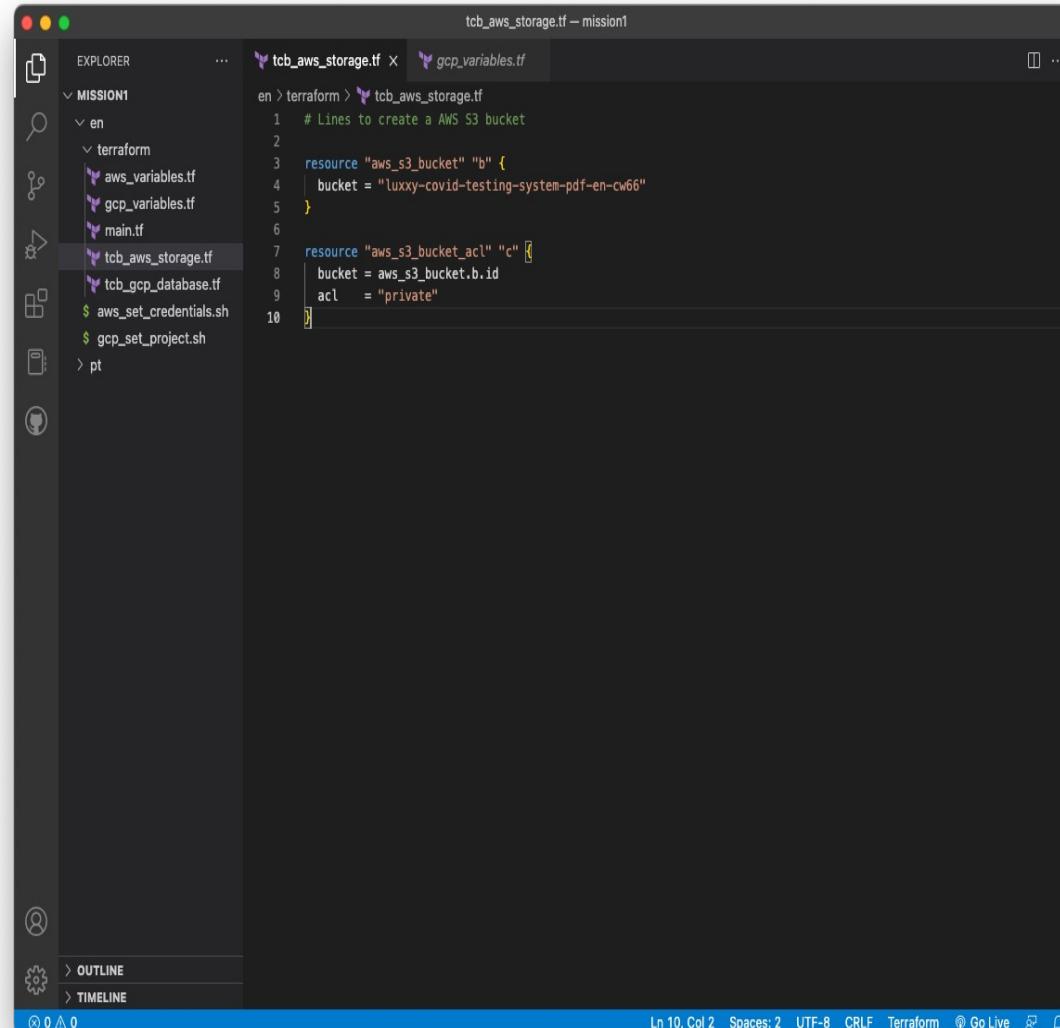




Multi-Cloud Computing

— to simplify and secure the operations of
a covid testing result system application

Use Terraform to create AWS S3 and GC SQL and GKE



tcb_aws_storage.tf – mission1

```
en > terraform > tcb_aws_storage.tf
1 # Lines to create a AWS S3 bucket
2
3 resource "aws_s3_bucket" "b" {
4   bucket = "luxxy-covid-testing-system-pdf-en-cw66"
5 }
6
7 resource "aws_s3_bucket_acl" "c" {
8   bucket = aws_s3_bucket.b.id
9   acl    = "private"
10 }
```

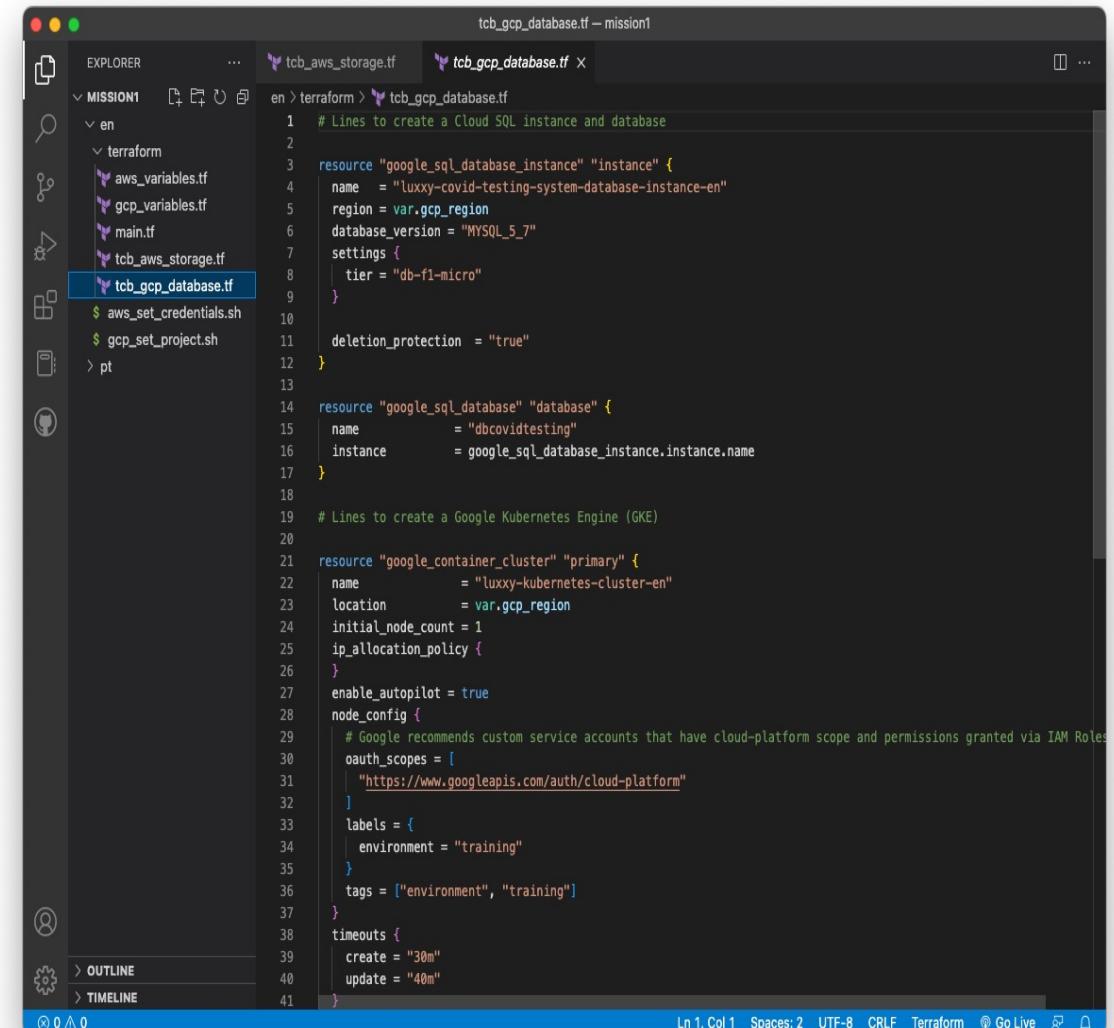
EXPLORER

- MISSION1
 - en
 - terraform
 - tcb_aws_storage.tf
 - tcb_gcp_database.tf
 - main.tf

OUTLINE

TIMELINE

Ln 10, Col 2 Spaces: 2 UTF-8 CRLF Terraform Go Live ⚡



tcb_gcp_database.tf – mission1

```
en > terraform > tcb_gcp_database.tf
1 # Lines to create a Cloud SQL instance and database
2
3 resource "google_sql_database_instance" "instance" {
4   name        = "luxxy-covid-testing-system-database-instance-en"
5   region     = var.gcp_region
6   database_version = "MYSQL_5_7"
7   settings {
8     tier = "db-f1-micro"
9   }
10
11   deletion_protection = "true"
12 }
13
14 resource "google_sql_database" "database" {
15   name        = "dbcovidtesting"
16   instance    = google_sql_database_instance.instance.name
17 }
18
19 # Lines to create a Google Kubernetes Engine (GKE)
20
21 resource "google_container_cluster" "primary" {
22   name          = "luxxy-kubernetes-cluster-en"
23   location      = var.gcp_region
24   initial_node_count = 1
25   ip_allocation_policy {
26   }
27   enable_autopilot = true
28   node_config {
29     # Google recommends custom service accounts that have cloud-platform scope and permissions granted via IAM Roles
30     oauth_scopes = [
31       "https://www.googleapis.com/auth/cloud-platform"
32     ]
33     labels = {
34       environment = "training"
35     }
36     tags = ["environment", "training"]
37   }
38   timeouts {
39     create = "30m"
40     update = "40m"
41   }
42 }
```

EXPLORER

- MISSION1
 - en
 - terraform
 - tcb_aws_storage.tf
 - tcb_gcp_database.tf
 - aws_variables.tf
 - gcp_variables.tf
 - main.tf
 - tcb_gcp_database.tf

OUTLINE

TIMELINE

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF Terraform Go Live ⚡

Use Terraform to create AWS S3 and GC SQL and GKE

The screenshot shows the Google Cloud Platform (GCP) console interface. The top navigation bar includes links for YouTube, Steps to implement Hands-on Project - Mission 1, Google Cloud Management Console, and S3 Management Console. The main header has tabs for Google Cloud, My First Project, and a search bar. On the left, a sidebar for 'Kubernetes Engine' is open, showing sections for Clusters, Workloads, Services & Ingress, Applications, Secrets & ConfigMaps, Marketplace, and Release Notes. The 'Clusters' section is selected, showing an 'OVERVIEW' tab with a table of clusters. One cluster, 'luxxy-kubernetes-cluster-en', is listed with the following details:

Status	Name	Location	Mode	Number of nodes	Total vCPUs	Total memory	Notifications	Labels
Green checkmark	luxxy-kubernetes-cluster-en	us-east4	Autopilot	0	0 GB	-	-	⋮

Below the cluster list is a 'CLOUD SHELL' terminal window titled '(generated-motif-377208)'. The terminal displays the following Terraform log output:

```
google_container_cluster.primary: Still creating... [5m10s elapsed]
google_sql_database_instance.instance: Still creating... [5m20s elapsed]
google_container_cluster.primary: Still creating... [5m20s elapsed]
google_sql_database_instance.instance: Still creating... [5m30s elapsed]
google_container_cluster.primary: Still creating... [5m30s elapsed]
google_sql_database_instance.instance: Still creating... [5m40s elapsed]
google_container_cluster.primary: Still creating... [5m40s elapsed]
google_sql_database_instance.instance: Still creating... [5m50s elapsed]
google_container_cluster.primary: Still creating... [5m50s elapsed]
google_sql_database_instance.instance: Still creating... [6m0s elapsed]
google_container_cluster.primary: Still creating... [6m0s elapsed]
google_sql_database_instance.instance: Still creating... [6m10s elapsed]
google_container_cluster.primary: Still creating... [6m10s elapsed]
google_sql_database_instance.instance: Still creating... [6m20s elapsed]
google_container_cluster.primary: Still creating... [6m20s elapsed]
google_container_cluster.primary: Creation complete after 6m29s [id:projects/generated-motif-377208/locations/us-east4/clusters/luxxy-kubernetes-cluster-en]
google_sql_database_instance.instance: Still creating... [6m30s elapsed]
google_sql_database_instance.instance: Still creating... [6m40s elapsed]
google_sql_database_instance.instance: Still creating... [6m50s elapsed]
google_sql_database_instance.instance: Still creating... [7m0s elapsed]
google_sql_database_instance.instance: Still creating... [7m10s elapsed]
google_sql_database_instance.instance: Still creating... [7m20s elapsed]
google_sql_database_instance.instance: Still creating... [7m30s elapsed]
google_sql_database_instance.instance: Still creating... [7m40s elapsed]
google_sql_database_instance.instance: Still creating... [7m50s elapsed]
```

Use Terraform to create AWS S3 and GC SQL and GKE

The image displays three separate browser windows illustrating the deployment of cloud infrastructure using Terraform:

- AWS S3 Bucket Creation:** A screenshot of the AWS S3 Management Console showing the creation of a new bucket named "luxxy-covid-testing-system-pdf-en-cw66". The Cloud Shell terminal at the bottom shows the Terraform command being run:

```
google_s3_bucket_instance.instance: Still creating... [1m30s elapsed]
```
- Google Cloud SQL Cluster Creation:** A screenshot of the Google Cloud SQL console showing the creation of a new cluster named "luxxy-kubernetes-cluster-en". The Cloud Shell terminal at the bottom shows the Terraform command being run:

```
google_sql_database_instance.instance: Still creating... [1m30s elapsed]
```
- Google Kubernetes Engine Cluster Creation:** A screenshot of the Google Cloud Kubernetes Engine console showing the creation of a new cluster named "luxxy-kubernetes-cluster-en". The Cloud Shell terminal at the bottom shows the Terraform command being run:

```
google_kubernetes_engine_cluster.cluster: Still creating... [1m30s elapsed]
```

Create access key for app user on AWS

The screenshot shows the AWS IAM Management Console interface. On the left, a sidebar navigation menu includes sections for Identity and Access Management (IAM), Access management (User groups, Users, Roles, Policies, Identity providers, Account settings), and Access reports (Access analyzer, Archive rules, Analyzers, Settings). Below these are Related consoles links for IAM Identity Center and CloudTrail.

The main content area displays the 'luxxy-covid-testing-system-en-app1' user details under the 'Users' section. The 'Summary' tab is selected, showing the ARN (arn:aws:iam::216486964322:user/luxxy-covid-testing-system-en-app1), Console access status (Disabled), and two sets of Access keys (both Not enabled). The 'Permissions' tab is active, showing one attached policy: 'AmazonS3FullAccess' (Type: AWS managed, Attached via Directly).

At the bottom, there is a note about generating a policy based on CloudTrail events, and footer links for Feedback, Language, Privacy, Terms, and Cookie preferences.

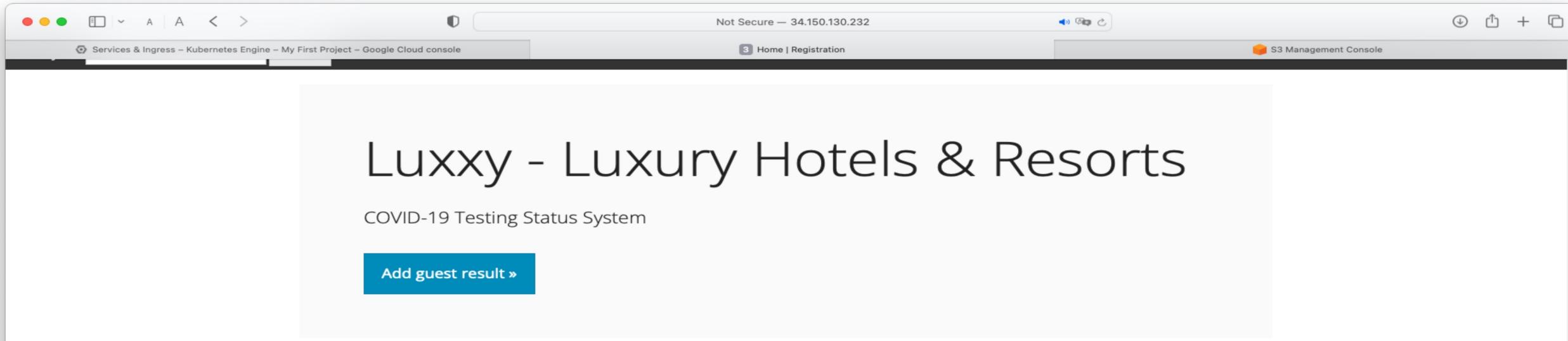
Push Docker image to GCP Container Registry

The screenshot shows the Google Cloud Container Registry interface within the Google Cloud console. The left sidebar shows 'Container Registry' selected under 'Google Cloud'. The main area displays the 'Images' section for the project 'My First Project'. A single image named 'luxxy-covid-testing-system-app-en' is listed, with its full path being 'gcr.io/generated-motif-377208/luxxy-covid-testing-system-app-en'. Below the image list is a table with columns: Name, Tags, Virtual Size, Created, and Uploaded. One row is shown for the image 'bcb3a2e58537' with the 'latest' tag, which is 361.4 MB in size and was created and uploaded 2 minutes ago. At the bottom of the page is a terminal window titled '(generated-motif-377208)' showing the command-line output of the Docker push process.

```
8fcfc59d80ac: Preparing
0a30fae8bb98: Waiting
bbf494b0184f: Waiting
6d9a05132744: Waiting
e4c97b13f26a: Waiting
52fb12b3f764: Waiting
0dafd2b156dd: Waiting
152e2eadff76: Waiting
738226f36892: Waiting
8fcfc59d80ac: Waiting
0e17cc930d22: Pushed
511140f0cd6f: Pushed
491d08a3c806: Pushed
0a30fae8bb98: Layer already exists
bbf494b0184f: Layer already exists
6d9a05132744: Layer already exists
e4c97b13f26a: Layer already exists
52fb12b3f764: Layer already exists
0dafd2b156dd: Layer already exists
152e2eadff76: Layer already exists
738226f36892: Layer already exists
8fcfc59d80ac: Layer already exists
bf486e6f0995: Pushed
d5c70e80c294: Pushed
latest: digest: sha256:bcb3a2e585373cf69bcb39f0b25ff7a8bcfb8b168e56cf056d233cae849c6e5 size: 3266
DONE

ID: b130ce4c-8b43-4805-bc46-52aa4e8434fc
CREATE_TIME: 2023-02-09T22:10:02+00:00
DURATION: 1M12S
SOURCE: gs://generated-motif-377208/cloudbuild/source/1675980601.720253-358b1c8f8a62417398b52337b38b31b0.tgz
IMAGES: gcr.io/generated-motif-377208/luxxy-covid-testing-system-app-en (+1 more)
STATUS: SUCCESS
wzhj_ds@cloudshell:~/mission2_en/mission2/en/app (generated-motif-377208)$ 
```

Deploy App in GKE clusters



A screenshot of a web browser window titled "Services & Ingress – Kubernetes Engine – My First Project – Google Cloud console". The address bar shows "Not Secure — 34.150.130.232". The main content area displays the "Luxxy - Luxury Hotels & Resorts" website, which includes a "COVID-19 Testing Status System" and a "Add guest result »" button. The browser's tab bar also lists "Home | Registration" and "S3 Management Console".



GCP database migration

The screenshot shows the Google Cloud SQL Overview page. At the top, there are tabs for Home | Registration, S3 Management Console, Mission 3 - Intensive Cloud Training - YouTube, and Intensive Cloud Computing Hands-On Train... The main area displays a chart titled "CPU utilization" with a blue line graph showing usage over time, ranging from 0% to 10%. Below the chart, there are sections for PRIMARY INSTANCE (Overview and Release Notes) and CLOUD SHELL (Terminal). The terminal window shows the following MySQL session:

```
Query OK, 1 row affected (0.06 sec)
Query OK, 0 rows affected (0.06 sec)
Query OK, 0 rows affected (0.06 sec)
mysql> select * from records;
+----+-----+-----+-----+-----+
| id | guest_name | home_country | testing_type | testing_result | pdf
+----+-----+-----+-----+-----+
| 1 | Ervin Miles | USA | Antigen | Negative | s029s02-as020209s-s29312-as-ervin.pdf |
| 2 | Jackie Stone | UK | Antigen | Negative | s029s02-as020209s-s29312-as-jackie.pdf |
| 3 | Joseph Vargas | Germany | Antigen | Negative | s029s02-as020209s-s29312-as-joseph.pdf |
| 4 | Velma Allison | Finland | Antigen | Negative | s029s02-as020209s-s29312-as-velma.pdf |
| 5 | Darryl Gregor | USA | Antigen | Negative | s029s02-as020209s-s29312-as-darryl.pdf |
| 6 | Jeannie Newto | USA | Antigen | Negative | s029s02-as020209s-s29312-as-jeanni.pdf |
| 7 | Kumar Moore | India | Antigen | Negative | s029s02-as020209s-s29312-as-lydia.pdf |
| 8 | Troy Gross | USA | Antigen | Negative | s029s02-as020209s-s29312-as-troyg.pdf |
| 9 | Sally McGuire | USA | Antigen | Negative | s029s02-as020209s-s29312-as-sally.pdf |
| 10 | Joao Silva | Brazil | Antigen | Negative | s029s02-as020209s-s29312-as-johnni.pdf |
| 11 | Otis Pearson | USA | Antigen | Negative | s029s02-as020209s-s29312-as-otisp.pdf |
| 12 | Rosemary Morg | USA | Antigen | Negative | s029s02-as020209s-s29312-as-rosema.pdf |
| 13 | Tony Barnes | USA | Antigen | Negative | s029s02-as020209s-s29312-as-tonyb.pdf |
| 14 | Theresa McGee | USA | Antigen | Negative | s029s02-as020209s-s29312-as-theres.pdf |
| 15 | Dora Phillips | USA | Antigen | Negative | s029s02-as020209s-s29312-as-dorap.pdf |
| 16 | Irving Harvey | USA | Antigen | Negative | s029s02-as020209s-s29312-as-irving.pdf |
| 17 | Isaac Cobb | USA | Antigen | Negative | s029s02-as020209s-s29312-as-isaac.pdf |
| 18 | Shaun Alexand | USA | Antigen | Negative | s029s02-as020209s-s29312-as-shaun.pdf |
| 19 | Jana Cruz | USA | Antigen | Negative | s029s02-as020209s-s29312-as-janac.pdf |
| 20 | Tricia Berry | USA | Antigen | Negative | s029s02-as020209s-s29312-as-tricia.pdf |
| 21 | Annie Meyer | USA | Antigen | Negative | s029s02-as020209s-s29312-as-annie.pdf |
| 22 | Peter Patrick | USA | Antigen | Negative | s029s02-as020209s-s29312-as-peter.pdf |
| 23 | Laurence Wade | USA | Antigen | Negative | s029s02-as020209s-s29312-as-lauren.pdf |
| 24 | Roger Summers | USA | Antigen | Negative | s029s02-as020209s-s29312-as-roger.pdf |
| 25 | Yvonne Stevenn | USA | Antigen | Negative | s029s02-as020209s-s29312-as-yvonne.pdf |
| 26 | Lisa Lloyd | USA | Antigen | Negative | s029s02-as020209s-s29312-as-lisal.pdf |
| 27 | Terry McCormi | USA | Antigen | Negative | s029s02-as020209s-s29312-as-terry.pdf |
| 28 | Javier Reid | USA | Antigen | Negative | s029s02-as020209s-s29312-as-javier.pdf |
| 29 | Jamie George | USA | Antigen | Negative | s029s02-as020209s-s29312-as-jamie.pdf |
| 30 | Judith Miller | USA | Antigen | Negative | s029s02-as020209s-s29312-as-judith.pdf |
+----+-----+-----+-----+-----+
```

AWS PDF files migration

The screenshot shows a browser window with multiple tabs open. The active tab is an AWS CloudShell terminal titled 'us-east-1'. The terminal window has a dark header bar with the AWS logo, 'Services' dropdown, 'Search' bar, and 'Actions' button. Below the header is a scrollable text area displaying a log of PDF file uploads. The log consists of many identical lines, each starting with 'upload:' followed by a file path and destination. The file paths are relative to a directory named 'pdf_files'. The destinations are URLs starting with 's3://luxxy-covid-testing-system-pdf-en-cw66/'. The log ends with '[cloudshell-user@ip-10-6-37-112 pdf_files]\$'. Other tabs visible in the browser include 'luxxy-cov...stance-en – Overview – SQL – My First Project – Google Cloud...', 'AWS CloudShell', 'Mission 3 - Intensive Cloud Training – YouTube', and 'Steps to implement Hands-on Project – Mission 3'. The browser interface includes standard navigation buttons (back, forward, search) and a top bar with the URL 'us-east-1.console.aws.amazon.com'.

```
upload: ./s029s02-as0202o9s-s29312-as-annie.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-annie.pdf
upload: ./s029s02-as0202o9s-s29312-as-charle.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-charle.pdf
upload: ./s029s02-as0202o9s-s29312-as-annsh.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-annsh.pdf
upload: ./s029s02-as0202o9s-s29312-as-cliffo.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-cliffo.pdf
upload: ./s029s02-as0202o9s-s29312-as-irving.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-irving.pdf
upload: ./s029s02-as0202o9s-s29312-as-beverl.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-beverl.pdf
upload: ./s029s02-as0202o9s-s29312-as-billie.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-billie.pdf
upload: ./s029s02-as0202o9s-s29312-as-darryl.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-darryl.pdf
upload: ./s029s02-as0202o9s-s29312-as-jamie.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-jamie.pdf
upload: ./s029s02-as0202o9s-s29312-as-dorap.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-dorap.pdf
upload: ./s029s02-as0202o9s-s29312-as-isaac.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-isaac.pdf
upload: ./s029s02-as0202o9s-s29312-as-brandi.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-brandi.pdf
upload: ./s029s02-as0202o9s-s29312-as-javier.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-javier.pdf
upload: ./s029s02-as0202o9s-s29312-as-janac.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-janac.pdf
upload: ./s029s02-as0202o9s-s29312-as-judith.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-judith.pdf
upload: ./s029s02-as0202o9s-s29312-as-jackie.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-jackie.pdf
upload: ./s029s02-as0202o9s-s29312-as-ervin.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-ervin.pdf
upload: ./s029s02-as0202o9s-s29312-as-kaycr.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-kaycr.pdf
upload: ./s029s02-as0202o9s-s29312-as-jeanni.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-jeanni.pdf
upload: ./s029s02-as0202o9s-s29312-as-joseph.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-joseph.pdf
upload: ./s029s02-as0202o9s-s29312-as-lillie.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-lillie.pdf
upload: ./s029s02-as0202o9s-s29312-as-johnni.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-johnni.pdf
upload: ./s029s02-as0202o9s-s29312-as-lauren.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-lauren.pdf
upload: ./s029s02-as0202o9s-s29312-as-mandy.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-mandy.pdf
upload: ./s029s02-as0202o9s-s29312-as-marily.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-marily.pdf
upload: ./s029s02-as0202o9s-s29312-as-maggie.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-maggie.pdf
upload: ./s029s02-as0202o9s-s29312-as-kristi.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-kristi.pdf
upload: ./s029s02-as0202o9s-s29312-as-lisal.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-lisal.pdf
upload: ./s029s02-as0202o9s-s29312-as-melvin.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-melvin.pdf
upload: ./s029s02-as0202o9s-s29312-as-otisp.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-otisp.pdf
upload: ./s029s02-as0202o9s-s29312-as-lydia.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-lydia.pdf
upload: ./s029s02-as0202o9s-s29312-as-peter.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-peter.pdf
upload: ./s029s02-as0202o9s-s29312-as-nichol.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-nichol.pdf
upload: ./s029s02-as0202o9s-s29312-as-phill.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-phill.pdf
upload: ./s029s02-as0202o9s-s29312-as-rosema.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-rosema.pdf
upload: ./s029s02-as0202o9s-s29312-as-roger.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-roger.pdf
upload: ./s029s02-as0202o9s-s29312-as-stacy.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-stacy.pdf
upload: ./s029s02-as0202o9s-s29312-as-sally.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-sally.pdf
upload: ./s029s02-as0202o9s-s29312-as-tonyb.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-tonyb.pdf
upload: ./s029s02-as0202o9s-s29312-as-terry.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-terry.pdf
upload: ./s029s02-as0202o9s-s29312-as-shaun.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-shaun.pdf
upload: ./s029s02-as0202o9s-s29312-as-theres.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-theres.pdf
upload: ./s029s02-as0202o9s-s29312-as-susan.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-susan.pdf
upload: ./s029s02-as0202o9s-s29312-as-velma.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-velma.pdf
upload: ./s029s02-as0202o9s-s29312-as-yvonne.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-yvonne.pdf
upload: ./s029s02-as0202o9s-s29312-as-troyg.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-troyg.pdf
upload: ./s029s02-as0202o9s-s29312-as-tricia.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-tricia.pdf
upload: ./s029s02-as0202o9s-s29312-as-victor.pdf to s3://luxxy-covid-testing-system-pdf-en-cw66/s029s02-as0202o9s-s29312-as-victor.pdf
```

Test the Luxxy App

The screenshot shows a web browser window with the URL "Not Secure — 34.150.130.232". The page title is "Luxxy". The main content area is titled "Records" and displays a table of guest test results. The columns are: Guest Name, Home Country, Testing Type, Testing Result, Scanned Result (PDF), Edit, and Delete. Each row represents a guest record with a "Link" button for the PDF and "Edit" and "Delete" buttons.

Guest Name	Home Country	Testing Type	Testing Result	Scanned Result (PDF)	Edit	Delete
Amanda Colema	USA	Antigen	Negative	Link	Edit	Delete
Ann Sharp	USA	Antigen	Negative	Link	Edit	Delete
Annie Meyer	USA	Antigen	Negative	Link	Edit	Delete
Beverly Cohen	USA	Antigen	Negative	Link	Edit	Delete
Billie Baldwin	USA	Antigen	Negative	Link	Edit	Delete
Brandi Mathis	USA	Antigen	Negative	Link	Edit	Delete
Charlene Brya	USA	Antigen	Negative	Link	Edit	Delete
Clifford Gray	USA	Antigen	Negative	Link	Edit	Delete
Dallas Maxwell	USA	Antigen	Negative	Link	Edit	Delete
Darryl Gregor	USA	Antigen	Negative	Link	Edit	Delete
Dora Phillips	USA	Antigen	Negative	Link	Edit	Delete
Ervin Miles	USA	Antigen	Negative	Link	Edit	Delete
Irving Harvey	USA	Antigen	Negative	Link	Edit	Delete
Isaac Cobb	USA	Antigen	Negative	Link	Edit	Delete

Search/Edit/Add records on the App

The screenshot shows a web browser window with the following details:

- Address Bar:** Not Secure — 34.150.130.232
- Tab Bar:** Luxxy-covid-testing-system – Deployment details – Kubernetes..., New record | Registration, luxxy-covid-testing-system-pdf-en-cw66 – S3 bucket, Mission 3 – Intensive Cloud Training - YouTube, Steps to implement Hands-on Project – Mission 3
- Header:** Luxxy, Guest Name..., Search, New, View Guest Results
- Content:**
 - New record** heading
 - Guest Name**: Input field
 - Home Country**: Input field
 - Testing Type**: Input field
 - Testing Result**: Input field
 - Scanned Result (PDF)**: File input field with "Choose File" button and "no file selected" message
 - Add** button (green)
- Footer:** © The Cloud Bootcamp. All rights reserved (Created for educational purposes only - prohibited production)