

Image Number: 1

Page Number: 26

A screenshot of the AWS Management Console. The top navigation bar shows 'AWS Services' and the URL 'https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1#'. A search bar contains the text 'IAM'. On the left, a sidebar lists 'Services 5' including 'Features 15', 'Blogs 1,312', 'Documentation 105,171', 'Knowledge Articles 30', 'Events 5', and 'Marketplace 324'. The main content area is titled 'Search results for "IAM"' and shows a list with 'See all 5 results &gt;'. The first item is 'IAM Manage access to AWS resources', followed by 'Resource Access Manager Share AWS resources with other accounts or AWS Organizations', and 'Amazon VPC IP Address Manager Managed IP address management service'.

The image shows the AWS Management Console with the IAM (Identity and Access Management) service selected. The IAM service allows for managing access to AWS resources.

Confidence Score: 8

Metadata {"prompt\_tokens": 2096, "completion\_tokens": 53, "total\_tokens": 2149}

---



Image Number: 2

Page Number: 17

The image shows a QR code that can be scanned to download a free PDF version of the book 'AWS CDK in Practice'.

Confidence Score: 9

Metadata {"prompt\_tokens": 791, "completion\_tokens": 51, "total\_tokens": 842}

---

Image Number: 3

Page Number: 26

The image shows the AWS IAM console, with the 'Users' section selected. The user's name is displayed at the top of the page.

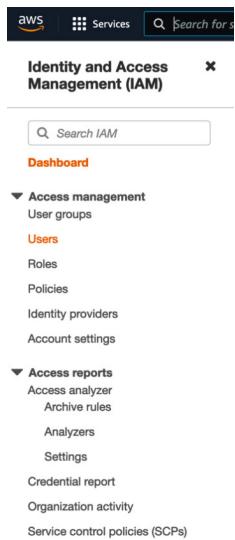


```
mavdi@Ms-MacBook-Pro ~ % aws --version
aws-cli/2.7.4 Python/3.9.11 Darwin/21.4.0 exe/x86_64 prompt/off
```

Confidence Score: 8

Metadata {"prompt\_tokens": 1524, "completion\_tokens": 52, "total\_tokens": 1576}

---



The screenshot shows the AWS IAM console. At the top, there is a navigation bar with the AWS logo, a 'Services' dropdown, and a search bar. Below the navigation bar, the title 'Identity and Access Management (IAM)' is displayed. On the left side, there is a sidebar with several menu items: 'Dashboard' (which is currently selected and highlighted in orange), 'Access management' (User groups, Users, Roles, Policies, Identity providers, Account settings), 'Access reports' (Access analyzer, Archive rules, Analyzers, Settings), 'Credential report', 'Organization activity', and 'Service control policies (SCPs)'. The main content area of the dashboard is currently empty, showing a light gray background.

Image Number: 4

Page Number: 27

The image shows the AWS Identity and Access Management (IAM) console, which is a web-based interface for managing AWS resources and security. The console displays various options for managing access, including user groups, users, roles, policies, and identity providers.

Confidence Score: 9

Metadata {"prompt\_tokens": 1626, "completion\_tokens": 73, "total\_tokens": 1699}

---



Image Number: 5

Page Number: 1

The image shows a book cover with the title 'AWS CDK in Practice' and the authors 'Mark Avdi' and 'Leo Lam'. The cover has a background image of abstract geometric shapes and patterns in shades of blue and black.

Confidence Score: 9

Metadata {"prompt\_tokens": 1887, "completion\_tokens": 76, "total\_tokens": 1963}

---

```
mavdi@Ms-MacBook-Pro chapter-1-introduction-to-iac-and-aws-cdk % aws configure list --profile cdk
[{"Name": "profile", "Value": "cdk", "Type": "profile"}, {"Name": "access_key", "Value": "REDACTED", "Type": "shared-credentials-file"}, {"Name": "secret_key", "Value": "REDACTED", "Type": "shared-credentials-file"}, {"Name": "region", "Value": "us-east-1", "Type": "config-file"}]
```

Image Number: 6

Page Number: 29

The image shows the output of the AWS CLI command 'aws configure list --profile cdk', which displays the configuration details for the AWS profile named 'cdk'.

Confidence Score: 9

Metadata {"prompt\_tokens": 1909, "completion\_tokens": 57, "total\_tokens": 1966}

---



Image Number: 7

Page Number: 27

The image shows the AWS Management Console with various tabs, including Permissions, Groups (1), Tags, Security credentials, and Access Advisor. The Permissions tab is selected, and an AdministratorAccess policy is shown, which is an AWS managed policy from the Admins group.

Confidence Score: 8

Metadata {"prompt\_tokens": 1676, "completion\_tokens": 80, "total\_tokens": 1756}

---

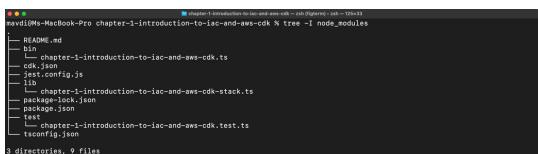


Image Number: 8

Page Number: 31

The image shows the directory structure of a CDK (AWS Cloud Development Kit) application, including files like README.md, bin, cdk.json, jest.config.js, lib, package-lock.json, package.json, test, and tsconfig.json.

Confidence Score: 9

Metadata {"prompt\_tokens": 1984, "completion\_tokens": 79, "total\_tokens": 2063}

---

Image Number: 9

Page Number: 30

```
David@Macs-MacBook-Pro awx-cdk>cdk -h
Usage: cdk -a <cdk-app> COMMAND

Commands:
  cdk list [STACKS...]           Lists all stacks in the app          [aliases: ls]
  cdk synthesize [STACKS...]     Synthesizes the CloudFormation template for this stack [aliases: synth]
  cdk bootstrap [ENVIRONMENTS...] Deploys the CDK toolkit stack into an AWS environment
  cdk deploy [STACKS...]          Deploys the stack(s) named STACKS into your AWS account
  cdk import [STACK]              Import existing resource(s) into the given STACK
  cdk watch [STACKS...]          Start for "deploy --watch"
  cdk destroy [STACKS...]        Destroy the stack(s) named STACKS
  cdk diff [STACKS...]           Compares the CloudFormation template of the deployed stack or a local template file, and returns status 1 if any difference is found
  cdk metadata [STACK]           Returns the CloudFormation metadata for this stack
  cdk acknowledge [ID]           Acknowledge a notice so that it does not show up anymore [aliases: ask]
  cdk notices                   Returns a list of relevant notices
  cdk init [TEMPLATE]           Create a new, empty CDK project from a template.
  cdk context                   Manage cached context values
  cdk docs                      Open the reference documentation in a browser [aliases: doc]
  cdk doctor                    Check your set-up for potential problems
Options:
  -a <app>                     REQUIRED: command-line for executing your app or a cloud assembly directory (e.g. "node bin/my-app.js")
  -h                            Help
```

Confidence Score: 9

Metadata {"prompt\_tokens": 2397, "completion\_tokens": 91, "total\_tokens": 2488}

---

```
David@Macs-MacBook-Pro chapter-1-introduction-to-iac-and-aws-cdk> zsh (fzf-term) • node - 107x47
→ Synthesis time: 2.78s
This deployment will make potentially sensitive changes according to your current security approval level (requireApprovalBroadening).
Please confirm you intend to make the following modifications:
IAM Statement Changes


| Resource                                  | Effect | Action                                    | Principal                               | Condition |
|-------------------------------------------|--------|-------------------------------------------|-----------------------------------------|-----------|
| + \$MyWebServer/TaskDef /ExecutionRoleArn | Allow  | sts:AssumeRole                            | Service:ecs-tasks.amazonaws.com         |           |
| + \$MyWebServer/TaskDef /TaskRoleArn      | Allow  | sts:AssumeRole                            | Service:ecs-tasks.amazonaws.com         |           |
| + \$MyWebServer/TaskDef /web/LogGroupArn  | Allow  | logs:CreateLogStream<br>logs:PutLogEvents | AWS:\$MyWebServer/TaskDef/ExecutionRole |           |


Security Group Changes


| Group                                | Dir | Protocol   | Peer                                    |
|--------------------------------------|-----|------------|-----------------------------------------|
| + \$MyWebServer/LB/SecurityGroup.Gro | In  | TCP 80     | Everyone (IPv4)                         |
| + \$MyWebServer/LB/SecurityGroup.Gro | Out | TCP 80     | \$MyWebServer/Service/SecurityGroup.Gro |
| + \$MyWebServer/Service/SecurityGrou | In  | TCP 80     | \$MyWebServer/LB/SecurityGroup.Gro      |
| + \$MyWebServer/Service/SecurityGrou | Out | Everything | Everyone (IPv4)                         |



NOTE: There may be security-related changes not in this list. See https://github.com/aws/aws-cdk/issues/129



Do you wish to deploy these changes (y/n)? █


```

Image Number: 10

Page Number: 34

A terminal window showing the output of an AWS CDK deployment for a containerized web application, including the CloudFormation stack output links.

Confidence Score: 9

Metadata {"prompt\_tokens": 2817, "completion\_tokens": 49, "total\_tokens": 2866}

---

```
Outputs:
ChapterIntroductionToIacAndAwsCdkStack.MyWebServerLoadBalancerDNSD1AFC081 = Chapt-MyWeb-18RT1BQF3YPLM-9526
388e9.us-east-1.elb.amazonaws.com
ChapterIntroductionToIacAndAwsCdkStack.MyWebServerServiceURLB0ED50F6 = http://Chapt-MyWeb-18RT1BQF3YPLM-95
26.us-east-1.elb.amazonaws.com
Stack ARN:
arn:aws:cloudformation:us-east-1:831551740863:stack/ChapterIntroductionToIacAndAwsCdkStack/bc928dd8-e105-1
1ec-90c0-0a90d90f56d03
-> Total time: 271.42s
```

Image Number: 11

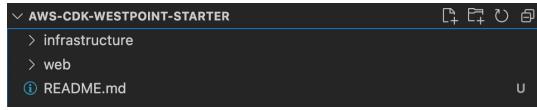
Page Number: 35

The image shows the output of the AWS CDK (Cloud Development Kit) deployment process. It displays various AWS resources that are being created, including an Elastic Container Service (ECS) server, a loadbalancer, and a DNS record. The output also includes a link to the newly deployed ECS server.

Confidence Score: 9

Metadata {"prompt\_tokens": 1862, "completion\_tokens": 85, "total\_tokens": 1947}

---



```
AWS-CDK-WESTPOINT-STARTER
  > infrastructure
  > web
  README.md
```

Image Number: 12

Page Number: 39

The image shows the directory structure of a CDK project, with a main 'infrastructure' directory and a 'web' directory, which indicates a separation of the infrastructure and web application code.

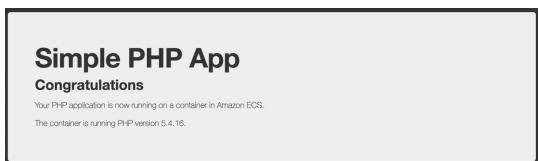
Confidence Score: 9

Metadata {"prompt\_tokens": 2072, "completion\_tokens": 61, "total\_tokens": 2133}

---

Image Number: 13

Page Number: 35



The image displays text stating 'Simple PHP App' and providing information about a PHP application running on Amazon ECS, including the PHP version and the congratulatory message.

Confidence Score: 10

Metadata {"prompt\_tokens": 1994, "completion\_tokens": 56, "total\_tokens": 2050}

---

Image Number: 14

Page Number: 41

A screenshot of a terminal window showing the output of an AWS CDK bootstrap command. The text includes details about regions, parameters, and rules, along with a note about the CDK bootstrap stack version required.

The image appears to show a terminal window with text displaying information about AWS CDK constructs, including different levels (L1, L2, L3) of constructs and their descriptions. The text also mentions the concept of a CDK app, stacks, and CloudFormation templates.

Confidence Score: 8

Metadata {"prompt\_tokens": 2973, "completion\_tokens": 81, "total\_tokens": 3054}

---

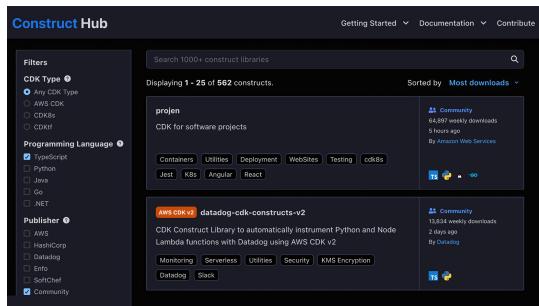


Image Number: 15

Page Number: 46

The Construct Hub website, displaying a list of constructs for software projects including Datadog, Slack, and others. The page shows community-driven constructs that can be used to quickly set up complex infrastructure in AWS.

Confidence Score: 9

Metadata {"prompt\_tokens": 2702, "completion\_tokens": 68, "total\_tokens": 2770}

---

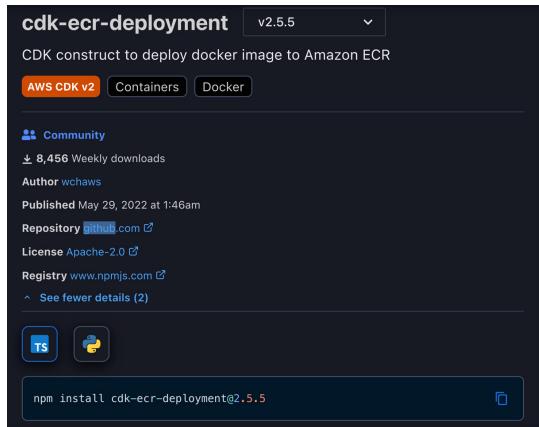


Image Number: 16

Page Number: 47

The image shows a screenshot of the AWS CDK (Cloud Development Kit) deployment tool. The screenshot shows information about the tool, including version, details about the CDK construct, and installation instructions.

Confidence Score: 9

Metadata {"prompt\_tokens": 2578, "completion\_tokens": 61, "total\_tokens": 2639}

---

Image Number: 17

Page Number: 52

The image shows the terminal output of the 'yarn dev' command, which is running the infrastructure portion of the CDK application. The output indicates that the application is using TypeScript version 3.9.10 and the ts-node version 10.8.2. It also shows that the application is listening on port 3001.

```
yarn dev
yarn run v1.22.19
$ tsnd index.ts
[INFO] 17:32:40 ts-node-dev ver. 2.0.0 (using ts-node ver. 10.8.2, typescript ver. 3.9.10)
API listening on port 3001
```

Confidence Score: 9

Metadata {"prompt\_tokens": 1302, "completion\_tokens": 93, "total\_tokens": 1395}

---

```
macid@MacBook-Pro ~ % yarn build
yarn run v1.22.17
$ react-scripts build
Creating an optimized production build...
Compiled successfully.

File sizes after gzip:
 69.59 KB  build/static/js/main.b8e612d7.js

The project was built assuming it is hosted at /.
You can control this with the homepage field in your package.json.
The build folder is ready to be deployed.
You may serve it with a static server.

  yarn global add serve
  serve -s build

Find out more about deployment here:
  https://cra.link/deployment
� Done in 3.38s.
```

Image Number: 18

Page Number: 51

The terminal output shows the result of running the 'yarn build' command, which creates a 'build' directory and places the compiled React assets within it.

Confidence Score: 8

Metadata {"prompt\_tokens": 2862, "completion\_tokens": 54, "total\_tokens": 2916}

---

```
#1 [internal] load build definition from Dockerfile
#1 sha256:98496fbeb171997e1bd9461033b4243774839768a998b2d16de1c8c80e02a77cf
#1 transferring dockerfile: 163B done
#1 DONE 0.0s

#2 [internal] load .dockerrcignore
#2 sha256:b87714487970dd9e72bc676f54a8ef9c878aa598abc10a43586c1cd38719732
#2 transferring context: 2B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/library/node:lts
#3 sha256:2646f34a408a79d67d8ec4aee5fbe1e86dbb0088a0daa43d9ff3fb7376c1
#3 DONE 1.8s

#4 [1/4] FROM docker.io/library/node:lts@sha256:a13d2d2a2ec7f0dae18a52ca4d38b592e45
#4 sha256:23670c43de3ef2d47c67029dd3b113d64da0aad3ce46b21a6552551a179f29d0
#4 DONE 0.0s

#5 [internal] load build context
#5 sha256:944cb0084c22d9328b46217a34e1b97008d464e77e890b7c980b660fe2c2b
#5 transferring context: 1.98kB 4.4s
#5 transferring context: 77.63kB 4.9s done
#5 DONE 5.0s
```

Image Number: 19

Page Number: 53

The image shows the output of a command-line interface, including information about loading build definitions from a Dockerfile, transferring context, and loading metadata for a Docker.io/library/node:lts Docker image.

Confidence Score: 9

Metadata {"prompt\_tokens": 2724, "completion\_tokens": 66, "total\_tokens": 2790}

---

```
Outputs:
Chapter3Stack.LoadBalancerDNS = Chapter3StackLoadBalancerDNS
```

Image Number: 20

Page Number: 54

The image shows a terminal output with various information related to a CDK (Cloud Development Kit) deployment. It includes a section titled 'Outputs' that displays information about the 'Chapter3Stack.LoadBalancerDNS' output, which appears to be a URL for a deployment made using CDK.

Confidence Score: 9

Metadata {"prompt\_tokens": 1177, "completion\_tokens": 87, "total\_tokens": 1264}

---

Image Number: 21

Page Number: 54

An image showing the output of a CloudDevelopmentKit (CDK) application deployed to Amazon Web Services (AWS). The image displays the API URL, frontend URL, and a successful response from the frontend application.



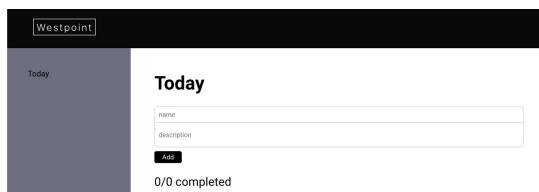
Confidence Score: 9

Metadata {"prompt\_tokens": 1189, "completion\_tokens": 65, "total\_tokens": 1254}

---

Image Number: 22

Page Number: 54



Confidence Score: 9

Metadata {"prompt\_tokens": 1749, "completion\_tokens": 71, "total\_tokens": 1820}

---

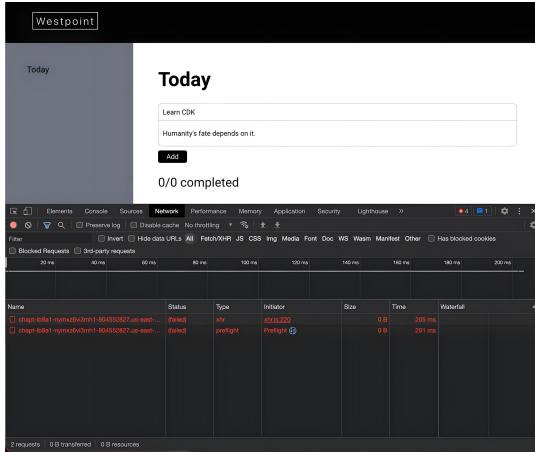


Image Number: 23

Page Number: 55

The image shows the CDK (Cloud Development Kit) console in a web browser, displaying information about a web application deployment. The console shows various metrics and configuration details related to the application's infrastructure, including network, performance, and security settings.

Confidence Score: 9

Metadata {"prompt\_tokens": 2782, "completion\_tokens": 70, "total\_tokens": 2852}

---

The screenshot shows a todo list application. At the top, there's a header with 'Westpoint' and a 'Today' section. Below it is a 'TODO' card with a 'Description' input field and an 'Add' button. The main area shows a table with one row: '0/1 completed'. The table has columns for 'Todo' and 'Description'. There's a checkbox next to 'Todo' and an 'Edit/Delete' button next to 'Description'.

Image Number: 24

Page Number: 57

The image shows a todo list app interface. There is a text input field where the user can add a new todo item, and a checkbox that can be used to mark a todo item as completed. The interface also displays the count of completed todos.

Confidence Score: 8

Metadata {"prompt\_tokens": 2143, "completion\_tokens": 71, "total\_tokens": 2214}

---

Image Number: 25

Page Number: 58

Completed Read capacity units consumed: 2					
Items returned (1)					
<a href="#">Actions</a> <a href="#">Create item</a>					
partition_key	sort_key	completed	description	name	
todo	0178e257-96dd-4f4a...	false	Humanity's fa...	Learn CDK	

A screenshot of a dashboard showing a list of items returned, where one item has the name 'Learn CDK' and a description of 'Humanity's favorite future feature'.

Confidence Score: 9

Metadata {"prompt\_tokens": 1937, "completion\_tokens": 59, "total\_tokens": 1996}

---

Image Number: 26

Page Number: 65

Choose a domain name

.com - \$12.00 [Check](#)

To register a domain name, start by finding one that's available. Enter the first part of the name (such as example.com), choose an extension, click Check. We'll tell you whether it's available and whether you can get it with other extensions. [Learn more](#).

The image shows the 'Choose a domain name' section of a web application. It has a text input field for entering a domain name, a dropdown menu with various domain extensions like '.com' at \$12, and a 'Check' button.

Confidence Score: 9

Metadata {"prompt\_tokens": 1893, "completion\_tokens": 73, "total\_tokens": 1966}

---

Image Number: 27

Page Number: 66

A screenshot of an AWS console showing the Route 53 domain registration page with a search for the domain 'cdkbook.click' and the option to add it to the cart and proceed to checkout.

Domain Name	Status	Price /1 Year	Action
cdkbook.click	✓ Available	\$3.00	Add to cart

Confidence Score: 8

Metadata {"prompt\_tokens": 1993, "completion\_tokens": 64, "total\_tokens": 2057}

---

Image Number: 28

Page Number: 66

The image shows a screenshot of the AWS Route 53 domain registration dashboard. It displays the process of registering a new domain name, specifically 'cdkbook.click'.

```
1 {  
2   "domain_name": "cdkbook.click",  
3   "backend_subdomain": "backend-cdk-book",  
4   "frontend_subdomain": "frontend-cdk-book"  
5 }  
6
```

Confidence Score: 9

Metadata {"prompt\_tokens": 1802, "completion\_tokens": 59, "total\_tokens": 1861}

---

Image Number: 29

Page Number: 67

The image shows a table with information about a domain, including its status, renewal status, type, CNAME name, and CNAME value. The domain is 'cdkbook.click' and it is in the 'Pending validation' status.

Domain	Status	Renewal status	Type	CNAME name	CNAME value
cdkbook.click	Pending validation	-	CNAME	_22bd52befef3d4e6de8848a53037 9327d.cdkbook.click	_9f0198372191c4 2bf1f3.xawrpwn.validations.aws
*.cdkbook.click	Pending validation	-	CNAME	_22bd52befef3d4e6de8848a53037 9327d.cdkbook.click	_9f0198372191c4 2bf1f3.xawrpwn.validations.aws

Confidence Score: 9

Metadata {"prompt\_tokens": 2410, "completion\_tokens": 76, "total\_tokens": 2486}

---

Image Number: 30

Page Number: 68

The image shows a table displaying details about a domain, such as its status, renewal status, type, CNAME name, and CNAME value.

Domain	Status	Renewal status	Type	CNAME name	CNAME value
cdkbook.click	Success	-	CNAME	_22bd52befef3d4e6de8848a53037 9327d.cdkbook.click	_9f0198372191c4 2bf1f3.xawrpwn.validations.aws
*.cdkbook.click	Success	-	CNAME	_22bd52befef3d4e6de8848a53037 9327d.cdkbook.click	_9f0198372191c4 2bf1f3.xawrpwn.validations.aws

Confidence Score: 10

Metadata {"prompt\_tokens": 2034, "completion\_tokens": 53, "total\_tokens": 2087}

---

Chapter4Stack				<a href="#">Delete</a>	<a href="#">Update</a>	<a href="#">Stack actions ▾</a>	<a href="#">Create stack ▾</a>
Stack info		<a href="#">Events</a>	<a href="#">Resources</a>	<a href="#">Outputs</a>	<a href="#">Parameters</a>	<a href="#">Template</a>	<a href="#">Change sets</a>
<b>Events (100+)</b>							
<input type="text"/> Search events							
Timestamp	Logical ID	Status	Status reason				
2022-08-15 09:02:29 UTC-0300	Chapter4Stack	<span>CREATE_COMPL</span> ETE	-				
2022-08-15 09:02:23 UTC-0300	AwsCustomResource5 7FD4B885	<span>CREATE_COMPL</span> ETE	-				
2022-08-15 09:02:23 UTC-0300	AwsCustomResource5 7FD4B885	<span>CREATE_IN_PROGRESS</span> GRESS	Resource creation initiated				
2022-08-15 09:00:28 UTC-0300	AwsCustomResource5 7FD4B885	<span>CREATE_IN_PROGRESS</span> GRESS	-				
2022-08-15 09:00:24 UTC-0300	AwsCustomResourceCustomResourcePolicy C0817817	<span>CREATE_COMPL</span> ETE	-				
2022-08-15 08:59:56 UTC-0300	MySQLCredentialAttachment638E3417	<span>CREATE_COMPL</span> ETE	-				
2022-08-15 08:59:56 UTC-0300	MySQLCredentialAttachment638E3417	<span>CREATE_IN_PROGRESS</span> GRESS	Resource creation initiated				
2022-08-15 08:59:55 UTC-0300	AwsCustomResourceCustomResourcePolicy C0817817	<span>CREATE_IN_PROGRESS</span> GRESS	Resource creation initiated				

Image Number: 31

Page Number: 69

The image shows a user interface for managing 'Chapter4Stack', including sections for 'Events', 'Resources', 'Outputs', 'Parameters', 'Template', and 'Change sets'. The 'Events' section displays a table with details of various events, including timestamp, logical ID, status, and status reason.

Confidence Score: 9

Metadata {"prompt\_tokens": 2850, "completion\_tokens": 92, "total\_tokens": 2942}

---

Westpoint

Today

<input type="text"/> name	<input type="text"/> description
<a href="#">Add</a>	
1/0 completed	
<input type="checkbox"/> First todo That's a todo for demonstration purposes	

Image Number: 32

Page Number: 69

The image shows a web application dashboard with a list of 'todo' items. The main content area displays a form with fields for 'name', 'description', and a checkbox to mark the todo as 'completed'. There is also a list of existing todo items below the form.

Confidence Score: 9

Metadata {"prompt\_tokens": 1970, "completion\_tokens": 81, "total\_tokens": 2051}

---

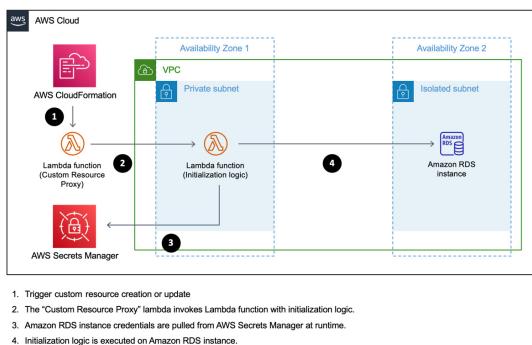


Image Number: 33

Page Number: 72

The image shows an architectural diagram of how the AWS CDK Resource Initializer works. It depicts an AWS RDS instance, a custom Lambda function, and the flow of data and dependencies between them.

Confidence Score: 9

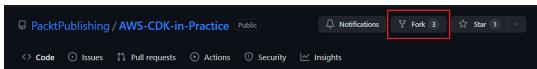
Metadata {"prompt\_tokens": 2752, "completion\_tokens": 62, "total\_tokens": 2814}

---

Image Number: 34

Page Number: 84

The image shows the GitHub Settings page, with options for generating a new personal access token. The steps to generate the token are described in the preceding text.



Confidence Score: 9

Metadata {"prompt\_tokens": 1894, "completion\_tokens": 52, "total\_tokens": 1946}

---

Image Number: 35

Page Number: 75

The image shows a code snippet of an AWS Lambda function written in JavaScript. The function is used to initialize a MySQL database by running a SQL script. The code includes details on how the function connects to the database using secrets stored in AWS Secrets Manager, reads the SQL script, and executes it. The function returns a response indicating whether the database initialization was successful or not.

```
outputs:  
Chapter4Stack.BackendURL = chapter4-1b-1113296104.us-east-1.elb.amazonaws.com  
Chapter4Stack.FrontendURL = chapter-4-web-bucket-s3.amazonaws.com  
Chapter4Stack.RdsDescribeResponse = {"status":"OK","region": "us-east-1","affectedRows":0,"fieldsCount":0,"recordsCount":0,"records":[]}, {"status": "OK", "region": "us-east-1", "affectedRows": 1, "fieldsCount": 1, "recordsCount": 1, "records": [{"id": 1, "name": "mavdi", "email": "mavdi@amazonaws.com", "password": "password123", "is_superuser": true, "is_active": true, "is_email_verified": true, "last_login": null, "date_joined": "2023-08-01T12:00:00Z"}]}, {"status": "OK", "region": "us-east-1", "affectedRows": 10, "fieldsCount": 1, "recordsCount": 10, "records": [{"id": 1, "name": "mavdi", "email": "mavdi@amazonaws.com", "password": "password123", "is_superuser": true, "is_active": true, "is_email_verified": true, "last_login": null, "date_joined": "2023-08-01T12:00:00Z"}]}  
Stack ARN: arn:aws:cloudformation:us-east-1:153155174086:stack/Chapter4Stack/1a0113e0-1c90-11ed-8ed1-12970fa947a  
+ Total time: 888.76s
```

Confidence Score: 9

Metadata {"prompt\_tokens": 2118, "completion\_tokens": 97, "total\_tokens": 2215}

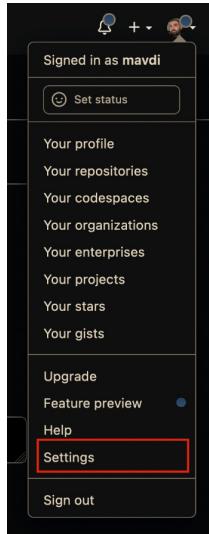


Image Number: 36

Page Number: 85

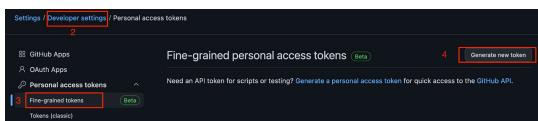
The image shows the settings menu in a web application, with various options such as 'Your profile', 'Your repositories', 'Your codespaces', and 'Your organizations'. The 'Settings' option is highlighted at the bottom of the menu.

Confidence Score: 9

Metadata {"prompt\_tokens": 1767, "completion\_tokens": 75, "total\_tokens": 1842}

Image Number: 37

Page Number: 85



Confidence Score: 9

Metadata {"prompt\_tokens": 2010, "completion\_tokens": 78, "total\_tokens": 2088}

---

Image Number: 38

Page Number: 87

The image shows the URL 'app.slack.com/apps-manage/integrations/installed' displayed in a web browser. The page appears to be part of a configuration or management interface for Slack integrations.



Confidence Score: 8

Metadata {"prompt\_tokens": 1331, "completion\_tokens": 67, "total\_tokens": 1398}

---

Image Number: 39

Page Number: 87

The image shows the Slack app directory. The 'AWS Chatbot' app is displayed in the search results, with details about the app such as its description, access type, and who installed it.

Confidence Score: 9

Metadata {"prompt\_tokens": 1947, "completion\_tokens": 64, "total\_tokens": 2011}

---

Image Number: 40

Page Number: 86  
The image shows the 'Preferences' menu in the GitHub interface. The menu includes options for 'Settings & administration', 'Tools', 'Sign in to Testing Workspace on...', and 'Sign out of Testing Workspace'. The 'Settings & administration' option is highlighted, showing a submenu with options such as 'Workspace settings', 'Customize Testing Workspace', 'Edit workspace details', 'Administration', 'Manage members', and 'Manage apps'.

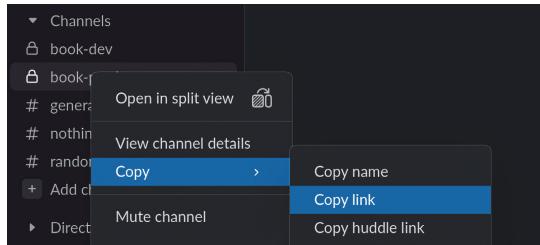
Confidence Score: 9

Metadata {"prompt\_tokens": 2376, "completion\_tokens": 129, "total\_tokens": 2505}

---

Image Number: 41

Page Number: 88



The image shows the Slack web page with the AWS Chatbot app selected. It displays various options for configuring the Slack integration, including copying the channel name, link, and huddle link.

Confidence Score: 9

Metadata {"prompt\_tokens": 2310, "completion\_tokens": 63, "total\_tokens": 2373}

---

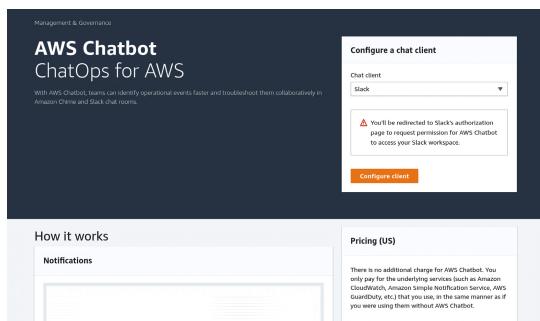


Image Number: 42

Page Number: 88

The image shows the AWS Chatbot configuration page. It allows users to configure a chat client, with Slack being the only option shown. There is a warning message indicating that the user will be redirected to Slack's authorization page to request permission for AWS Chatbot to access their Slack workspace.

Confidence Score: 9

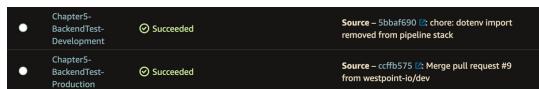
Metadata {"prompt\_tokens": 2784, "completion\_tokens": 84, "total\_tokens": 2868}

---

Image Number: 43

Page Number: 91

The image shows a successful CI/CD deployment with two pipeline stages - Chapter5-Development and Chapter5-Production, both showing 'Succeeded' status.



Confidence Score: 9

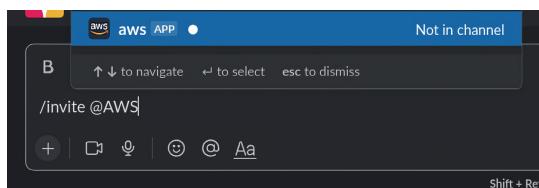
Metadata {"prompt\_tokens": 2125, "completion\_tokens": 54, "total\_tokens": 2179}

---

Image Number: 44

Page Number: 89

The image shows the AWS App interface with various options such as 'to navigate', 'to select', and 'esc to dismiss'. The interface also displays the '/invite @AWS' command which can be used to invite the AWS Chatbot to Slack channels.



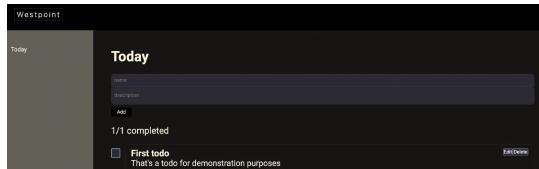
Confidence Score: 9

Metadata {"prompt\_tokens": 2283, "completion\_tokens": 78, "total\_tokens": 2361}

---

Image Number: 45

Page Number: 92



The image shows a web application dashboard with various sections and information, including a 'Today' section with an 'Add' button, a '1/1 completed' progress indicator, and a 'First todo' task with the description 'That's a todo for demonstration purposes'.

Confidence Score: 9

Metadata {"prompt\_tokens": 2788, "completion\_tokens": 82, "total\_tokens": 2870}

---

Stack name	Status	Created time
Chapter5Stack-Production	CREATE_COMPLETE	2022-10-25 11:17:16 UTC-0300
Chapter5PipelineStack	CREATE_COMPLETE	2022-10-25 11:07:17 UTC-0300
Chapter5Stack-Development	CREATE_COMPLETE	2022-10-23 17:51:57 UTC-0300

Image Number: 46

Page Number: 92

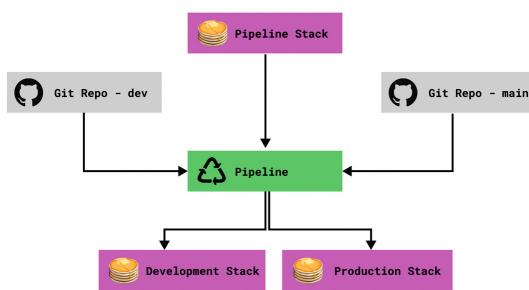
The image displays a list of five CloudFormation stacks in the AWS console. The stacks are named 'Chapter5Stack-', 'Chapter5PipelineStack', and 'Chapter5-Development' and 'Chapter5-Production'. The stacks have various status indicators such as 'CREATE\_COMPLETE'.

Confidence Score: 10

Metadata {"prompt\_tokens": 2176, "completion\_tokens": 92, "total\_tokens": 2268}

---

Image Number: 47



Page Number: 94

The image shows a diagram depicting a Git repository with a 'dev' branch and a 'main' branch, connected to a 'Pipeline' component in the middle. The 'Pipeline' component has two downstream components labeled 'Development Stack' and 'Production Stack', indicating that the pipeline pushes changes to both development and production environments.

Confidence Score: 9

Metadata {"prompt\_tokens": 2463, "completion\_tokens": 93, "total\_tokens": 2556}

---

Image Number: 48

Page Number: 108

```
mavid@Ms-MacBook-Pro-3 infrastructure % yarn test
yarn run v1.22.19
$ yarn build && jest
$ tsc
PASS  test/chapter-6-stack.test.js
  Testing Chapter 6 code.
    ✓ The stack has a ECS cluster configured in the right way. (155 ms)
    ✓ The stack has a RDS instance configured in the right way. (85 ms)
    ✓ The stack has a VPC configured in the right way. (82 ms)
    ✓ Matches the snapshot. (84 ms)

Test Suites: 1 passed, 1 total
Tests:       4 passed, 4 total
Snapshots:  1 passed, 1 total
Time:        1.157 s, estimated 2 s
ran all test suites.
+ Done in 5.44s.
```

The image shows the output of running the test suite for the 'Chapter 6 Stack' of an AWS CDK application. The test results indicate that all 4 tests have passed, including tests to verify that the ECS cluster, RDS instance, and VPC are configured correctly, and that the snapshot matches expectations.

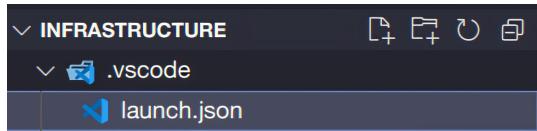
Confidence Score: 10

Metadata {"prompt\_tokens": 2544, "completion\_tokens": 89, "total\_tokens": 2633}

---

Image Number: 49

Page Number: 116



The image shows the Visual Studio Code (VSCode) debugger panel, with a 'Debug CDK' button visible.

Confidence Score: 9

Metadata {"prompt\_tokens": 2132, "completion\_tokens": 47, "total\_tokens": 2179}

```
awsIOMG-MacBook-Pro-0 Infrastructure % yarn test
yarn run v1.22.19
$ yarn build && jest
+ test/chapter-6-stack.test.js
Testing Chapter 6 code
  ✓ The stack has a RDS instance configured in the right way. (93 ms)
  ✓ The stack has a VPC configured in the right way. (86 ms)
  ✕ Matches the snapshot. (9x ms)

  Testing Chapter 6 code -> Matches the snapshot.

expect(received).toMatchSnapshot()

Snapshot name: Testing Chapter 6 code. Matches the snapshot. 1'
+ Snapshot... 1
+ Received... 4

EQ -2591,11 +2591,14 EQ
  "TaskDefinition": {
    "RoleArn": "arn:aws:iam::123456789012:role/CDKDefaultRole",
    "PolicyDocument": {
      "Statement": [
        {
          "Action": "secretsmanager:GetSecretValue",
          "Resource": "arn:aws:secretsmanager:us-east-1:123456789012:secret:MySQLCredentialstestA71485AB",
          "Effect": "Allow"
        }
      ]
    },
    "Template": {
      "ContainerDefinitions": [
        {
          "Actions": [
            "secretsmanager:GetSecretValue",
            "secretsmanager:ListSecrets"
          ],
          "Image": "amazonlinux:2",
          "Memory": 512,
          "Name": "SecretsManagerTask"
        }
      ],
      "NetworkMode": "awsvpc"
    }
  }
  const template = Template.fromStack(chapter6Stack);
  expect(template.toJSON()).toMatchSnapshot();
}

at Object.toMatchSnapshot (test/chapter-6-stack.test.ts:236:31)

1 snapshot failed.
Snapshot Summary
1 snapshot failed from 1 test suite. Inspect your code changes or run `yarn test -u` to update them.

Test Suites: 1 failed, 1 total
Test Suites: 1 failed, 1 total
Snapshots: 1 failed, 1 total
Time: 1.207 s, estimated 2 s
All 1 test failed
error Command failed with exit code 1.
info Visit https://yarnpkg.com/en/docs/cli/run for documentation about this command.
awsIOMG-MacBook-Pro-0 Infrastructure %
```

Image Number: 50

Page Number: 114

The image shows the output of running a yarn test command in a terminal. The output includes details about a failed snapshot test, indicating that changes were made to the code that did not match the expected snapshot. The output also includes information about the test suite, including failed and passed tests, and a summary of the test results.

Confidence Score: 9

Metadata {"prompt\_tokens": 2716, "completion\_tokens": 86, "total\_tokens": 2802}

Image Number: 51

Page Number: 117

The image shows a Visual Studio Code window with a debugging configuration set up for an AWS CDK application. The configuration includes environment variables and arguments to launch the CDK application in debug mode. There is also a breakpoint set in the CDK code, indicating that the debugging process will pause the execution at that point to allow for further inspection.



```
12
13 if ([`ONLY_DEV`].includes(process.env.CDK_MODE || '')) {
14   new Chapter6Stack(app, `Chapter6Stack-${process.env.NODE_ENV || ''}`, {
15     env: { region: 'us-east-1', account: process.env.CDK_DEFAULT_ACCOUNT },
16   });
17 }
```

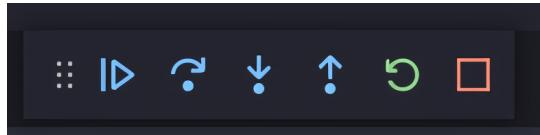
Confidence Score: 8

Metadata {"prompt\_tokens": 1454, "completion\_tokens": 90, "total\_tokens": 1544}

---

Image Number: 52

Page Number: 118



Confidence Score: 9

Metadata {"prompt\_tokens": 1264, "completion\_tokens": 59, "total\_tokens": 1323}

---

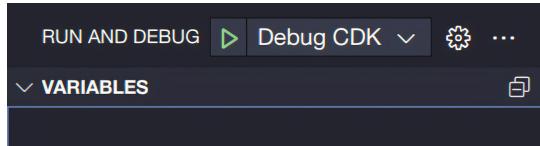


Image Number: 53

The image shows the Visual Studio Code (VSCode) debugging panel for an AWS CDK application. The panel displays various debugging controls such as 'Run and Debug', 'Debug CDK', and a dropdown menu to select the debugging mode. The 'Variables' section shows the variables being used in the application. The image also shows the debugger controls at the top of the screen, which allow the user to continue, restart, or end the debugging session.

Confidence Score: 9

Metadata {"prompt\_tokens": 1842, "completion\_tokens": 116, "total\_tokens": 1958}

---

```
● 36 this.vpc = new Vpc(this, `MyVPC-${process.env.NODE_ENV || ''}`, {
37   cidr: '10.0.0.0/16',
38   subnetConfiguration: [
39     {
40       cidrMask: 24,
41       name: 'ingress',
42       subnetType: SubnetType.PUBLIC,
43     },
44     {
45       cidrMask: 24,
46       name: 'compute',
47       subnetType: SubnetType.PRIVATE_WITH_NAT,
48     },
49     {
50       cidrMask: 28,
51       name: 'rds',
52       subnetType: SubnetType.PRIVATE_ISOLATED,
53     },
54   ],
55 });
```

Image Number: 54

Page Number: 119

The image shows multiple sections of code in an editor, with various variables and constructs defined. The code appears to be related to setting up a VPC (Virtual Private Cloud) and RDS (Relational Database Service) resources using the AWS CDK (Cloud Development Kit).

Confidence Score: 8

Metadata {"prompt\_tokens": 1226, "completion\_tokens": 79, "total\_tokens": 1305}

---

The image shows the Visual Studio Code interface with the 'Run and Debug' panel open. The 'Variables' section is selected, showing a tree view of local variables. The 'Local' node is expanded, displaying numerous entries such as '\_createBinding', '\_dirname', '\_filename', '\_importStar', '\_setModuleDefault', 'app', 'cdk', 'chapter\_6\_pipeline\_stack\_1', 'chapter\_6\_stack\_1', 'dotenv\_1', 'exports', 'module', 'require', and 'this'. A 'Global' node is also present. The 'Run and Debug' bar at the top includes options like 'Launch Program' and 'Breakpoints'.

Image Number: 55

Page Number: 118

The image shows the Visual Studio Code debugger interface. The interface displays the 'Run and Debug' panel with various variables and options for configuring the debugging environment. The image highlights breakpoints set within the CDK code, allowing the developer to pause execution and inspect variables during the debugging process.

Confidence Score: 9

Metadata {"prompt\_tokens": 2594, "completion\_tokens": 81, "total\_tokens": 2675}

---

The image shows a code editor window in VS Code. The code is related to setting up an AWS CDK application. It includes imports for 'RDS' and 'VPC'. A breakpoint is marked with a red dot on line 62. The code defines a constructor for a class named 'Rds' which takes 'this' and 'process.env.NODE\_ENV || '' as parameters, and creates a new 'RDS' instance with 'vpc: this.vpc'. Line numbers 61 through 65 are visible on the left.

Image Number: 56

Page Number: 119

The image shows a code editor window in VS Code with several lines of code. The code appears to be related to setting up an AWS CDK application and includes references to VPC and RDS constructs. The image also shows the debugging controls at the top of the screen and the debugger panel on the side, which displays variables and their values.

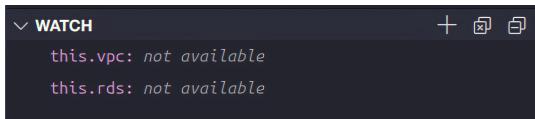
Confidence Score: 9

Metadata {"prompt\_tokens": 882, "completion\_tokens": 92, "total\_tokens": 974}

---

Image Number: 57

Page Number: 119

A screenshot of the Visual Studio Code interface focusing on the 'WATCH' panel. The title bar says 'WATCH'. Below it, there are two entries: 'this.vpc: not available' and 'this.rds: not available'. There are also standard VS Code window controls at the top right.

The image shows a Visual Studio Code debugging interface with variables and breakpoints set for debugging a CDK application. The variables 'this.vpc' and 'this.rds' are being watched, and the debugging controls are visible at the top of the screen.

Confidence Score: 9

Metadata {"prompt\_tokens": 1414, "completion\_tokens": 76, "total\_tokens": 1490}

---

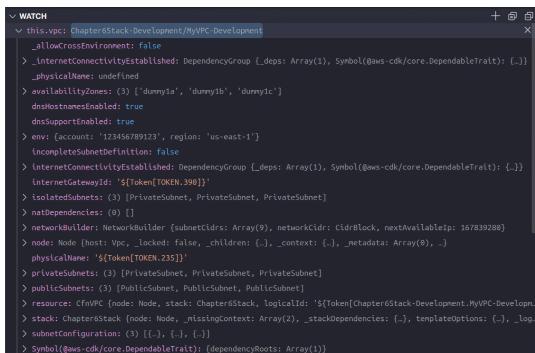
A screenshot of the Visual Studio Code interface focusing on the 'WATCH' panel. The title bar says 'WATCH'. The list is very long and includes variables like 'this.vpc', 'env', 'account', 'region', 'privateSubnets', 'publicSubnets', 'resources', 'stack', 'subnetConfiguration', and various network-related objects. The list continues down the page.

Image Number: 58

Page Number: 120

The image shows the Visual Studio Code debugger interface, with breakpoints set in the code and variables being watched during the debugging process.

Confidence Score: 10

Metadata {"prompt\_tokens": 2588, "completion\_tokens": 48, "total\_tokens": 2636}

---

The image shows the VSCode debugger window with several sections including Variables, which displays the variables and their values that can be examined during the debugging process.

```
Variables
  Local: Chapter6Stack
    cidr: '10.1.0.0/16'
    id: 'Chapter6Stack-Development'
    props: {env: ...}
    scope: <root>
    this: Chapter6Stack
  Closure
  Global
```

Image Number: 59

Page Number: 120

The image shows the VSCode debugger window with several sections including Variables, which displays the variables and their values that can be examined during the debugging process.

Confidence Score: 9

Metadata {"prompt\_tokens": 2415, "completion\_tokens": 52, "total\_tokens": 2467}

---

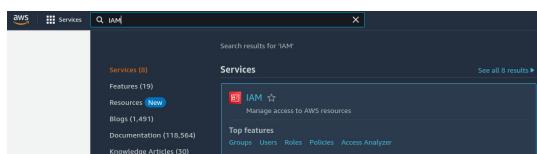


Image Number: 60

Page Number: 121

The image shows the AWS console search results for 'IAM', which displays the 'IAM' service and its top features including Groups, Users, Roles, Policies, and Access Analyzer.

Confidence Score: 10

Metadata {"prompt\_tokens": 1474, "completion\_tokens": 64, "total\_tokens": 1538}

---

Users (4) <a href="#">Info</a>		
An IAM user is an identity with long-term credentials that is used to interact with AWS services.		
<input type="text"/> Find users by username or access key		
<input type="checkbox"/>	User name	
<input type="checkbox"/>	[REDACTED]	None

Image Number: 61

Page Number: 122

A screenshot of the IAM console in the AWS Management Console, showing the Users section and an IAM user's details page.

Confidence Score: 9

Metadata {"prompt\_tokens": 1776, "completion\_tokens": 47, "total\_tokens": 1823}

---

Permissions	Groups	Tags	Security credentials	Access Advisor
Permissions policies (2)				
Permissions are defined by policies attached to the user directly or through groups.				
<input type="text"/> Find policies				
<input type="checkbox"/> Policy name <a href="#">AdministratorAccess</a>	<input type="checkbox"/> Type			<a href="#">Add permissions</a>
<input type="checkbox"/> <a href="#">AdministratorAccess</a>	AWS managed - job function			<a href="#">Add inline policy</a>
<input type="checkbox"/> <a href="#">JHMUserChangePassword</a>	AWS managed			
				<a href="#">Remove</a>

Image Number: 62

Page Number: 122

The image shows the AWS console screen with the IAM service selected, displaying the user permissions and policies associated with the current IAM user account. The screen shows how to add or remove permissions to the IAM user to deploy AWS CDK applications.

Confidence Score: 9

Metadata {"prompt\_tokens": 2100, "completion\_tokens": 71, "total\_tokens": 2171}

---

```
mavdi@Ms-MacBook-Pro-3 ~ % localstack
Usage: localstack [OPTIONS] COMMAND [ARGS]...
The LocalStack Command Line Interface (CLI)

Options:
--version      Show the version and exit.
--debug        Enable CLI debugging mode
--profile TEXT Set the configuration profile
--help         Show this message and exit.

Commands:
config  Inspect your LocalStack configuration
infra   Manipulate LocalStack infrastructure (legacy)
logs    Show the logs of the LocalStack container
ssh     Obtain a shell in the running LocalStack container
start   Start LocalStack
status  Print status information about the LocalStack runtime
stop    Stop the running LocalStack container
update  Update LocalStack components
wait   Wait on the LocalStack container to start
mavdi@Ms-MacBook-Pro-3 ~ %
```

Image Number: 63

Page Number: 151

The image shows the command line interface (CLI) of LocalStack, a tool used to simulate AWS services locally. The CLI displays various options and commands related to managing and using LocalStack, such as starting the LocalStack container, inspecting the configuration, and updating components.

Confidence Score: 9

Metadata {"prompt\_tokens": 1883, "completion\_tokens": 76, "total\_tokens": 1959}

---

```
> docker container ls
CONTAINER ID IMAGE COMMAND CREATED STATUS
PORTS NAMES
88c78c1ff30 localstack/localstack "docker-entrypoint.sh" 21 seconds ago Up 20 seconds
(healthy) 127.0.0.1:4510-4550->4510-4550/tcp, 127.0.0.1:4566->4566/tcp, 127.0.0.1:4571->4571
1/tcp, 127.0.0.1:12121->12121/tcp, 5678/tcp localstack_main
```

Image Number: 64

Page Number: 152

This image shows the output of the 'docker container ls' command, which lists the Docker containers currently running on the system. The output displays details about the containers, including their container ID, image, command, creation time, and status.

Confidence Score: 9

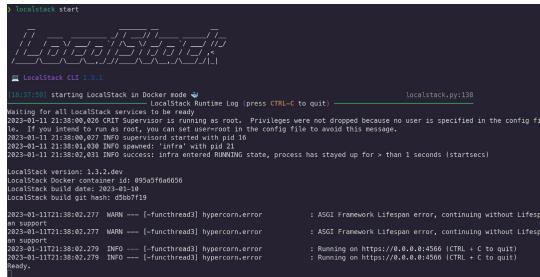
Metadata {"prompt\_tokens": 1496, "completion\_tokens": 70, "total\_tokens": 1566}

---

Image Number: 65

Page Number: 152

The image shows the command line output of starting the LocalStack service in Docker mode. The output includes information about the LocalStack version, Docker container ID, build date, and Git hash. It also shows the logs for various services being started, including INFO messages about the process entering the RUNNING state.



```
localstack start
localStack CLI 1.1.1
[11:13:00] starting LocalStack in Docker mode
[11:13:00] Runtime Log [press CTRL-C to quit] localstack.py:338
Waiting for all localstack services to be ready
2023-01-10 21:13:00,026 CRIT Supervisor is running as root... Privileges were not dropped because no user is specified in the config file. You can specify a user in the config file to avoid this message.
2023-01-11 21:13:00,027 INFO supervisor started with pid 16
2023-01-11 21:13:01,038 INFO spawned: 'lifera' with pid 21
2023-01-11 21:13:01,038 INFO success: lifera entered RUNNING state, process has stayed up for > than 1 seconds (startsecs)
localStack version: 1.1.2-dev
localStack Docker container id: 9b5d5f6a6056
localStack build date: 2023-01-10
localStack build git hash: d5b5f19
...
2023-01-11 21:13:02,277 WARN --- [-functhreads] hypercorn.error
: ASGI Framework Lifespan error, continuing without Lifespan support
2023-01-11 21:13:02,277 WARN --- [-functhreads] hypercorn.error
: ASGI Framework Lifespan error, continuing without Lifespan support
2023-01-11 21:13:02,279 INFO --- [-functhreads] hypercorn.error
: Running on https://0.0.0.0:4566 (CTRL + C to quit)
2023-01-11 21:13:02,279 INFO --- [-functhreads] hypercorn.error
: Running on https://0.0.0.0:4566 (CTRL + C to quit)
```

Confidence Score: 9

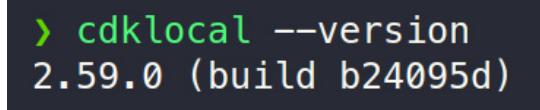
Metadata {"prompt\_tokens": 2568, "completion\_tokens": 82, "total\_tokens": 2650}

---

Image Number: 66

Page Number: 153

The image shows the output of the 'cdklocal --version' command, which displays the current version of the 'cdklocal' tool, which is '2.59.0 (build b24095d)'.



```
> cdklocal --version
2.59.0 (build b24095d)
```

Confidence Score: 10

Metadata {"prompt\_tokens": 1192, "completion\_tokens": 72, "total\_tokens": 1264}

---

Image Number: 67

Page Number: 154

The image shows a terminal window with the output of a command to deploy a CloudFormation stack called 'Chapter8Stack-Development' to a local development environment using CDKLocal. The output includes the deployment time, the stack ARN, the total time, and a message that the deployment was successful.

```
✓ Chapter8Stack-Development
+ Deployment time: 5.41s
Stack ARN:
arn:aws:cloudformation:us-east-1:000000000000:stack/Chapter8Stack-Development/da2092cb
+ Total time: 10.04s
Done in 11.51s.
```

Confidence Score: 9

Metadata {"prompt\_tokens": 2120, "completion\_tokens": 84, "total\_tokens": 2204}

---

Image Number: 68

Page Number: 156

The image shows the output of a terminal running the 'yarn dev' command to start a local development server. The terminal output indicates that the server is listening on port 3000 and is using ts-node-dev version 2.0.0 (using ts-node version 10.8.2, and TypeScript version 4.8.4).

```
> yarn dev
yarn run v1.22.19
$ tsnd src/index.ts
[INFO] 18:40:05 ts-node-dev ver. 2.0.0 (using ts-node ver. 10.8.2, typescript ver. 4.8.4)
Server is listening on port 3000
[]
```

Confidence Score: 9

Metadata {"prompt\_tokens": 2036, "completion\_tokens": 100, "total\_tokens": 2136}

---

Image Number: 69

Page Number: 156

The image shows a terminal window with a command prompt and text that appears to be a curl request to a local server called 'healthcheck' on port 3000. The text also includes some configuration variables like 'DYNAMODB\_ENDPOINT' and 'TABLE\_NAME' that suggest this is part of a serverless application setup.

```
> curl --request GET \
--url http://localhost:3000/healthcheck
"OK"%"
```

Confidence Score: 9

Metadata {"prompt\_tokens": 1740, "completion\_tokens": 92, "total\_tokens": 1832}

---

Image Number: 70

Page Number: 156

The image shows a terminal window with a curl command to make a POST request to a local server running on port 3000. The request includes a JSON payload with a 'todo' object containing properties such as 'todo\_name', 'todo\_description', and 'todo\_completed'.

```
> curl --request POST \
--url http://localhost:3000/ \
--header 'Content-Type: application/json' \
--data '{
  "todo": {
    "todo_name": "Test Item",
    "todo_description": "Test description",
    "todo_completed": true
  }
}', {
  "todo": {
    "id": "3c9800d1-fef7-4c46-b6b9-083a227628ef",
    "todo_completed": true,
    "todo_description": "Test description",
    "todo_name": "Test item"
  }
}'
```

Confidence Score: 9

Metadata {"prompt\_tokens": 2348, "completion\_tokens": 84, "total\_tokens": 2432}

---

Image Number: 71

Page Number: 157

The image shows some text in the terminal window, with a command 'curl --request GET' and a JSON response containing a 'todos' object with a 'todo\_name' field set to 'Test Item' and other fields.

```
> curl --request GET \
> curl http://localhost:3000/
[{"todos": [{"todo_name": "Test Item", "id": "3c9880d4-fef7-4c46-b6d8-d83c227628ef", "todo_description": "Test Description", "todo_completed": true}]}]
```

Confidence Score: 8

Metadata {"prompt\_tokens": 1740, "completion\_tokens": 72, "total\_tokens": 1812}

---

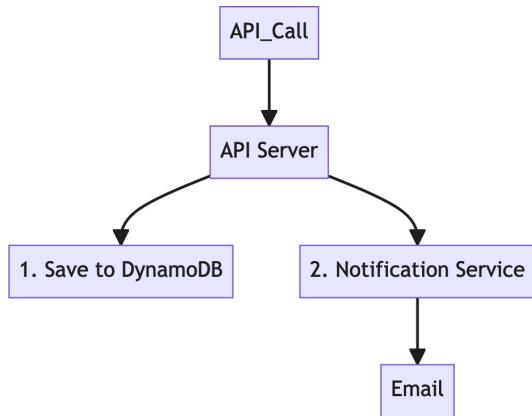


Image Number: 72

Page Number: 167

The image shows a diagram explaining an event-driven architecture for an API server. The diagram shows an 'API\_Call' box that connects to an 'API Server' box, which then connects to two boxes representing '1. Save to DynamoDB' and '2. Notification Service'. The 'Notification Service' box then connects to an 'Email' box, illustrating the flow of the application.

Confidence Score: 9

Metadata {"prompt\_tokens": 2587, "completion\_tokens": 109, "total\_tokens": 2696}

---

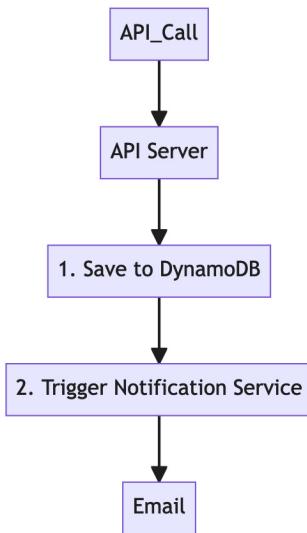


Image Number: 73

Page Number: 167

This diagram shows the steps involved in an event-driven architecture for handling orders and notifications in an e-commerce application. It starts with an API call that saves an order to DynamoDB, which then triggers a DynamoDB stream that invokes a Lambda function to send a notification.

Confidence Score: 9

Metadata {"prompt\_tokens": 2209, "completion\_tokens": 79, "total\_tokens": 2288}



Image Number: 74

Page Number: 193

A nighttime cityscape with illuminated skyscrapers and buildings reflecting in a body of water, creating a mirrored effect. The image has an orange-tinted color palette and the Packt Publishing logo is displayed on the top left.

Confidence Score: 9

Metadata {"prompt\_tokens": 1910, "completion\_tokens": 73, "total\_tokens": 1983}



Image Number: 75

Page Number: 196

A QR code with the text 'Packt is searching for authors like you' and instructions to scan the QR code to download a free PDF copy of the book.

Confidence Score: 9

Metadata {"prompt\_tokens": 783, "completion\_tokens": 58, "total\_tokens": 841}

---

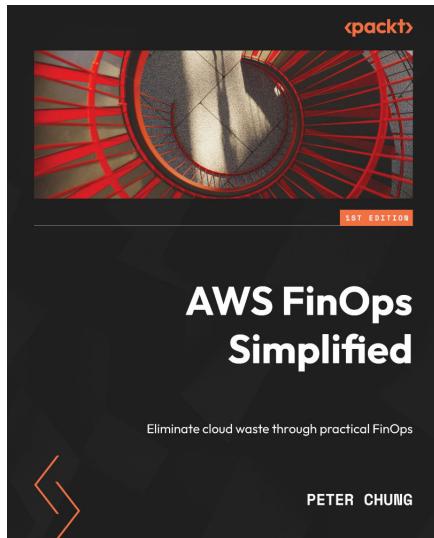


Image Number: 76

Page Number: 194

The image shows a book cover with the title 'AWS FinOps Simplified' by Peter Chung. The cover has an abstract background of red and black geometric shapes.

Confidence Score: 8

Metadata {"prompt\_tokens": 1836, "completion\_tokens": 59, "total\_tokens": 1895}

---



<b>Image Number</b>	<b>Prompt Tokens</b>	<b>Completion Tokens</b>	<b>Total Tokens</b>
1	2096	53	2149
2	791	51	842
3	1524	52	1576
4	1626	73	1699
5	1887	76	1963
6	1909	57	1966
7	1676	80	1756
8	1984	79	2063
9	2397	91	2488
10	2817	49	2866
11	1862	85	1947
12	2072	61	2133
13	1994	56	2050
14	2973	81	3054
15	2702	68	2770
16	2578	61	2639
17	1302	93	1395
18	2862	54	2916
19	2724	66	2790
20	1177	87	1264
21	1189	65	1254
22	1749	71	1820
23	2782	70	2852
24	2143	71	2214
25	1937	59	1996
26	1893	73	1966
27	1993	64	2057
28	1802	59	1861
29	2410	76	2486
30	2034	53	2087

Image Number	Prompt Tokens	Completion Tokens	Total Tokens
31	2850	92	2942
32	1970	81	2051
33	2752	62	2814
34	1894	52	1946
35	2118	97	2215
36	1767	75	1842
37	2010	78	2088
38	1331	67	1398
39	1947	64	2011
40	2376	129	2505
41	2310	63	2373
42	2784	84	2868
43	2125	54	2179
44	2283	78	2361
45	2788	82	2870
46	2176	92	2268
47	2463	93	2556
48	2544	89	2633
49	2132	47	2179
50	2716	86	2802
51	1454	90	1544
52	1264	59	1323
53	1842	116	1958
54	1226	79	1305
55	2594	81	2675
56	882	92	974
57	1414	76	1490
58	2588	48	2636
59	2415	52	2467
60	1474	64	1538

<b>Image Number</b>	<b>Prompt Tokens</b>	<b>Completion Tokens</b>	<b>Total Tokens</b>
61	1776	47	1823
62	2100	71	2171
63	1883	76	1959
64	1496	70	1566
65	2568	82	2650
66	1192	72	1264
67	2120	84	2204
68	2036	100	2136
69	1740	92	1832
70	2348	84	2432
71	1740	72	1812
72	2587	109	2696
73	2209	79	2288
74	1910	73	1983
75	783	58	841
76	1836	59	1895
<b>GRAND TOTAL</b>	<b>153698</b>	<b>5584</b>	<b>159282</b>