

AWS
re:Invent

WIN319-R

Best practices for advanced SQL Server storage architectures

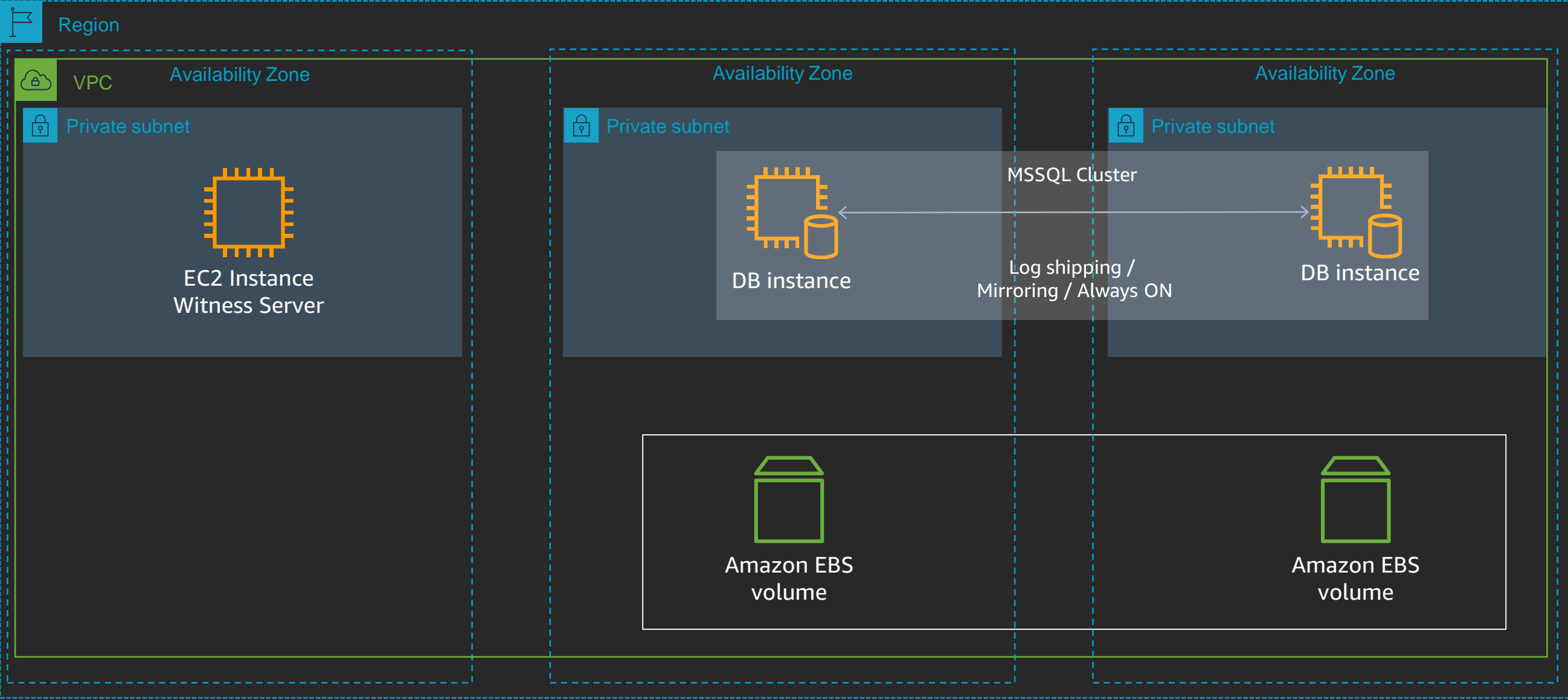
David Twizer

Specialist Solutions Architect
Amazon Web Services

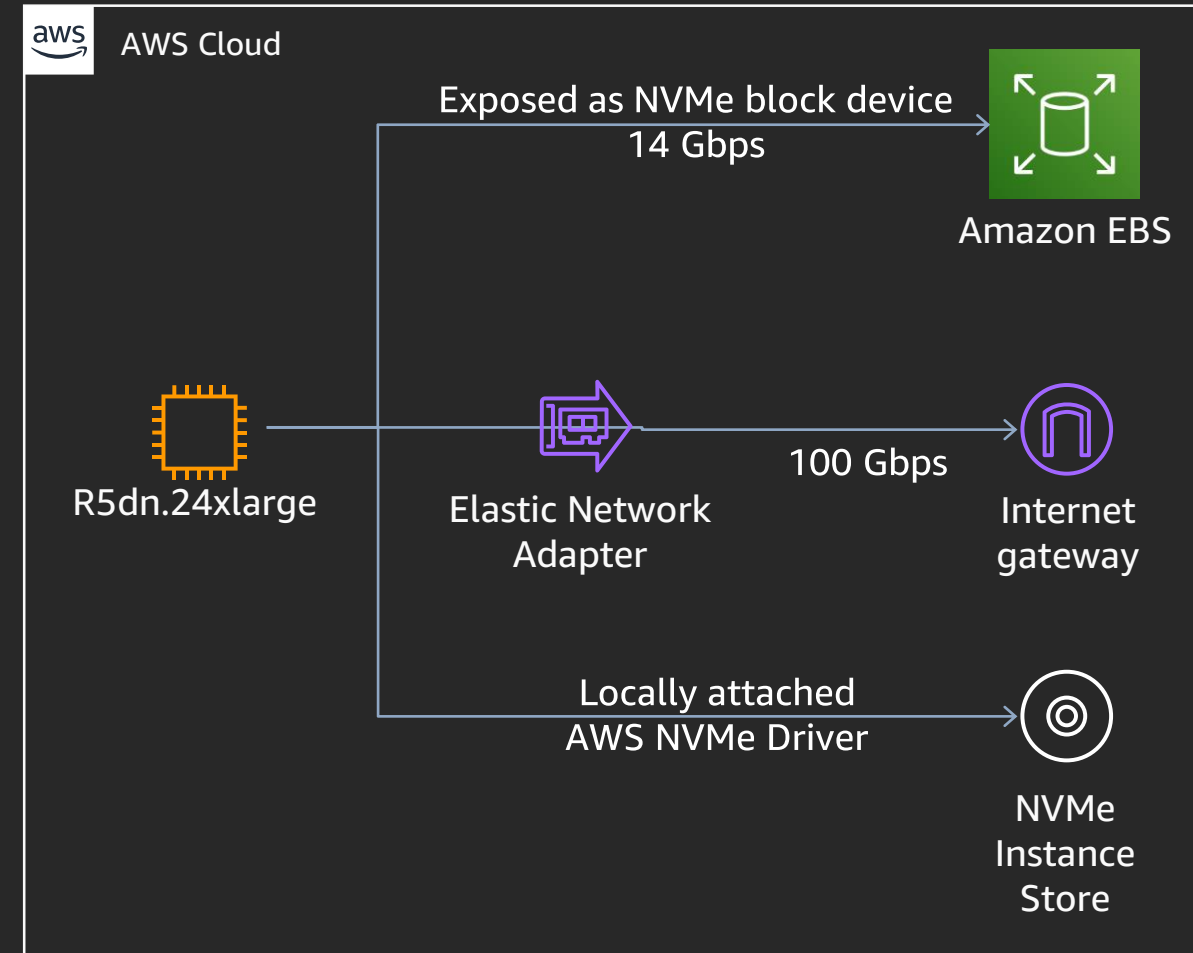
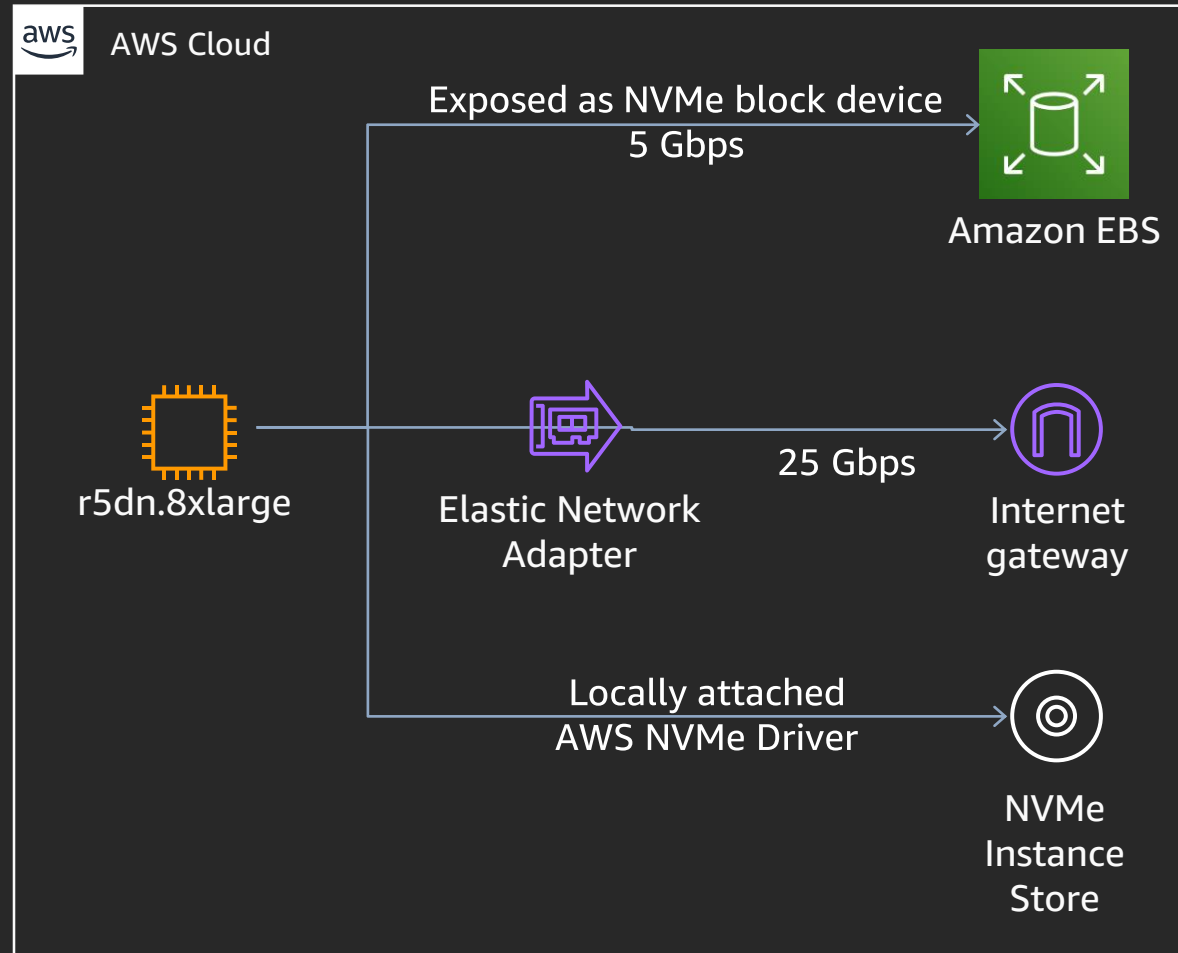
Siavash Irani

Specialist Solutions Architect
Amazon Web Services

Microsoft SQL Server Architecture in AWS



Instance storage and Amazon EBS



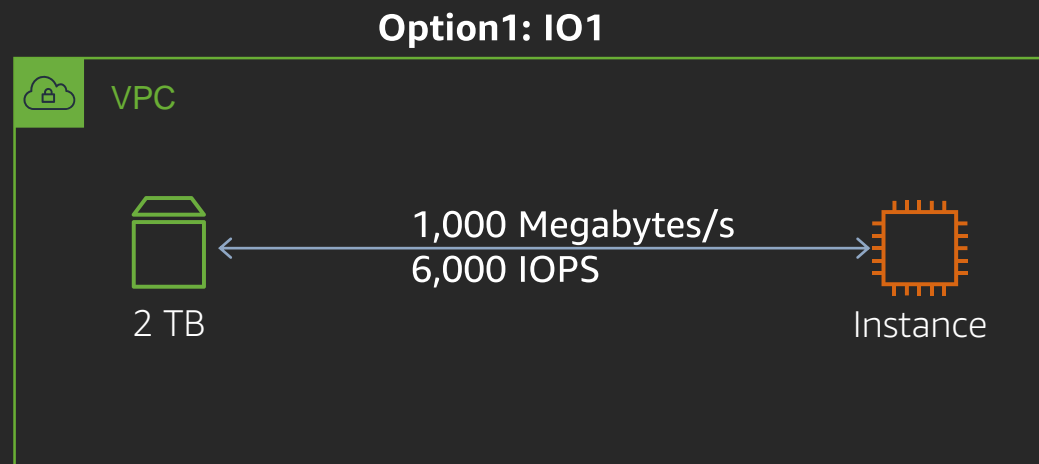
EBS Types

	General Purpose SSD (gp2)	Provisioned IOPS SSD (io1)	Throughput Optimized HDD (st1)	Cold HDD (sc1)
Max IOPS per Volume	16,000	64,000	500	250
Max Throughput per Volume	250 Megabytes / Second	1,000 Megabytes / Second	500 Megabytes / Second	250 Megabytes / Second
Max IOPS per Instance	80,000			
Max Throughput per Instance	1,750 Megabytes / Second			

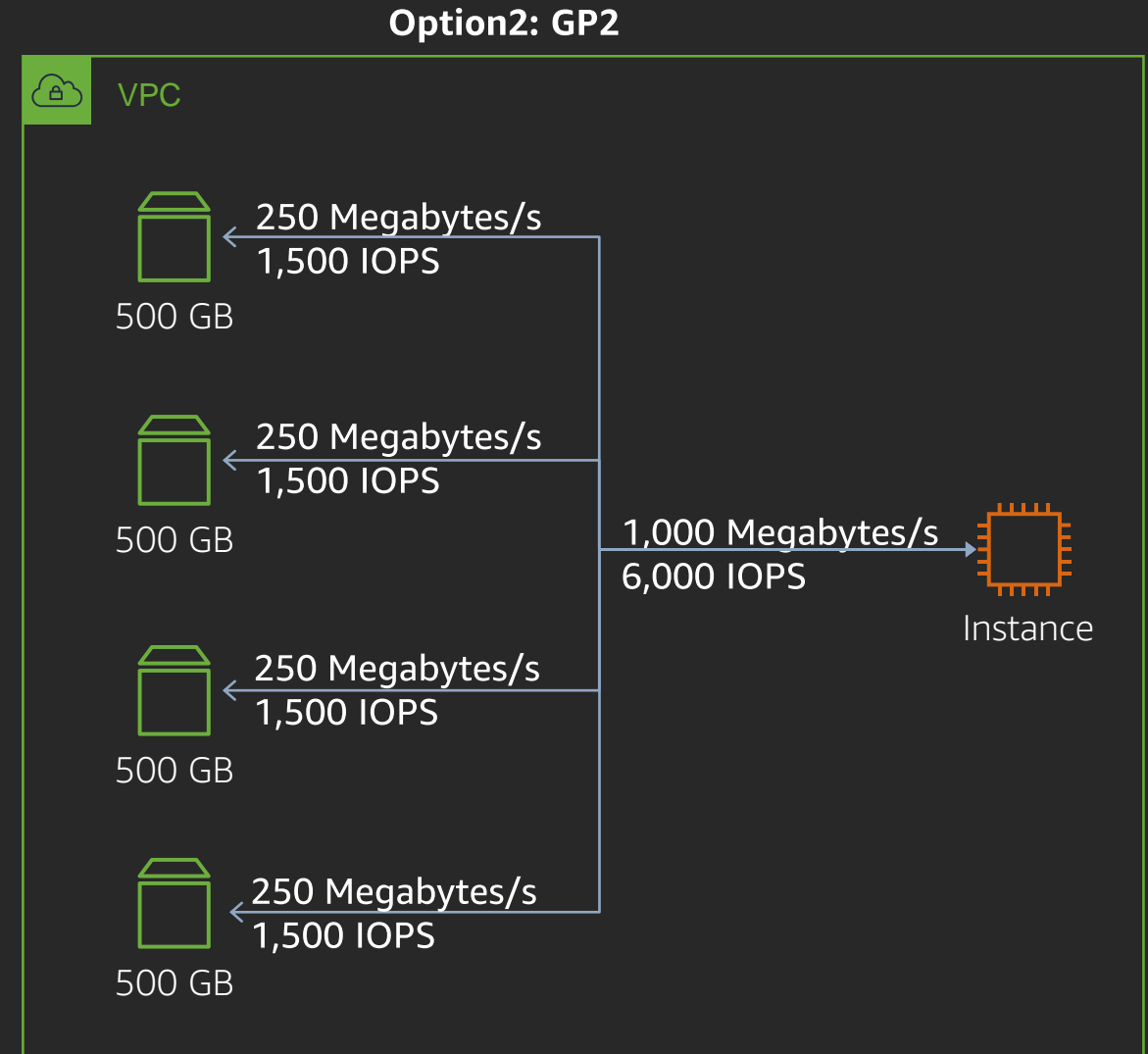
GP2 Striping?

Requirements:

- 2 TB Data volume
- 6,000 IOPS

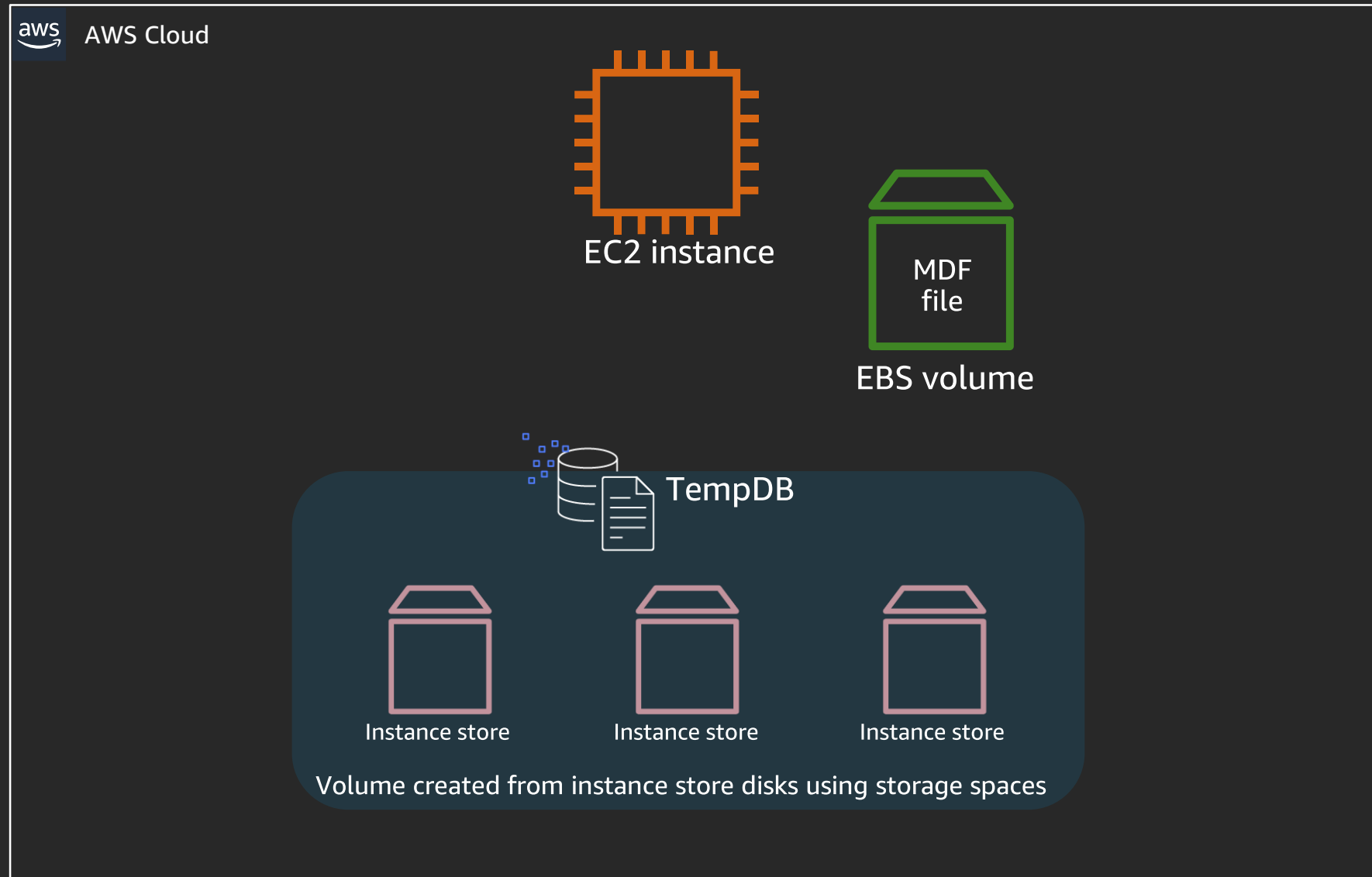


EBS Cost: \$640 (N.Virginia)

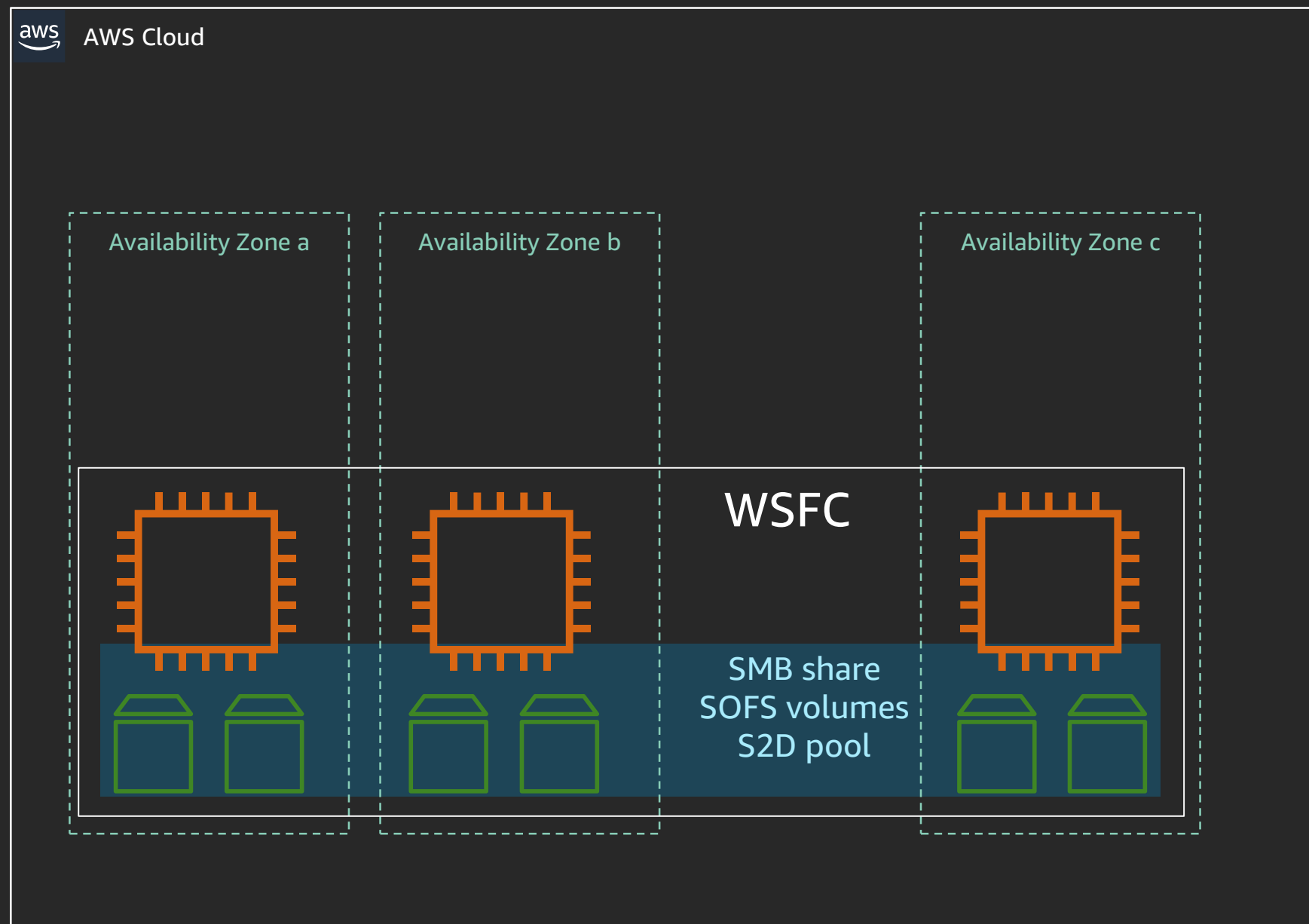


EBS Cost: \$200 (N.Virginia)

Storage space (not direct) for the TempDB

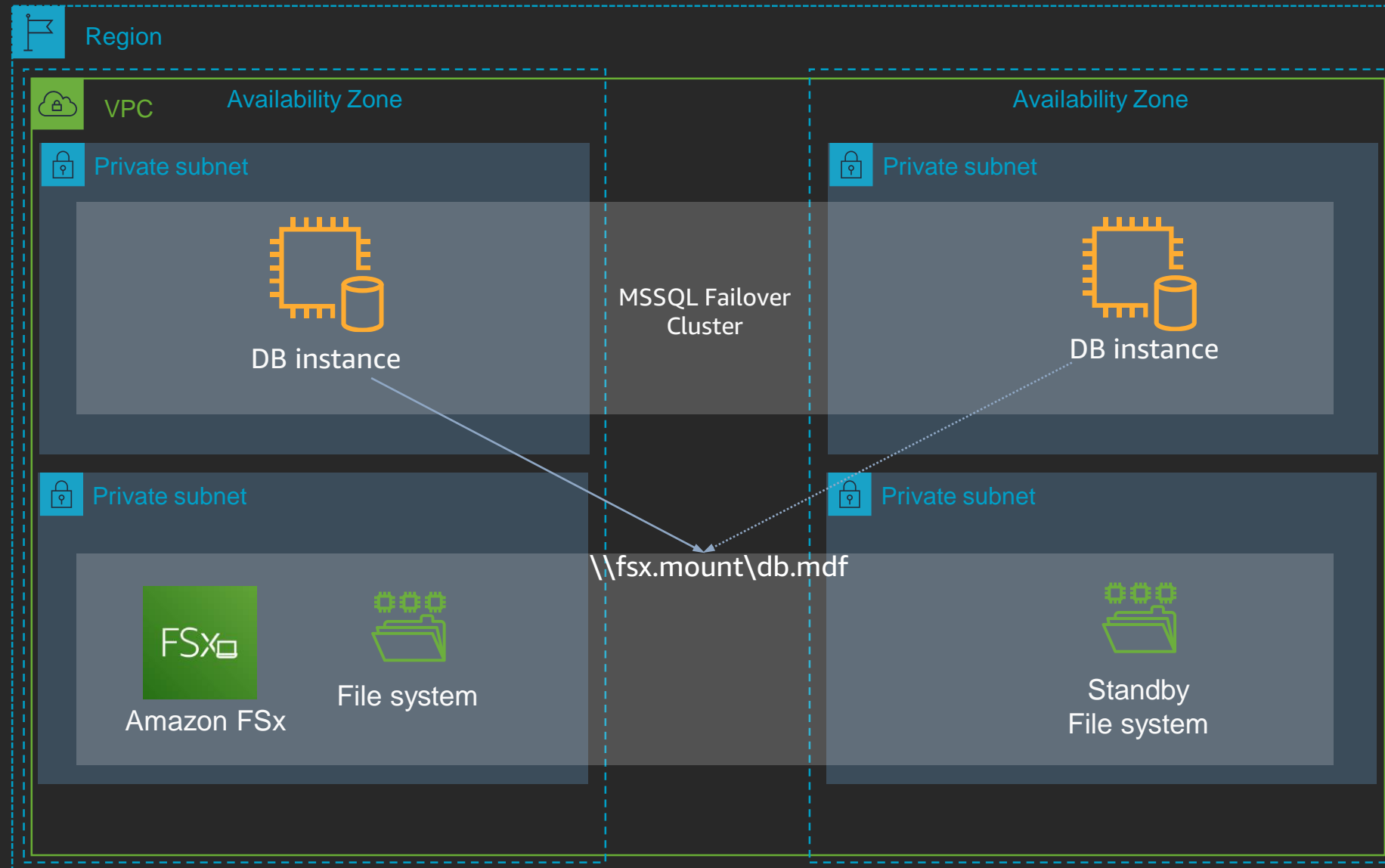


Storage Spaces Direct (S2D)



NEW

Amazon FSx as Shared Storage for MSSQL



Thank you!

David Twizer

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