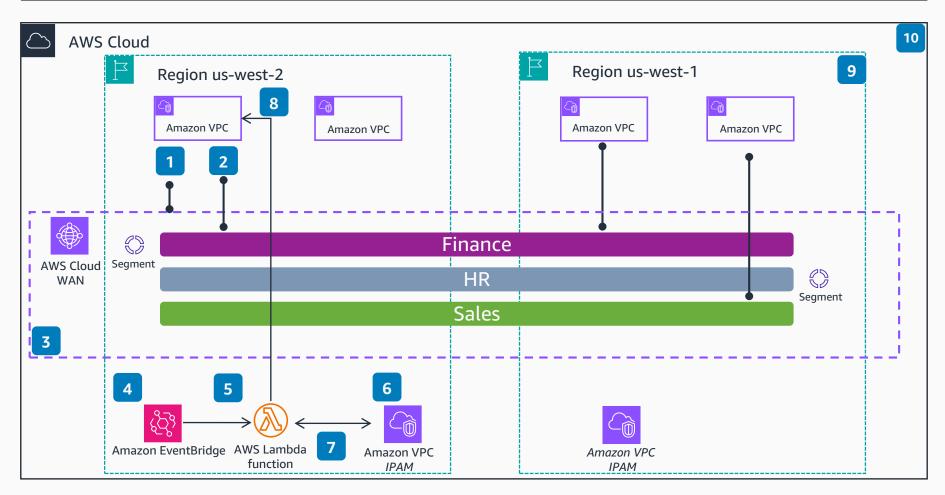
Guidance for Automating Amazon VPC Routing in a Global AWS Cloud WAN Deployment

This diagram shows how to create an end-to-end global routing cloud network. You can deploy an Amazon Virtual Private Cloud (Amazon VPC) in multiple AWS Regions and automate your global Amazon VPC routing with this event-driven architecture.



- A new **Amazon Virtual Private Cloud** (Amazon VPC) is attached to **AWS Cloud WAN**.
- A network administrator attaches metadata (for example: a key-value pair tag) on the Amazon VPC attachment. This ensures the Amazon VPC attachment lands in the right AWS Cloud WAN segment. For this Guidance, the key-value pair tag must be in the 'department:<department-name>' format. For example, department:Finance.
- AWS Cloud WAN generates an event when an Amazon VPC is attached into a segment. This event includes a JSON object that contains details such as 'attachment-id' and 'VPC-id.'
- Amazon EventBridge captures this event. An EventBridge rule invokes a Regional AWS Lambda function.
- **Lambda** accepts the event's JSON string as an input.
- Lambda checks Amazon VPC IP Address
 Manager (IPAM) for a pool that has the same
 tag value as the Amazon VPC attachment,
 provided in step 2. In this example, the expected
 tag is Finance.
- 7 IPAM returns the Classless Inter-Domain Routing (CIDR) associated with the IPAM pool to Lambda.
- Lambda adds a route to the Amazon VPC routing table with the CIDR that was obtained in step 7. The target for this route is the AWS Cloud WAN core network.
- The same steps can be applied to **Amazon VPCs** in a different Region.
- This completes the end-to-end routing for a multi-Region AWS Cloud WAN deployment