

Section 1 – Setup Amazon Q Business

The screenshot shows the IAM Identity Center Groups page. On the left, there's a sidebar with 'Managing instance' (QBusiness-SSO-Instance), 'Dashboard', 'Users', 'Groups' (selected), and 'Settings'. Under 'Application assignments', there's a section for 'Applications'. Below that are 'Related services' like AWS Organizations and IAM. At the bottom of the sidebar are links for 'CloudWatch', 'Feedback', 'Privacy', 'Terms', and 'Cookie preferences'. The main content area shows a 'Did you know?' box about assigning permissions to groups. It then displays the 'CareerCoaches' group details, including a 'General Information' section with tabs for 'Users' (selected) and 'Applications'. A table lists users in the group, including 'career.coach.one' (Enabled, email: qbusiness@vocareum.com) and 'career.coach.two' (Enabled, email: qbusiness_2@vocareum.com). There are buttons to 'Remove users from group' and 'Add users to group'.

APPLICATION

The screenshot shows the 'CareerCoachApp' application interface. The top navigation bar includes 'Home', 'Feedback', 'Help', and 'Logout'. On the left, there's a sidebar with 'Apps' (selected), 'CloudWatch', 'Utility', and 'Feedback'. The main content area has three cards: 'Recommendation by Coach' (status: Generating test as soon as Uploaded CV and Upload Job Profile are filled), 'Training Recommendation' (status: Generating test as soon as Upload Job Profile and Upload CV are filled), and 'Schedule' (status: Generating test as soon as Upload CV and Upload Job Profile are filled). Below these cards is a 'Skill Gap Analysis' card (status: Generating test as soon as Upload Job Profile and Upload CV are filled). At the bottom, there are two input fields: 'Upload CV' (drag and drop or browse for file) and 'Upload Job Profile' (drag and drop or browse for file). Between them is a button labeled 'Generate output'.

Generating Results

The screenshot shows the 'CareerCoachApp' interface. It features three main cards: 'Recommendation by Coach' (Analysis of David Otieno's CV and Career Path), 'Training Recommendation' (Training Recommendations for David Otieno), and 'Schedule' (Performance Improvement Schedule). A modal window titled 'Skill Gap Analysis' is overlaid on the page. This modal contains a table with the following data:

| Skill Area | Current Proficiency | Required Level | Gap Assessment | Recommended Development Path |
|------------------|-----------------------|----------------|----------------|---|
| Data Analytics | Basic (Interest only) | Advanced | Significant | Complete FIFA-endorsed Sports Analytics Certification, supplement with online courses in statistical analysis for sports performance. |
| Technical Skills | Intermediate | Expert | Minor | Attend AI sports technology workshop focusing on wearable tech. |

Below the table, there are two input fields: 'Upload CV' containing 'My_CV.pdf' and 'Upload Job Profile' containing 'AWS_BI_Engineer_Project.pdf'. A 'Reset' button is located at the bottom right of the modal.

Functionality of added components

The screenshot shows the 'CareerCoachApp' interface. It features three main cards: 'Recommendation by Coach' (Recommendations for David Otieno as a Head Coach), 'Training Recommendation' (Training Recommendations in Priority Order), and 'Schedule' (5-Month Extra Activity Schedule to Improve Performance). The 'Recommendation by Coach' card is expanded to show detailed recommendations:

- Leverage Your Strengths**
 - Continue building on your proven record of guiding teams to success, as demonstrated by your top 3 finish with Mombasa Stars FC.
 - Utilize your youth development experience from Kikuyu Young Talents Academy to nurture emerging talent.
- Professional Development**
 - Pursue higher coaching licenses beyond your current CAF D License to expand your tactical knowledge.
 - Consider specialized certifications in sports nutrition to complement your personal interest in this area.
- Technical Focus Areas**

The 'Training Recommendation' card shows 'Priority 1: Technical Skills Development' and 'Priority 2: Tactical Understanding' with their respective bullet points. The 'Schedule' card shows a 'Month 1: Technical Foundations' and 'Month 2: Tactical Understanding' with their respective bullet points.

Skill Gap Analysis Output card

Output

Title: Skill Gap Analysis

Prompt:

Analyze **Upload Job Profile** and **Upload CV** and perform a skill gap analysis. Display output in a table format, and restrict it to 5 skills only.

Source: Attached files

Delete card Save

Upload Job Profile are filled

file and **Upload CV** are filled

SYNC

Sync started successfully at Nov 20, 2025, 7:23 AM GMT+3.
Amazon Q Business is syncing the following data source: 'my-data-search'. It can take from a few minutes to a few hours. Sync speeds are limited by factors such as remote repository throughput and throttling, network bandwidth, and the size of documents.

my-data-search

Data source details

| Name | Status | Last sync status |
|--------------------------------------|--|--|
| my-data-search | Active | - |
| Description | Type | Last sync time |
| - | S3V2 | - |
| Data source ID | IAM role ARN | Current sync state |
| 79a07c07-c261-4477-8591-d8466fc45c0d | arn:aws:iam::669375921475:role/QBusinessDataRole | 1 Syncing - crawling Syncing - Indexing |

Sync now Stop sync Actions

This information isn't currently available.

Was this content helpful? Yes No

Sync history Troubleshooting tools - new Settings Tags

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Daily sync is configured

Locate the folder that has your metadata JSON

[Browse S3](#)

Filter patterns - optional
 Add a pattern to include (only) certain folders, or to exclude folders, file types or specific files in your repository. All paths are relative to the data source location (S3 bucket). You can have a combined total of 100 patterns.

Multi-media content configuration - optional

Advanced Settings - optional [info](#)

Sync run schedule [info](#)

Tell Amazon Q Business how often it should sync this data source. You can check the health of your sync jobs in the data source details page area the data source is created.

Frequency
 Select how often you want your data source to sync.

Start time

(UTC)

Last Sync: 11:21 AM (UTC+3)

Tags - optional [info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

UPLOADED FILES

S3 Bucket files

The screenshot shows the AWS S3 'Upload' interface. At the top, it says 'us-west-2.console.aws.amazon.com/S3/upload/career-coach-course-demo?region=us-west-2'. Below that, the breadcrumb navigation shows 'AWS > Amazon S3 > Buckets > career-coach-course-demo > Upload'. The main area is titled 'Upload' with a sub-section 'info'. It instructs users to 'Add the files and folders you want to upload to S3. To upload a file larger than 16GB, use the AWS CLI, AWS SDKs or Amazon S3 REST API.' A large text input field is present for dragging and dropping files. Below this is a table titled 'Files and folders (2 total, 65.1 KB)' showing two PDF files: 'Achievement_coach.pdf' and 'coach_profile.pdf'. There are buttons for 'Remove', 'Add files', and 'Add folder'. The 'Destination' section shows the URL 's3://career-coach-course-demo/'. The 'Permissions' section indicates 'Grant public access and access to other AWS accounts'. The status bar at the bottom right shows 'Account ID: 000000000000' and 'Endpoint: us-west-2.console.aws.amazon.com'.

BUCKET

The screenshot shows the AWS S3 'Buckets' interface. The top navigation bar includes 'Search' and 'All AWS Regions'. The breadcrumb navigation shows 'AWS > Buckets'. A green success message box says 'Successfully created bucket "coachbucket"'. It includes a link 'To upload files and folders, or to configure additional bucket settings, choose View details.' Below this is a table for 'General purpose buckets' with columns 'Name', 'AWS Region', and 'Creation date'. It lists two buckets: 'career-coach-course-demo' (US West (Oregon) us-west-2, November 20, 2020, 03:59:05 UTC+01:00) and 'coachbucket' (US West (Oregon) us-west-2, December 7, 2020, 18:07:57 UTC+01:00). Action buttons include 'Copy ARN', 'Empty', 'Delete', and 'Create bucket'. To the right, there are sections for 'Account snapshot' (updated daily) and 'External access summary - new' (updated daily). The status bar at the bottom right shows 'Account ID: 000000000000' and 'Endpoint: us-west-2.console.aws.amazon.com'.

Access control

The screenshot shows a web browser window titled "Career Coach Assistant". The URL is `jowco41.chat.qbusiness.us-west-2.on.aws:4/chat/2973379a-1540-4a63-8041-6906da70f65`. The main content area displays a question from an AI assistant: "A Where is the person live everyday". Below it, a user icon with a blue circle and a question mark is followed by a message: "I cannot complete this request as the response contains content that is blocked by your Admin. Please contact your Admin for help." At the bottom of the interface, there are tabs for "Company knowledge" and "General knowledge", and a search bar with placeholder text "Ask a follow-up question". There are also "Plugins" and "Advanced search" options. On the left side, there is a sidebar with icons for "Feedback", "Help", and "Logout".

Blocked words

The screenshot shows the Amazon Q Business interface. On the left, there's a sidebar with sections like Enhancements, Actions, and Insights. The main area is titled "Admin controls and guardrails". A prominent green success message box says "Successfully updated global controls". Below it, under "Feature settings", there are two options: "Allow end users to upload files in chat content" (status: On) and "Allow end users of the web experience to create and use Amazon Q Apps" (status: On). Under "Blocked words (5)", there are five listed: Word, Gambling, Casino, Attack, and Self-harm. At the bottom right of the main area, there are links for "Privacy", "Terms", and "Cookie preferences".

ACL file created

This screenshot shows the AWS CloudFront console. At the top, a green success message box says "Upload succeeded". Below it, the "Summary" section shows the destination as "s3://career-coach-course-demo" with a breakdown: "Succeeded" (1 file, 301.0 B (100.00%)) and "Failed" (0 files, 0 B (0%)). The "Files and folders" tab is selected, showing a table with one item: "restricted-courses.acl.json". The table columns are Name, Folder, Type, Size, Status, and Error. The status for the file is "Succeeded". At the bottom, there are links for "CloudShell" and "Feedback".

ACL full configuration

```
restricted-course-acl - Notepad
File Edit Format View Help
{
  {
    "keyPrefix": "Football_Coach_CV.pdf",
    "aclEntries": [
      {
        "Name": "career.coach.two",
        "Type": "USER",
        "Access": "ALLOW"
      },
      {
        "Name": "career.coach.one",
        "Type": "USER",
        "Access": "DENY"
      }
    ],
    {
      "keyPrefix": "Achievement_coach.pdf",
      "aclEntries": [
        {
          "Name": "career.coach.one",
          "Type": "USER",
          "Access": "ALLOW"
        },
        {
          "Name": "career.coach.two",
          "Type": "USER",
          "Access": "ALLOW"
        }
      ]
    }
}
```

ACL UPLOADED

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with 'Amazon S3' and 'Buckets' followed by the path 'career-coach-course-demo'. Below the navigation is a header with tabs: 'Objects' (which is selected), 'Metadata', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. Under the 'Objects' tab, there's a sub-header 'Objects (3)'. A note below it says: 'Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventories to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions.' There's a link 'Learn more' with a question mark icon. Below the note is a search bar with the placeholder 'Find objects by prefix' and a dropdown menu. To the right of the search bar are several actions: 'Copy to URI', 'Copy URL', 'Download', 'Open in', 'Delete', 'Actions' (with a dropdown arrow), 'Create folder', and a trash bin icon. The main area displays a table of objects:

| Name | Type | Last modified | Size | Storage class |
|----------------------------|------|---|---------|---------------|
| Achievement_coach.pdf | pdf | December 7, 2025, 12:00:49 (UTC+00:00) | 62.4 KB | Standard |
| Football_Coach_CV.pdf | pdf | November 26, 2025, 04:01:17 (UTC+03:00) | 2.7 KB | Standard |
| restricted-course-acl.json | json | December 7, 2025, 12:40:50 (UTC+00:00) | 220.0 B | Standard |

Screenshot of the AWS Lambda console showing the configuration for a new function named "Lambda-Scrub-Role-Bucket".

The "Data source" tab is selected. The "Access control list (ACL) configuration file location - optional" field contains the value "s3://Lambda-Scrub-Role-Bucket/restricted-courses-ml.json".

Other sections visible include:

- Metadata files folder location - optional**: A note says "Locate the folder that has your metadata JSON."
- Filter patterns - optional**: A note says "Add a pattern to include only certain folders, or to exclude folders, file types or specific files in your repository. All paths are relative to the data source location S3 bucket. You can have a combined total of 100 patterns."
- Multi-media content configuration - optional**
- Advanced Settings - optional**

The "Sync run schedule" section shows the frequency set to "Daily" at "01:45 UTC".

The taskbar at the bottom shows various application icons and the system clock indicating 12:47 PM.

ACCESS ALLOWED

A screenshot of a web-based AI knowledge base interface.

At the top left, there is a user icon and the text "what are the Achievement of coach".

The main content area displays a card with the following text:

The coach has achieved several notable professional accomplishments throughout their career. They successfully guided their team to a 10-match unbeaten streak in 2021. [] They improved the team's defensive record by reducing goals conceded by 35% in a single season. [] The coach trained two academy players who were later signed by National Super League clubs. []

They introduced modern conditioning drills that increased team stamina by 25% and led their team to win the Regional Coaches Fair Play Award in 2020. [] The coach developed a structured youth pathway that produced five senior-team promotions and achieved the Best Tactical Coach Award during a regional coaching clinic in 2023. []

Additionally, they organized and led successful pre-season training camps that improved squad cohesion, implemented video match analysis that improved decision-making in key matches, and were recognized for excellence in player development and discipline by club management. []

Below the text are buttons for "Events" and "Sources". To the right are icons for sharing and saving.

At the bottom, there are tabs for "Company knowledge" and "General knowledge", and a button labeled "Ask a followup question".

ACCESS DENIED

The screenshot shows the Amazon Q interface. On the left is a sidebar with icons for Chat, Binary, Ops, Feedback, Info, and Out. The main area has a title "Career Coach Assistant" and a "Create Amazon Q App" button. A search bar contains the query "what are the Achievement of coach". Below it, a message says "No answer is found." with buttons for "Events" and "Sources". There are also like, dislike, share, and edit buttons. Below the search bar are tabs for "Company knowledge" and "General knowledge". A section for "Ask a followup question" includes a "Plugins" checkbox and an "Advanced search" toggle. A note at the bottom states "Amazon Q Business uses generative AI. You may need to verify responses for accuracy. AWS Responsible AI Policy" with a link.

App is shared

The screenshot shows a modal dialog titled "Edit categories" for the "CareerCoachApp". The dialog has a "Preview" section on the left showing the app's name, published date (December 7, 2025), and a brief description ("A quick example of Amazon Q Apps' capabilities"). It also shows three selected categories: HR, Support, and General. On the right is a "Categories" list with checkboxes for various options: Legal, Marketing, Finance, Operations, HR, IT, Support, Supply Chain, Sales, and General. The "Support" category is currently selected.

The screenshot shows the 'Amazon Q Apps' library interface. On the left, there's a sidebar with navigation links like 'Amazon Q Business', 'Applications', 'Enhancements', 'Actions', 'Help', and 'Documentation'. The main area is titled 'Amazon Q Apps' and shows a table of 'Published Amazon Q Apps in library (1)'. The table has columns for 'Name', 'Description', 'Created time', 'Creator', and 'Share'. One row is visible: 'CareerCoachApp' with the description 'A quick example of Amazon Q Apps...', created on Nov 30, 2023, by 'Career Coach Test', and a 'Share' button.

The screenshot shows the Amazon Q mobile application interface. The left side features a vertical navigation bar with icons for 'Chat', 'Library', and 'Apps'. The main screen is titled 'Apps' and shows a 'Recently used' section. It lists 'CareerCoachApp' which is 'Published' with a checkmark icon. Below the list is a placeholder text 'A quick example of Amazon Q Apps...'. There are also edit and back buttons at the top right of the list view.