18     super(scope, id, props);
19

```

NORMAL beanstream01-cdk-stack.ts unix | utf-8 | typescript 1% 2:1

In our **main** stack file above, we need to remove the **dns** part since we are separating it out into its own stack.

```

16 export class Beanstream01CdkStack extends cdk.Stack {
17   constructor(scope: cdk.Construct, id: string, props?: cdk.StackProps) {
18     super(scope, id, props);
19
20     // The code that defines your stack goes here
21
22     // --- VARIABLES ---
23     const apexDomain = 'beardedbaldbears.com'
24     const wwwDomain = 'www.beardedbaldbears.com'
25
26     // --- route 53 ---
27     //const hostedZone = new r53.PublicHostedZone(this, 'HostedZone', {
28     //  zoneName: 'beardedbaldbears.com'
29     //});
30
31     // --- vpc ---
32     const myVpc = new ec2.Vpc(this, 'myVpc');

```

COMMAND beanstream01-cdk-stack.ts | + unix | utf-8 | typescript 15% 28:5

```

117
118     webLbListener.addTarget('webLbWebAppTargets', {
119       targets: [ webAppECSService],
120       port: 80,
121     });
122
123     // --- http / tcp/443 listener
124
125     // --- SSL cert ---
126     const cert = new acm.DnsValidatedCertificate(this, 'BeanStreamingECS', {
127       domainName: apexDomain,
128       subjectAlternativeNames: [wwwDomain],
129       hostedZone: hostedZone
130     });
131     // [tsserver 2304] [E] Cannot find name 'hostedZone'.
132
133     //new ApplicationListenerCertificate
134
135     const web443LbListener = webLb.addListener('beanStreamingHTTPS',{

```

NORMAL beanstream01-cdk-stack.ts unix | utf-8 | typescript 70% 129:19

We now get an error because the cert is referencing the **hostedZone** dns object. We need to define a hostedZone



```

123 // --- http / tcp/443 listener
124 hostedZone = r53.HostedZone.fromLookup(this, 'beanHostedZone',
125                                     |
126                                     );
127
128 // --- SSL cert ---
129 const cert = new acm.DnsValidatedCertificate(this, 'BeanStreamingECS', {
130     domainName: apexDomain,
131     subjectAlternativeNames: [wwwDomain],
132     hostedZone: hostedZone
133 });
134
135 //new ApplicationListenerCertificate
136
137 const web443LbListener = webLb.addListener('beanStreamingHTTPS',{
138     port: 443,
139     open: true,

```

INSERT beanstram01-cdk-stack.ts | + unix | utf-8 | typescript 67% 125:44

```

2 import 'source-map-support/register';
3 import * as cdk from '@aws-cdk/core';
4 import { Beanstram01CdkStack } from '../lib/beanstram01-cdk-stack';
5 import { DnsStack } from '../lib/dns-stack';
6
7 // --- variables ---
8 const dnsName = 'beardedbaldbbeans.com'
9
10 const app = new cdk.App();
11 new DnsStack(app, 'dns', {
12     env: {
13         region: 'eu-west-1',
14         account: '824852318651'
15     }
16 });
17 //new Beanstram01CdkStack(app, 'main', {
18 //    env: {
19 //        region: 'eu-west-1',
20 //        account: '824852318651'

```

INSERT beanstram01-cdk.ts | + unix | utf-8 | typescript 40% 9:1

```

4 import { Beanstram01CdkStack } from '../lib/beanstram01-cdk-stack';
5 import { DnsStack } from '../lib/dns-stack';
6
7 // --- variables ---
8 const dnsName = 'beardedbaldbbeans.com'
9
10 const app = new cdk.App();
11 new DnsStack(app, 'dns', {
12     dnsName: dnsName,
13     env: {
14         region: 'eu-west-1',
15         account: '824852318651'
16     }
17 });
18 //new Beanstram01CdkStack(app, 'main', {
19 //    env: {
20 //        region: 'eu-west-1',
21 //        account: '824852318651'
22 //    }

```

ORMAL beanstram01-cdk.ts | + unix | utf-8 | typescript 47% 11:21

```
[1] [0] darko@x1 ~/r/beanstream-cdk-infra (main) → cdk ls
dns
main
[1] [0] darko@x1 ~/r/beanstream-cdk-infra (main) → cdk deploy
```

```
1 import * as cdk from '@aws-cdk/core';
2 import * as r53 from '@aws-cdk/aws-route53';
3
4 export class DnsStack extends cdk.Stack {
5   constructor(scope: cdk.Construct, id: string, props?: cdk.StackProps) {
6     super(scope, id, props);
7
8     // The code that defines your stack goes here
9
10    // --- route 53 ---
11    const hostedZone = new r53.PublicHostedZone(this, 'HostedZone', {
12      zoneName: 'beardedbaldbears.com'
13    });
14  }
15 }
```

```
1 import * as cdk from '@aws-cdk/core';
2 import * as r53 from '@aws-cdk/aws-route53';
3
4 // Properties defined where we determine if this is a prod stack or not
5 interface DnsStackProps extends cdk.StackProps {
6   dnsName: string;
7 }
8
9 export class DnsStack extends cdk.Stack {
10   constructor(scope: cdk.Construct, id: string, props: DnsStackProps) {
11     super(scope, id, props);
12
13     // The code that defines your stack goes here
14
15     // --- route 53 ---
16     const hostedZone = new r53.PublicHostedZone(this, 'HostedZone', {
17       zoneName: props.dnsName
18     });
19   }
20 }
```

```
1 #!/usr/bin/env node
2 import 'source-map-support/register';
3 import * as cdk from '@aws-cdk/core';
4 import { Beanstram01CdkStack } from '../lib/beanstram01-cdk-stack';
5 import { DnsStack } from '../lib/dns-stack';
6
7 // --- variables ---
8 const dnsName = 'beardedbaldbears.com'
9
10 const app = new cdk.App();
11 new DnsStack(app, 'dns', {
12   dnsName: dnsName,
13   env: {
14     region: 'eu-west-1',
15     account: '824852318651'
16   }
17 });
18 // new Beanstram01CdkStack(app, 'main', {
19 //   env: {
20 //     region: 'eu-west-1',
21 //     account: '824852318651'
22 //   }
23 // });
```

```
>>import * as cdk from '@aws-cdk/core';
>>import * as lambda from '@aws-cdk/aws-lambda';
>>import * as apigw from '@aws-cdk/aws-apigateway';
>>import * as dynamodb from '@aws-cdk/aws-dynamodb';

// Properties defined where we determine if this is a prod stack or not
interface EnvStackProps extends cdk.StackProps {
  prod: boolean;
}

export class HelloServerlessCdkStack extends cdk.Stack {
  constructor(scope: cdk.Construct, id: string, props?: EnvStackProps) {
    super(scope, id, props);

    // The code that defines your stack goes here
    // Defining the prod or no prod
    if (props && props.prod) { // prod
      var dynamoDbReadWrite = 200;
      var apiGatewayName = 'PROD_cdk_api';
      var tableName = 'PROD_cdk_users';
      var lambdaVars = { 'TABLE_NAME': tableName };
      var concurrency = 100;
    } else { // not prod
    }
  }
}
```

NORMAL hello\_serverless\_cdk-stack.ts unix | utf-8 | typescript 23% 20:1

```
Welcome to fish, the friendly interactive shell
Type 'help' for instructions on how to use fish

[I] [0] darko@x1 ~/r/b/lib (main) → rr
[I] [0] darko@x1 ~/r/b/lib (main) →
[I] [0] darko@x1 ~/r/b/lib (main) →
[I] [0] darko@x1 ~/r/b/lib (main) →
[I] [0] darko@x1 ~/r/b/lib (main) → cd
[I] [0] darko@x1 ~ → cd repos/beanstream-cdk-infra/
[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) →
[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) → ll
total 416K
drwxr-xr-x  2 darko darko  4.0K Aug 31 11:08 bin/
-rw-r--r--  1 darko darko  413 Aug 31 11:19 cdk.context.json
-rw-r--r--  1 darko darko  164 Aug 31 10:59 cdk.json
drwxr-xr-x  5 darko darko  4.0K Sep  4 11:21 cdk.out/
-rw-r--r--  1 darko darko  130 Aug 31 10:59 jest.config.js
drwxr-xr-x  2 darko darko  4.0K Sep  4 11:11 lib/
drwxr-xr-x 387 darko darko  16K Aug 31 11:36 node_modules/
-rw-r--r--  1 darko darko  1.1K Aug 31 11:36 package.json
-rw-r--r--  1 darko darko 358K Aug 31 11:36 package-lock.json
-rw-r--r--  1 darko darko  543 Aug 31 10:59 README.md
drwxr-xr-x  2 darko darko  4.0K Aug 31 11:08 test/
-rw-r--r--  1 darko darko  598 Aug 31 10:59 tsconfig.json
[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) →
```

```
[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) → cdk deploy dns
dns: deploying...
dns: creating CloudFormation changeset...
[ ] .....] (1/3)

11:33:40 AM | CREATE_IN_PROGRESS | AWS::CloudFormation::Stack | dns
11:33:44 AM | CREATE_IN_PROGRESS | AWS::Route53::HostedZone | HostedZone
```

```
[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) → cdk deploy dns
dns: deploying...
dns: creating CloudFormation changeset...
[ ] .....] (3/3)

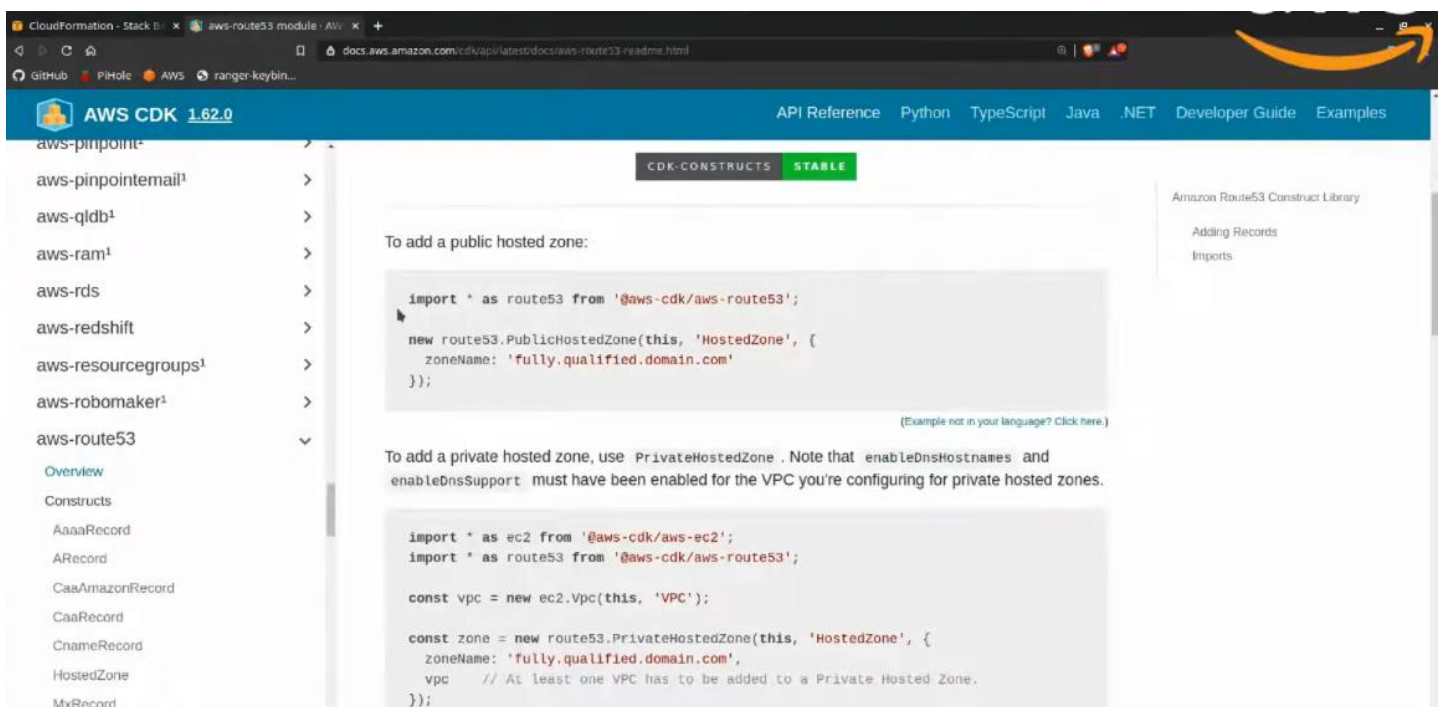
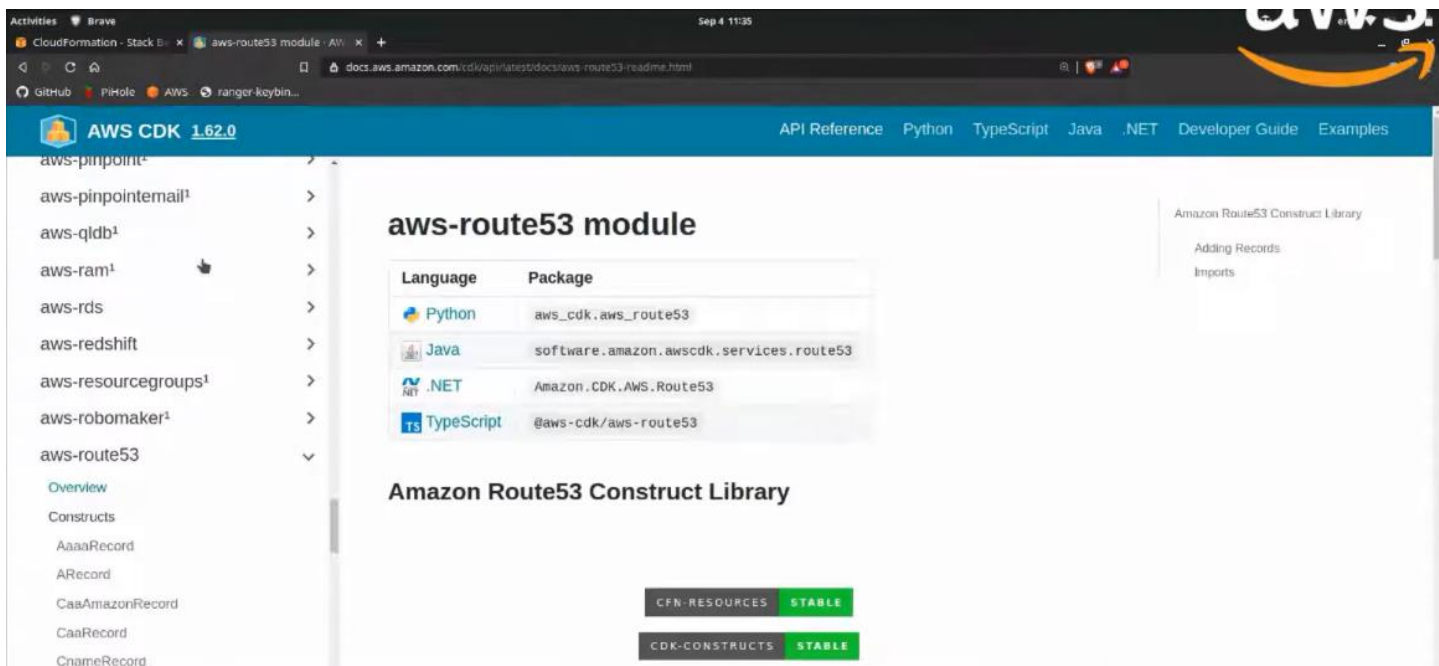
[✓] dns

Stack ARN:
arn:aws:cloudformation:eu-west-1:824852318651:stack/dns/b3f9e9b0-ee91-11ea-961d-021e20b443de
[I] [0] darko@x1 ~/r/beanstream-cdk-infra (main) →
```





<https://docs.aws.amazon.com/cdk/api/v2/>



docs.aws.amazon.com/cdkapi/latest/docs/aws-route53-readme.html

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AaaaRecord

ARecord

CaaAmazonRecord

CaaRecord

CnameRecord

HostedZone

MxRecord

PrivateHostedZone

PublicHostedZone

RecordSet

certificates for a domain to Amazon only.

### Imports

If you don't know the ID of the Hosted Zone to import, you can use the `HostedZone.fromLookup`:

```
HostedZone.fromLookup(this, 'MyZone', {
  domainName: 'example.com'
});
```

(Example not in your language? Click here.)

`HostedZone.fromLookup` requires an environment to be configured. Check out the [documentation](#) for more documentation and examples. CDK automatically looks into your `~/.aws/config` file for the `[default]` profile. If you want to specify a different account run `cdk deploy --profile [profile]`.

```
new MyDevStack(app, 'dev', {
  env: {
    account: process.env.CDK_DEFAULT_ACCOUNT,
    region: process.env.CDK_DEFAULT_REGION
  }
});
```

(Example not in your language? Click here.)

If you know the ID and Name of a Hosted Zone, you can import it directly:

```
const zone = HostedZone.fromHostedZoneAttributes(this, 'MyZone', {
  zoneName: 'example.com',
  hostedZoneId: 'Z0JJZC49E0EPZ',
```

Amazon Route53 Construct Library

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CloudFormation - stack - aws-route53 module - AWS

docs.aws.amazon.com/cdkapi/latest/docs/aws-route53-readme.html

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Overview

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to add a private hosted zone, use `PrivateHostedZone`. Note that `enableDnsSupport` and `enableDnsHostnames` must have been enabled for the VPC you're configuring for private hosted zones.

```
import * as ec2 from '@aws-cdk/aws-ec2';
import * as route53 from '@aws-cdk/aws-route53';

const vpc = new ec2.Vpc(this, 'VPC');

const zone = new route53.PrivateHostedZone(this, 'HostedZone', {
  zoneName: 'fully.qualified.domain.com',
  vpc // At least one VPC has to be added to a Private Hosted Zone
});
```

(Example not in your language? Click here.)

Additional VPCs can be added with `zone.addVpc()`.

### Adding Records

To add a TXT record to your zone:

```
import * as route53 from '@aws-cdk/aws-route53';

new route53.TxtRecord(this, 'TXTRecord', {
  zone: myZone,
  recordName: '_foo', // If the name ends with a ".", it will be used as-is.
  // If it ends with a "." followed by the zone name, a trailing
  // off-barrier, a "." the zone name, and a trailing "." will be
  // defaults to the host of the specified.
  // will be quoted for you, and will be escaped automatically.
  values: [
    'Bar!',
```

Amazon Route53 Construct Library

Adding Records

Imports

Not Darko

Darko

35:22 / 1:28:42

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## Splitting your CDK stack into multiple parts to reduce blast radius



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