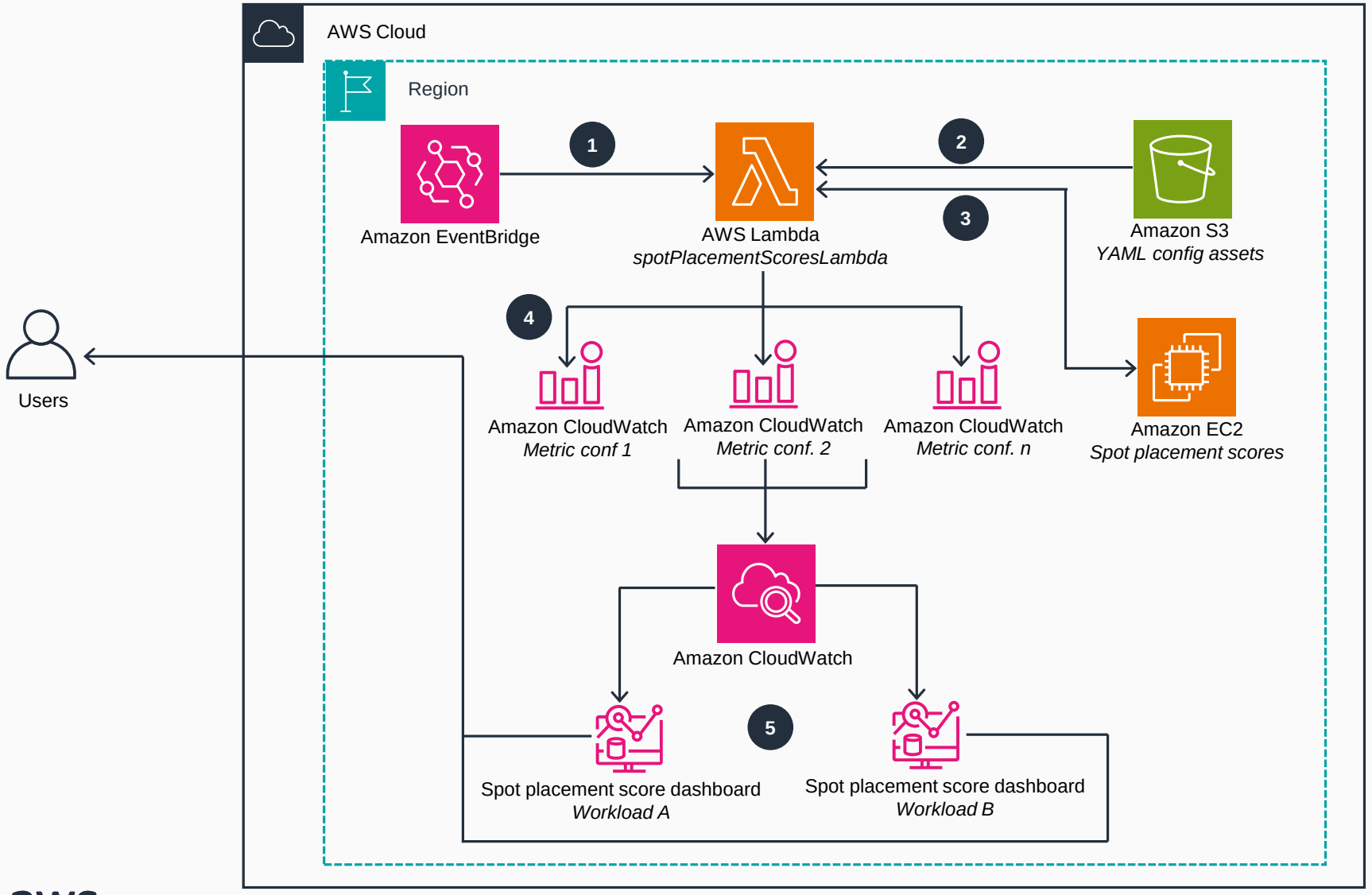
Guidance for Building a Spot Placement Score Tracker Dashboard on AWS

This architecture diagram shows how to automatically capture and monitor a Spot placement score for Amazon EC2 Spot Instances, indicating how likely Spot Instance requests will succeed in a particular AWS Region or Availability Zone.



1. An **Amazon EventBridge** cron expression invokes the **AWS Lambda** function *spotPlacementScoresLambda* every 5 minutes. This updates the Spot placement scores displayed on **Amazon CloudWatch** dashboards.
2. The **Lambda** function retrieves dashboard configuration files in YAML format from **Amazon Simple Storage Service (Amazon S3)**.
3. The **Lambda** function handles batches of metric requests. For each request, it queries the **Amazon Elastic Cloud Compute (Amazon EC2)** API's Spot placement score feature to obtain a Spot placement score.
4. The **Lambda** function receives Spot placement score responses. It then creates and stores metrics in **CloudWatch** based on a metrics configurations specified in the project Metric configuration (*Metric conf.*) file.
5. **CloudWatch** collects metrics for various workloads as specified in the *Metric conf.* file. These metrics populate the **CloudWatch** Spot placement score dashboards. Users can access these dashboards to optimize their **Amazon EC2** Spot Instance Requests.

Reviewed for technical accuracy March 29, 2024

AWS Reference Architecture