



Architecture diagrams for retail

WebSphere Commerce on AWS



WebSphere Commerce on AWS: Architecture diagrams for retail

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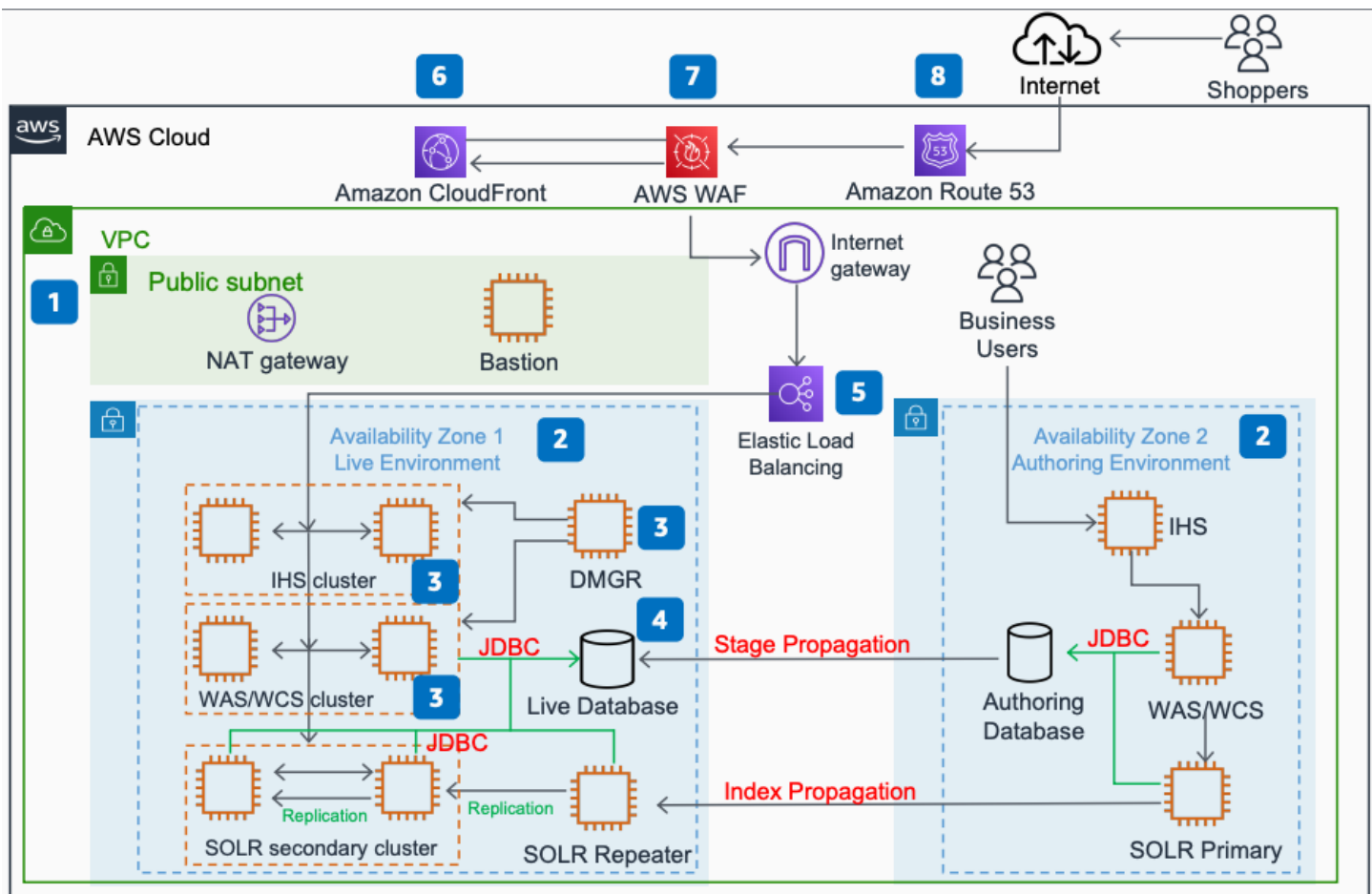
WebSphere Commerce on AWS

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With this architecture, you can lift and shift a legacy WebSphere Commerce (WCS) ecommerce website from on-premises to AWS. On-premises ecommerce platforms often struggle to scale during peak traffic periods. By migrating to AWS, you gain unlimited resources to scale when you need them. You use [Amazon CloudFront](#) for content delivery, [AWS WAF](#) for security, and Elastic Load Balancing for traffic distribution.

For more information, see [Three Steps for Modernizing Your DTC Ecommerce Website](#) on the AWS Blog.

WebSphere Commerce diagram



The following steps describe the architecture:

1. A single AWS Region and single [Amazon VPC](#) provide similar architecture to an on-premises data center setup.
2. Multiple Availability Zones provide resilience and separate the authoring workload from the live environment.
3. Out-of-the-box WebSphere Commerce clusters provide high availability and instance management through DMGR (deployment manager).
4. Use an AWS Partner solution to run the production workload on Oracle RAC. Alternatively, [create highly available IBM Db2 databases on AWS](#).
5. Elastic Load Balancing distributes network traffic to improve the scalability and availability of your applications across multiple instances.
6. CloudFront provides a highly secure and programmable content delivery network (CDN).
7. AWS WAF protects the ecommerce website against common web exploits.
8. [Amazon Route 53](#) provides DNS configuration.

Further reading

For additional information, see the following resources:

- [AWS Architecture Icons](#)
- [AWS Architecture Center](#)
- [AWS Well-Architected](#)

Diagram history

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Initial publication	Reference architecture diagram first published.	May 20, 2021

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