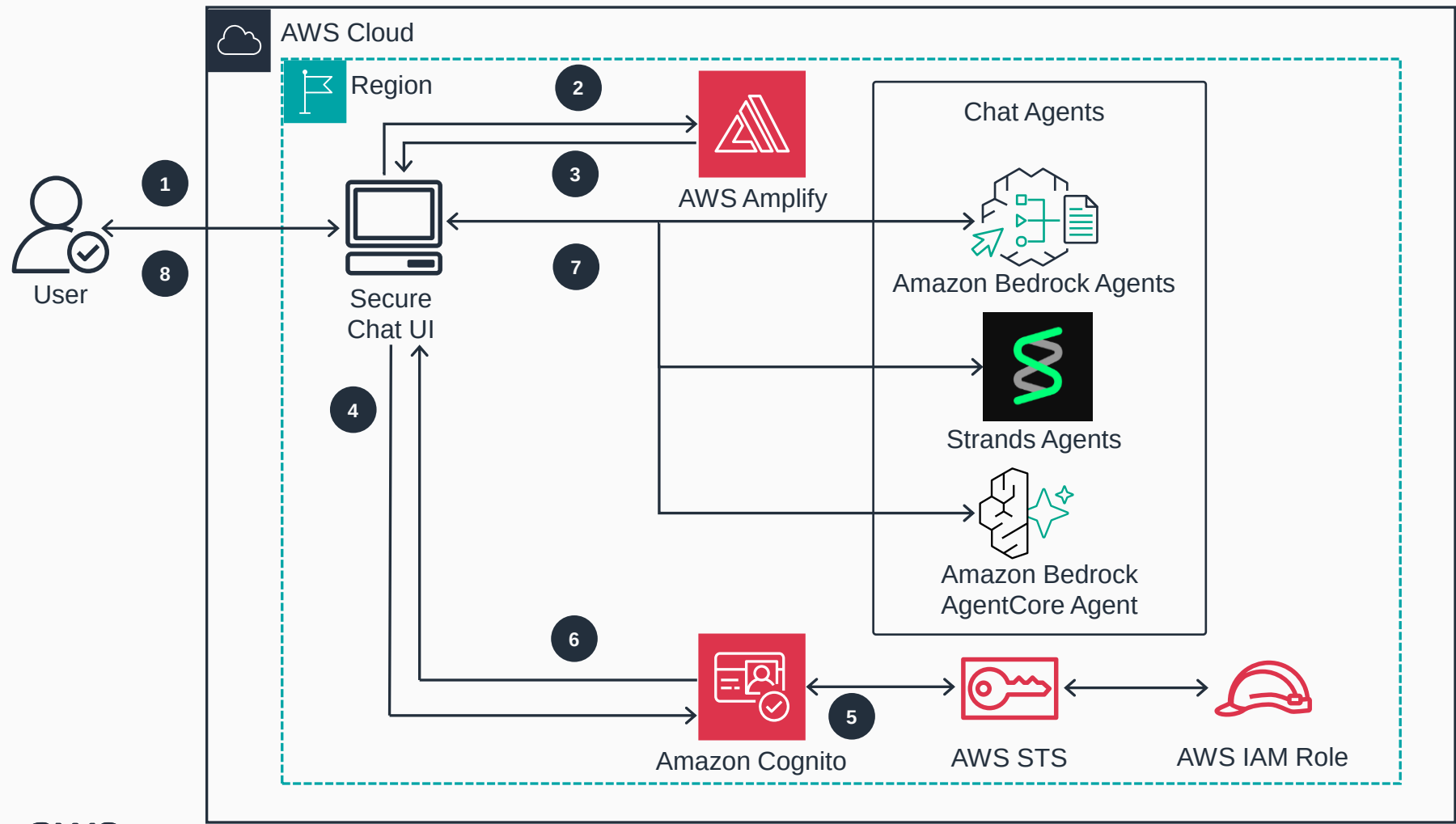


Guidance for Secure Chat User Interface for Amazon Bedrock

This reference architecture describes how to build a secure chat UI for Amazon Bedrock Agents on AWS, leveraging services like AWS Amplify and Amazon Cognito to deliver a secure, scalable solution.



- 1 The user navigates to the Secure Chat UI URL.
- 2 The Secure Chat UI makes a request to **AWS Amplify**.
- 3 **Amplify** returns a page with HTML, CSS, and JavaScript. The user inputs the configuration details for **Amazon Cognito** and **Amazon Bedrock Agents**, **Strands Agents**, or **Amazon Bedrock AgentCore Agents**. The user configures each Agent through a configuration interface, eliminating the need for repeated UI deployments.
- 4 Upon configuration completion, the user authenticates using **Amazon Cognito** with a username and password configured for them in the user pool.
- 5 After successful authentication, **Amazon Cognito Identity Pool** exchanges authentication tokens for temporary AWS credentials through **AWS Simple Token Service (AWS STS)** using the appropriate **AWS Identity and Access Management (IAM)** Role.
- 6 **Amazon Cognito Identity Pool** issues temporary AWS credentials to the Secure Chat UI.
- 7 Once authenticated, the user sees the Secure Chat UI chat prompt.
- 8 The user interacts with the configured **Amazon Bedrock Agent**, **Strands Agent**, or **Amazon Bedrock AgentCore Agent**.

