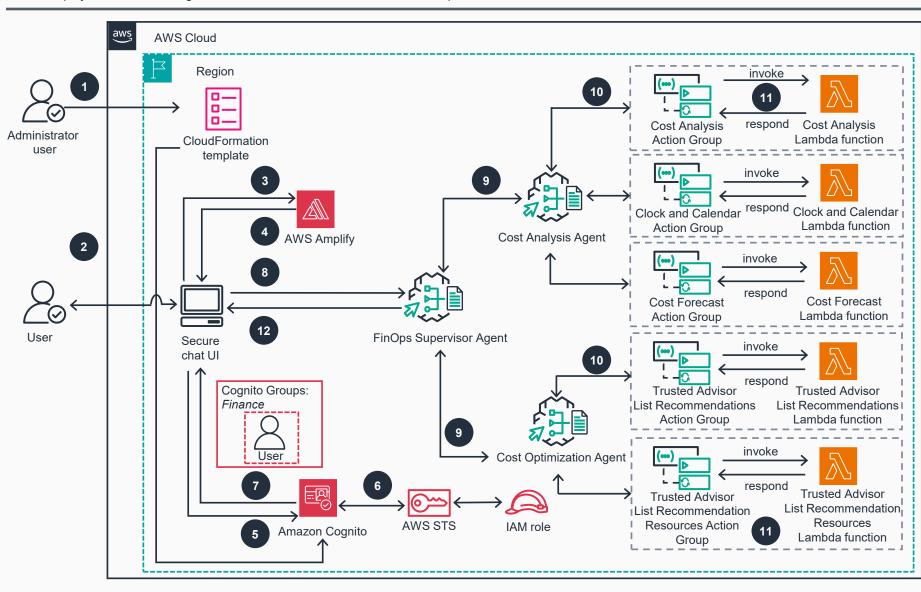
Guidance for Cost Analysis and Optimization with Amazon Bedrock Agents

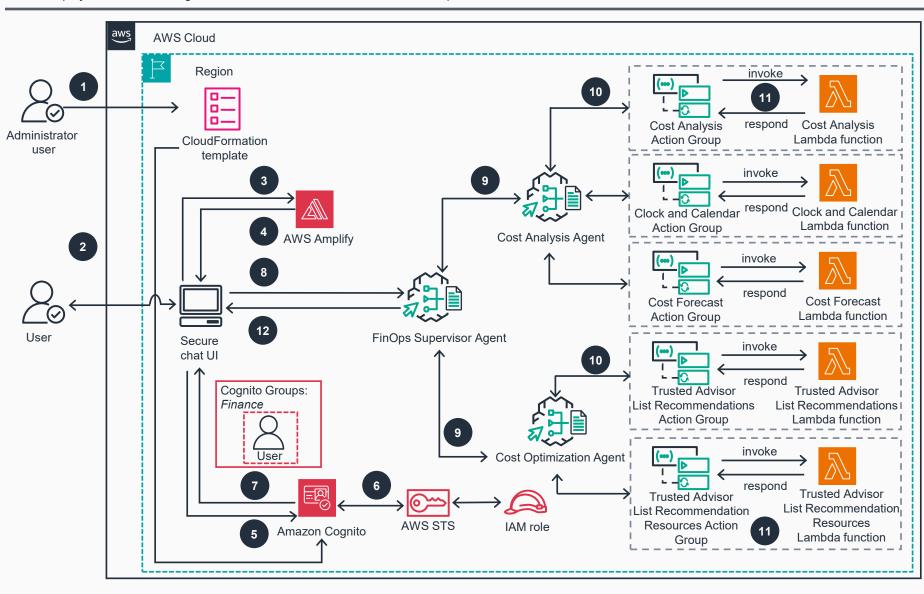
This architecture diagram shows a hierarchical Amazon Bedrock Agents system with one supervisor managing two subordinate agents, integrated with AWS Amplify and Amazon Cognito for authentication. This slide shows Steps 1-8.



- The administrator user deploys the Guidance to an AWS Account and AWS Region using an AWS CloudFormation template.
 - The base CloudFormation stack will deploy and create all the AWS resources needed to host the Guidance. This includes the Amazon Cognito user group and user, Amazon Bedrock Agents, AWS Lambda functions, AWS Identity and Access Management (IAM) roles, and an AWS Security Token Service (AWS STS) token.
- 2 The user navigates to the secure chat UI URL.
- The secure chat application is hosted on AWS Amplify.
- The page is returned with HTML, CSS, and JavaScript. The user can then input the configuration details for Amazon Cognito and Amazon Bedrock Agents.
- Upon configuration completion, the user is prompted to authenticate using **Amazon Cognito** with a username and password configured for them in the user pool.
- After successful authentication, **Amazon Cognito** identity pool will negotiate temporary credentials from **AWS STS**.
- Amazon Cognito identity pool passes temporary AWS credentials to the secure chat UI.
- Once authenticated, the user will see the secure chat UI prompt to interact with the Amazon Bedrock Agent that is configured.

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This architecture diagram shows a hierarchical Amazon Bedrock Agents system with one supervisor managing two subordinate agents, integrated with AWS Amplify and Amazon Cognito for authentication. This slide shows Steps 9-12.



- The FinOps Supervisor Agent evaluates each user's question and directs it to one of two specialized sub-agents: the Cost Analysis Agent or the Cost Optimization Agent.
- Each specialized agent (Cost Analysis or Cost Optimization) reviews its predefined set of actions to identify the correct procedure for answering the user's question.
- The action groups execute their respective Lambda functions to fetch data, whether that includes accessing the AWS Cost Explorer API or pulling recommendations from the AWS Trusted Advisor Cost Optimization pillar.
- The FinOps Supervisor Agent compiles all the gathered data into a final answer and sends it back to the secure chat UI visible to the user.