Amazon SageMaker Security Features

Amazon SageMaker – Build, Train, and Deploy

SageMaker security features

Authorization access

Defense in depth

End to end encryption

Dedicated infrastructure

Network controls

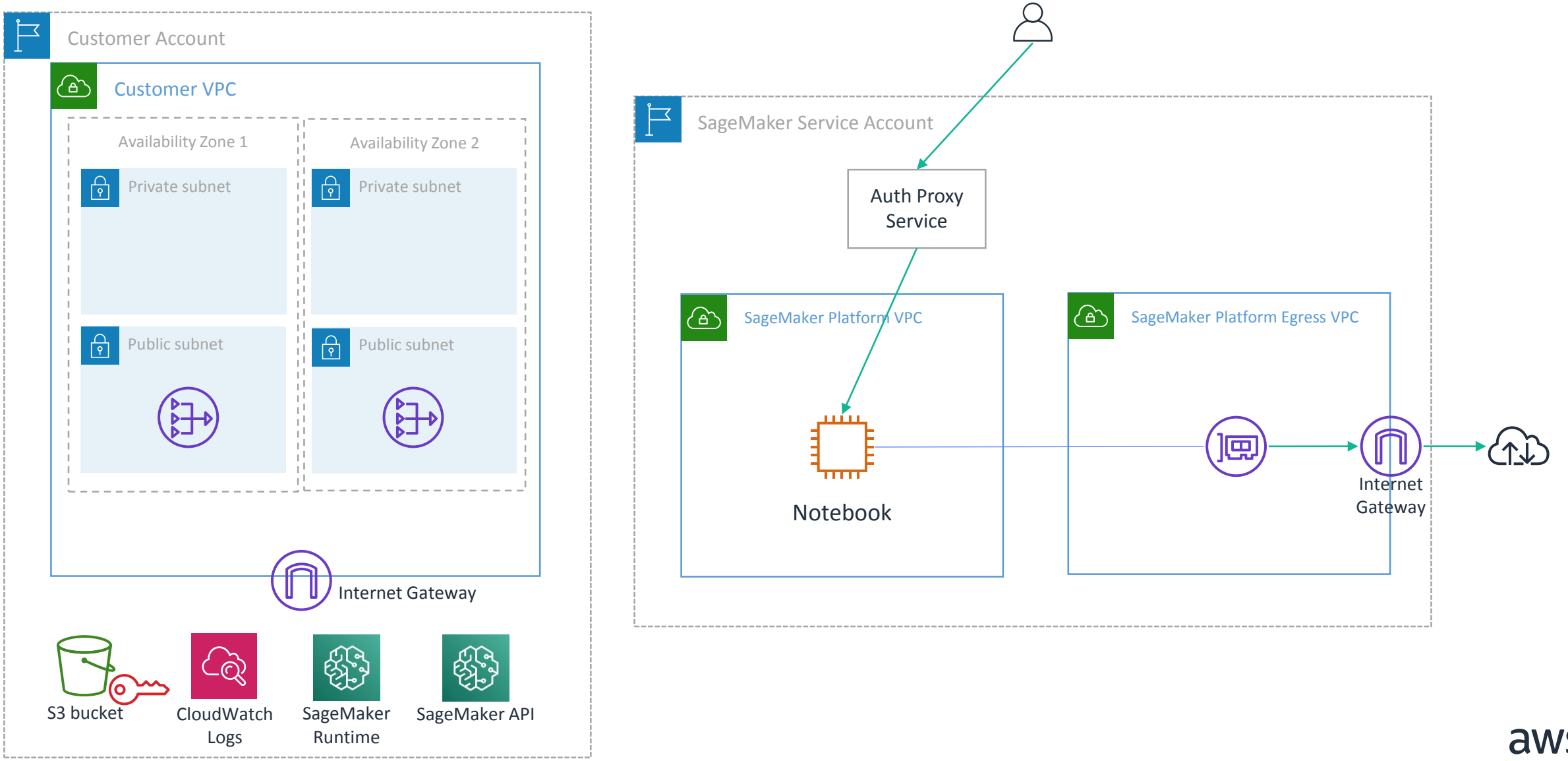
Private connectivity

OS customization

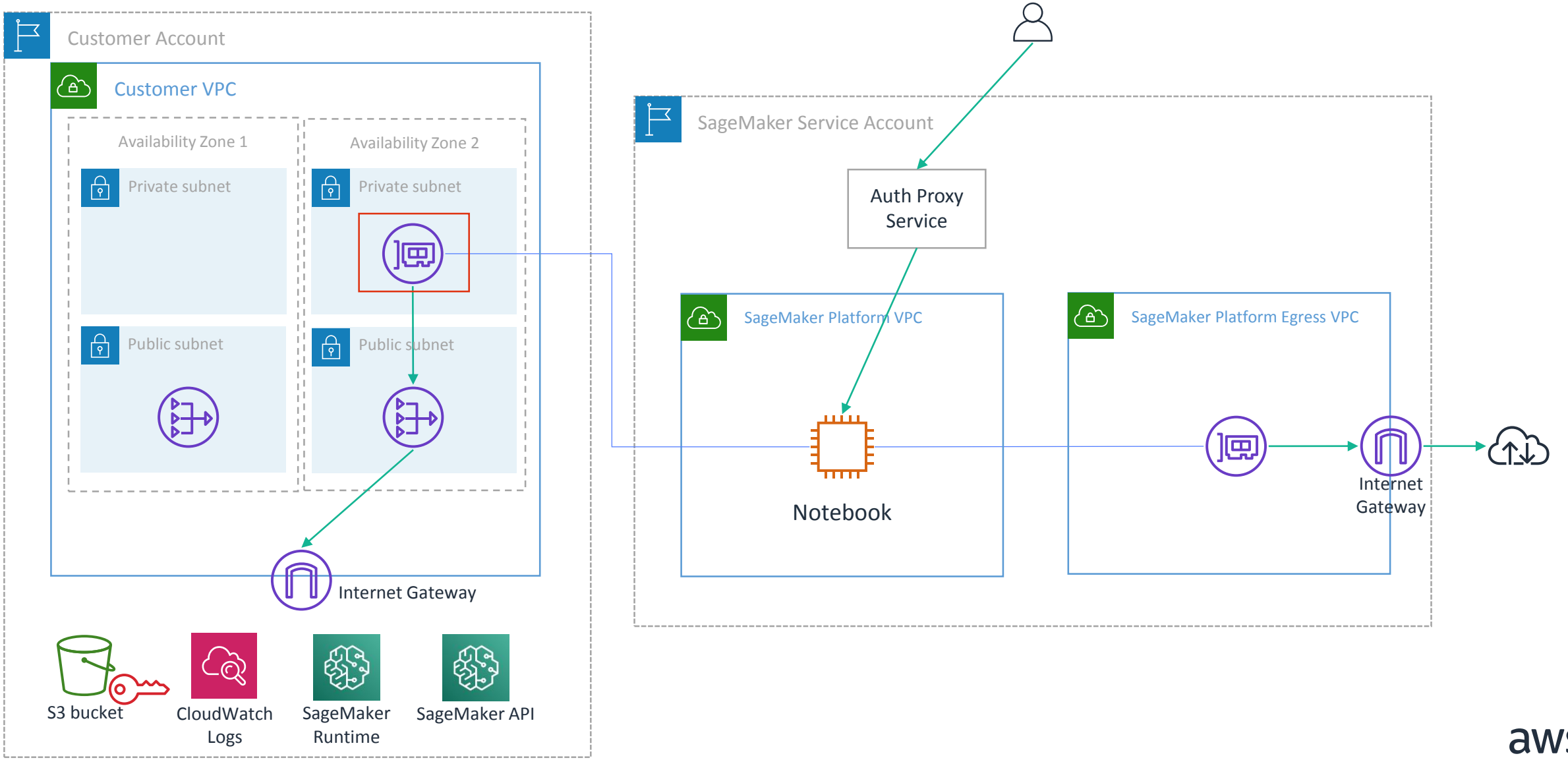
Logging and audit

SageMaker Networking

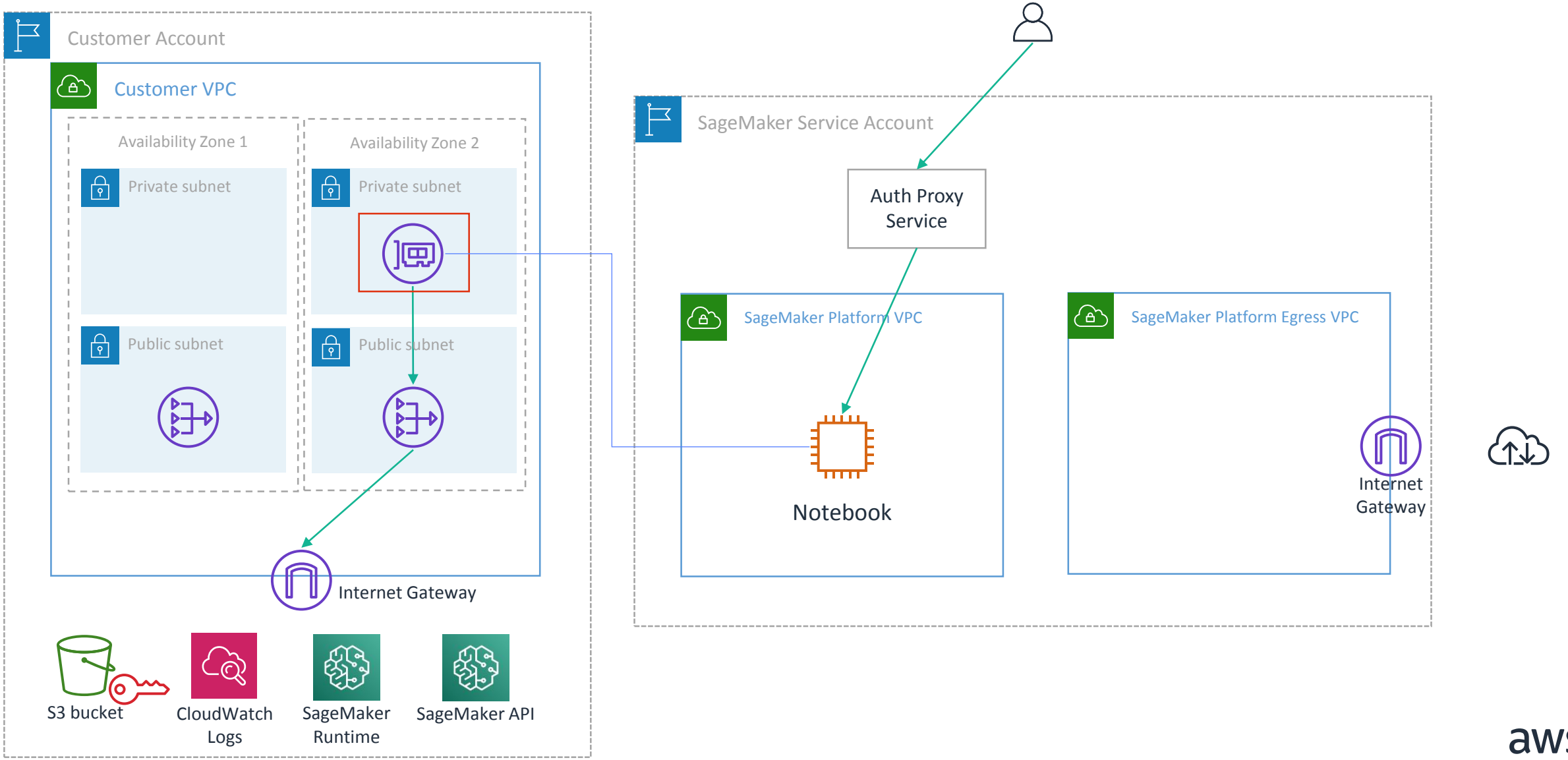
SageMaker notebook - SageMaker egress, no VPC connectivity



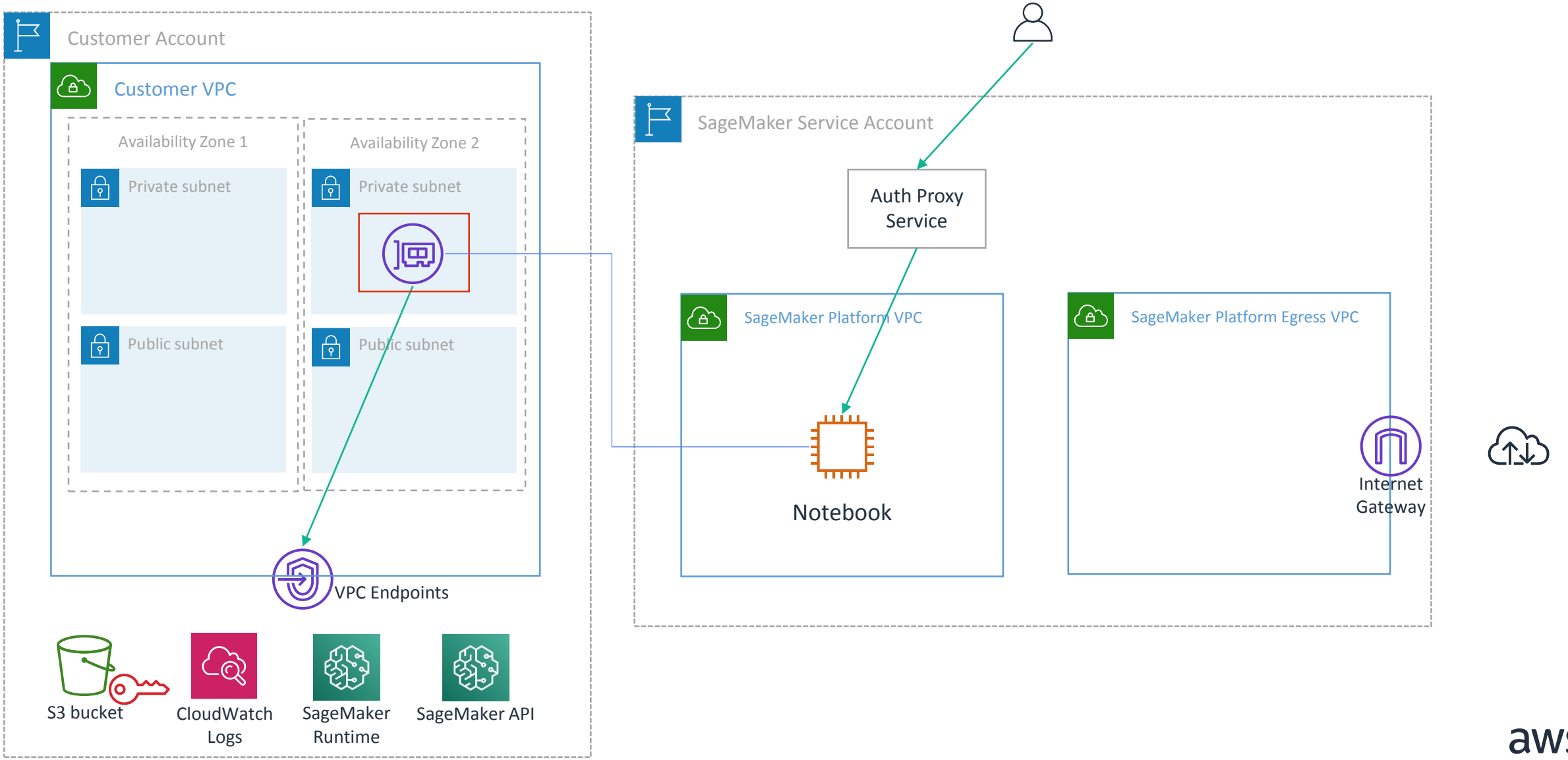
SageMaker notebook - SageMaker egress and VPC connectivity



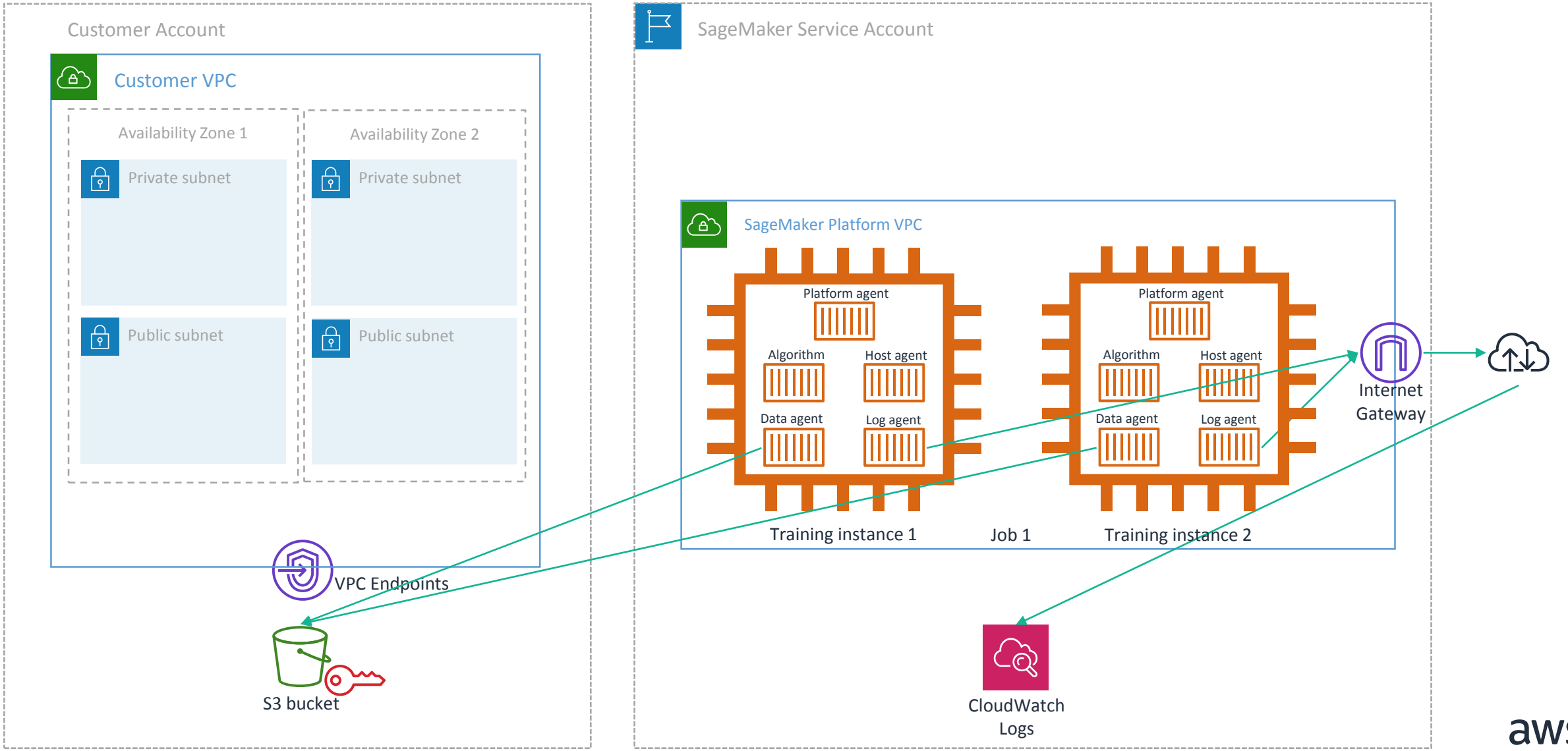
SageMaker notebook – no SageMaker egress, VPC connectivity



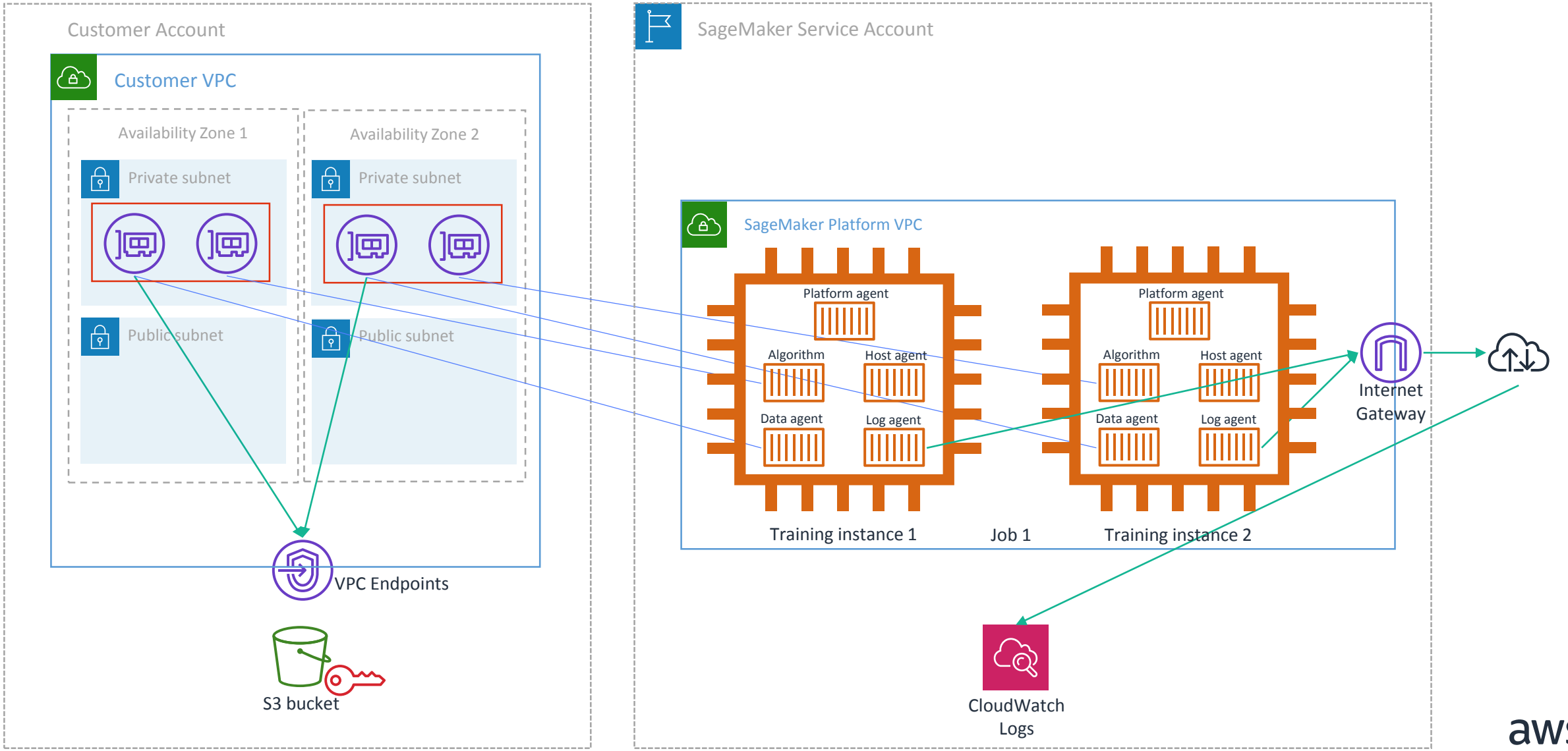
SageMaker notebook – VPC connectivity with VPC endpoints



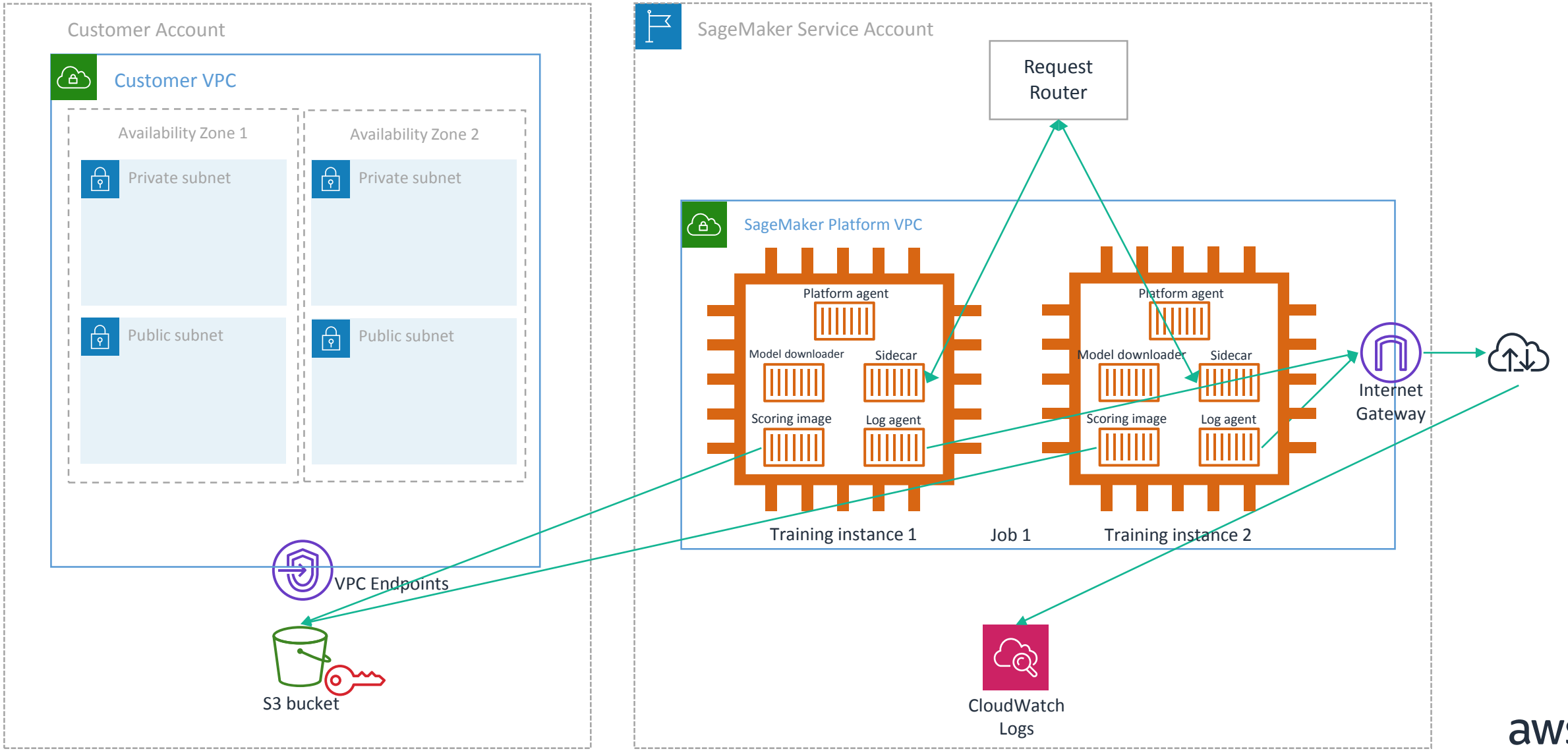
SageMaker training default deployment



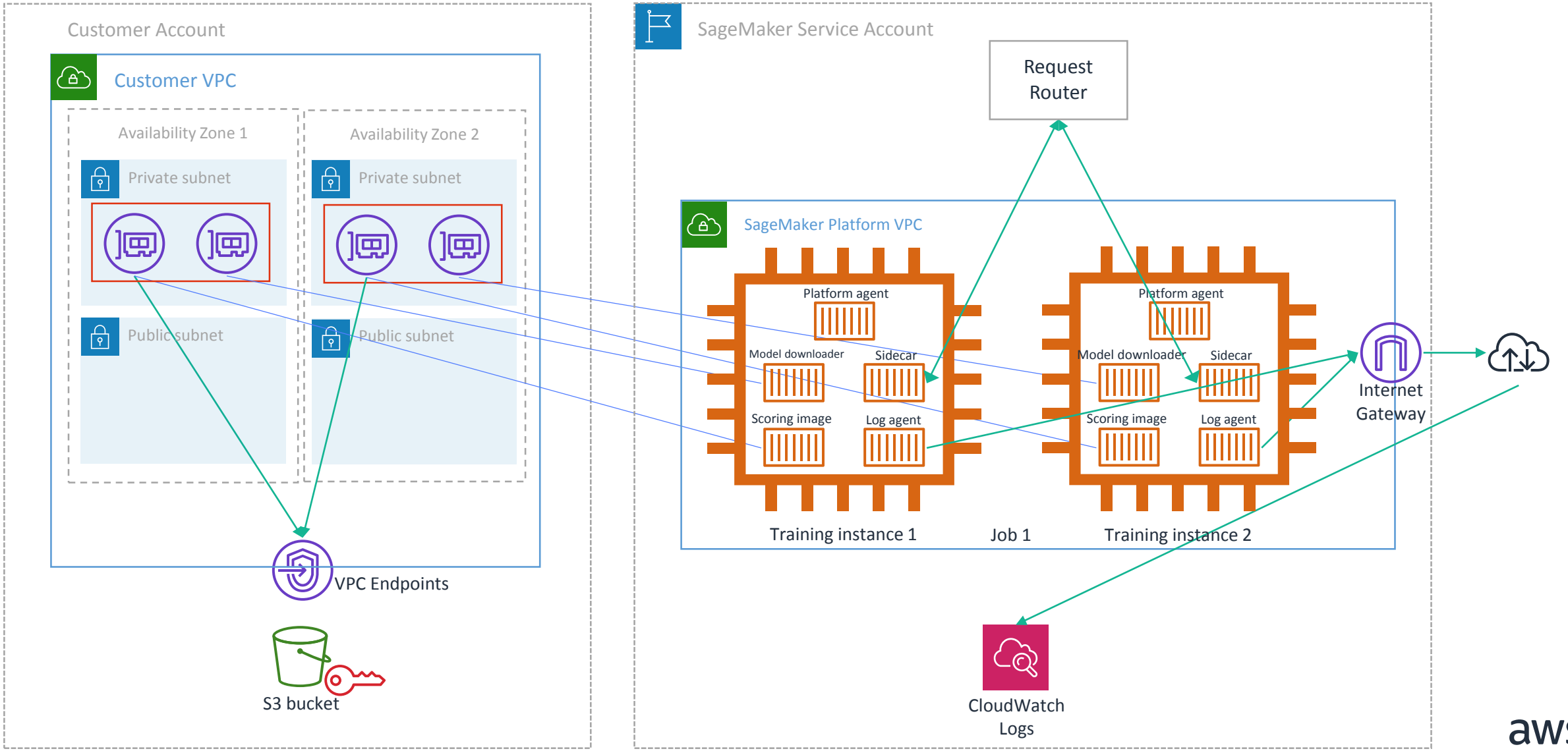
SageMaker training VPC deployment



SageMaker hosting default deployment



SageMaker hosting VPC deployment



Secure ML configurations

General

- Encrypt data at rest
- Encrypt data in transit

Network

- Network controls around compute
- Enforce AWS access using endpoint policies
- Private network connectivity using VPC endpoints
- No internet access
- Logging of all network traffic
- Secure access to environment without data egress

Data lake

- Disable public access to data lake
- Log access to data lake
- Make data lake read-only

Experimentation

- Private least-privilege access to notebook instances
- Apply IT policies to notebooks

Training

- Logging and monitoring of training

Hosting

- Authorize access to hosted models
- Private access to hosted models
- Logging and monitoring of models

Demonstration

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Thank you

aws.amazon.com/sagemaker