AWS re:Invent

WIN319-R1

Best practices for advanced SQL Server storage architectures

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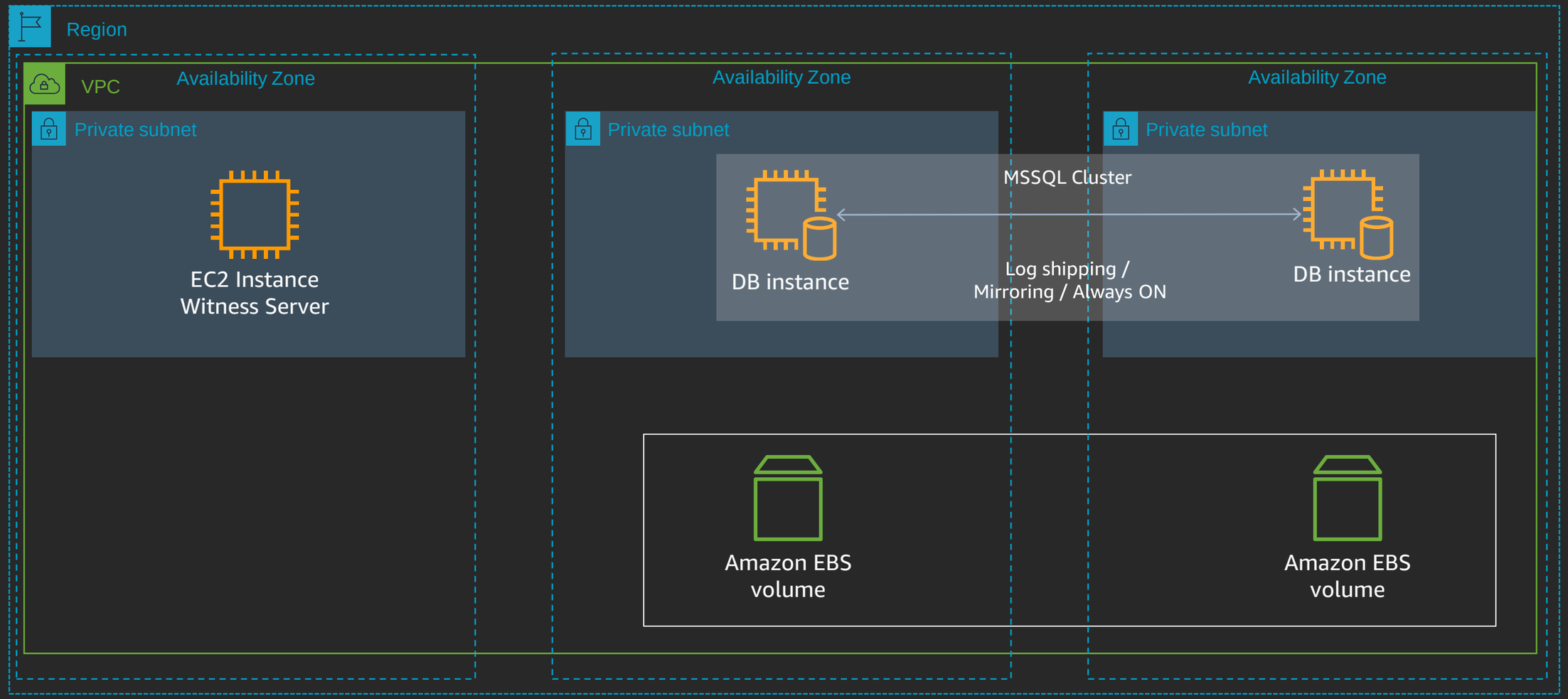
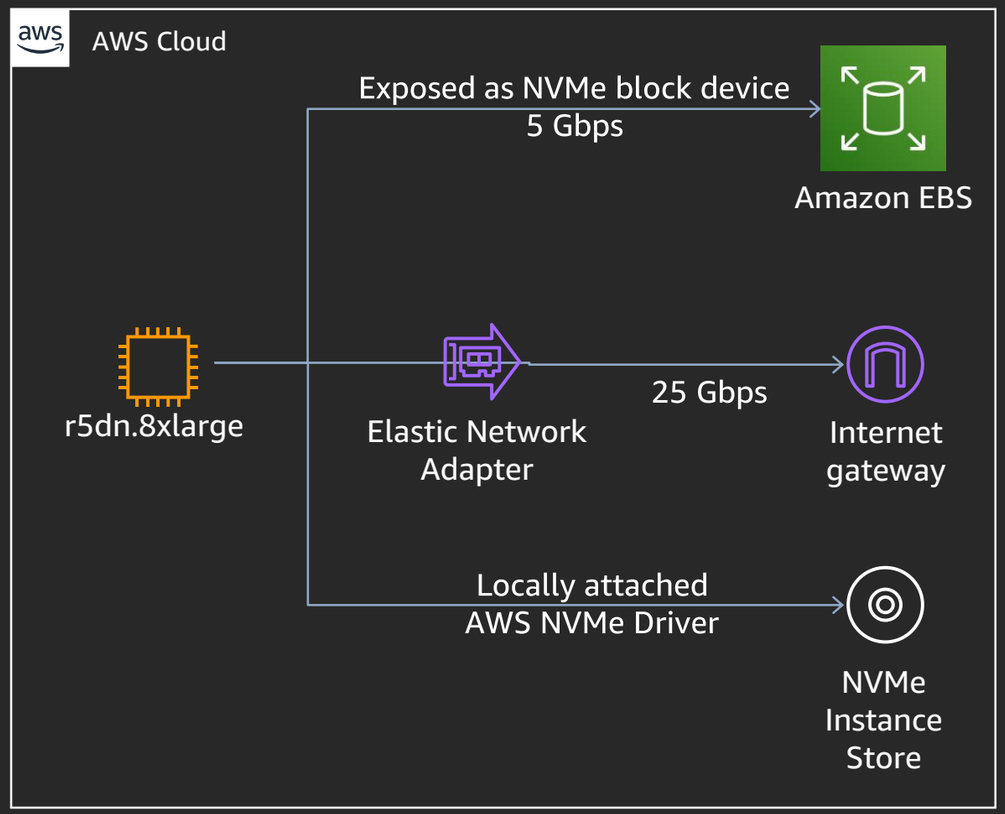
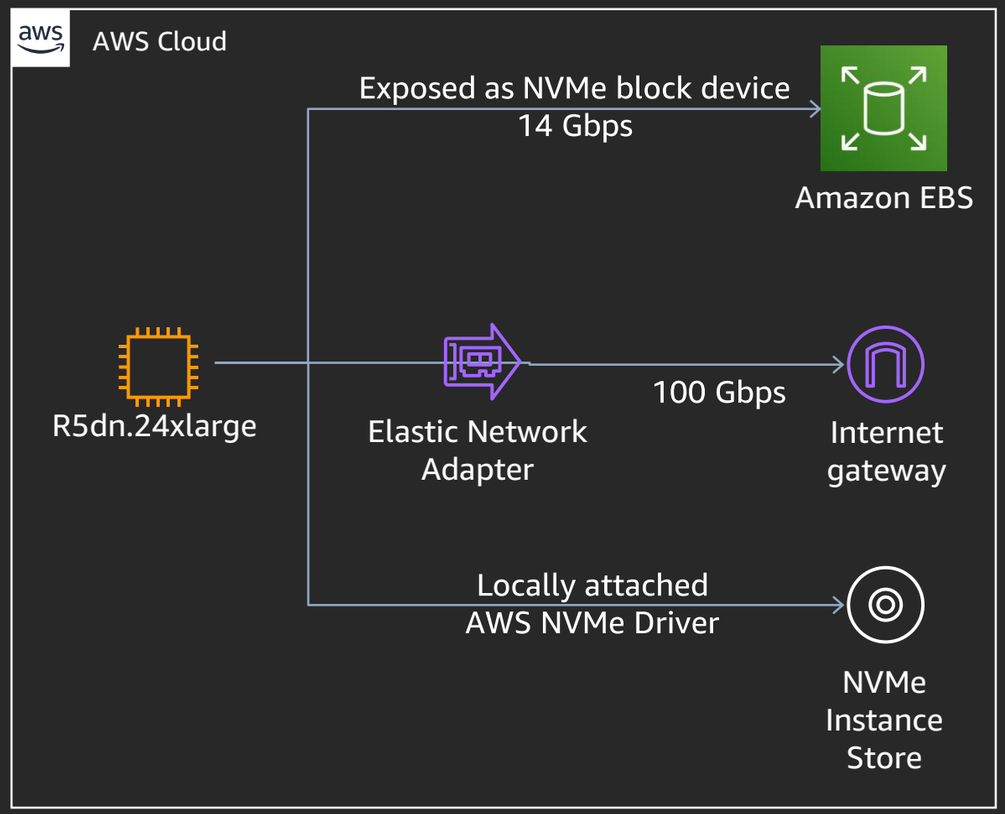
Microsoft SQL Server Architecture in AWS



Instance storage and Amazon EBS





EBS Types

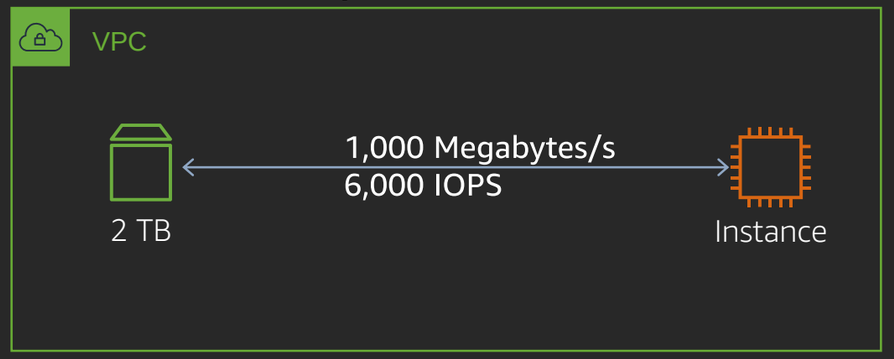
	General Purpose SSD (gp2)	Provisioned IOPS SSD (io1)	Throughput Optimized HDD (st1)	Cold HDD (sc1)
Max IOPS per Volume	16,000	64,000	500	250
Max Throughput per Volume	250 Megabytes / Second	1,000 Megabytes / Second	500 Megabytes / Second	250 Megabytes / Second
Max IOPS per Instance	80,000			
Max Throughput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

GP2 Striping?

Requirements:

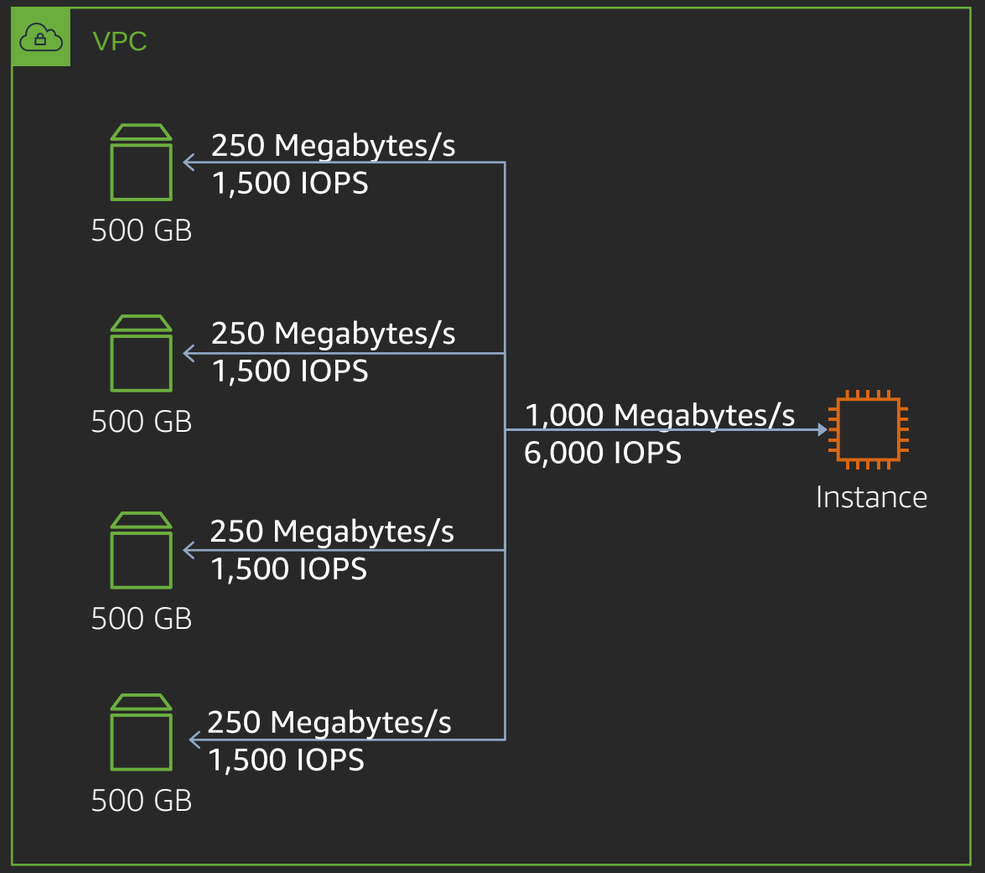
- 2 TB Data volume
- 6,000 IOPS

Option1: IO1



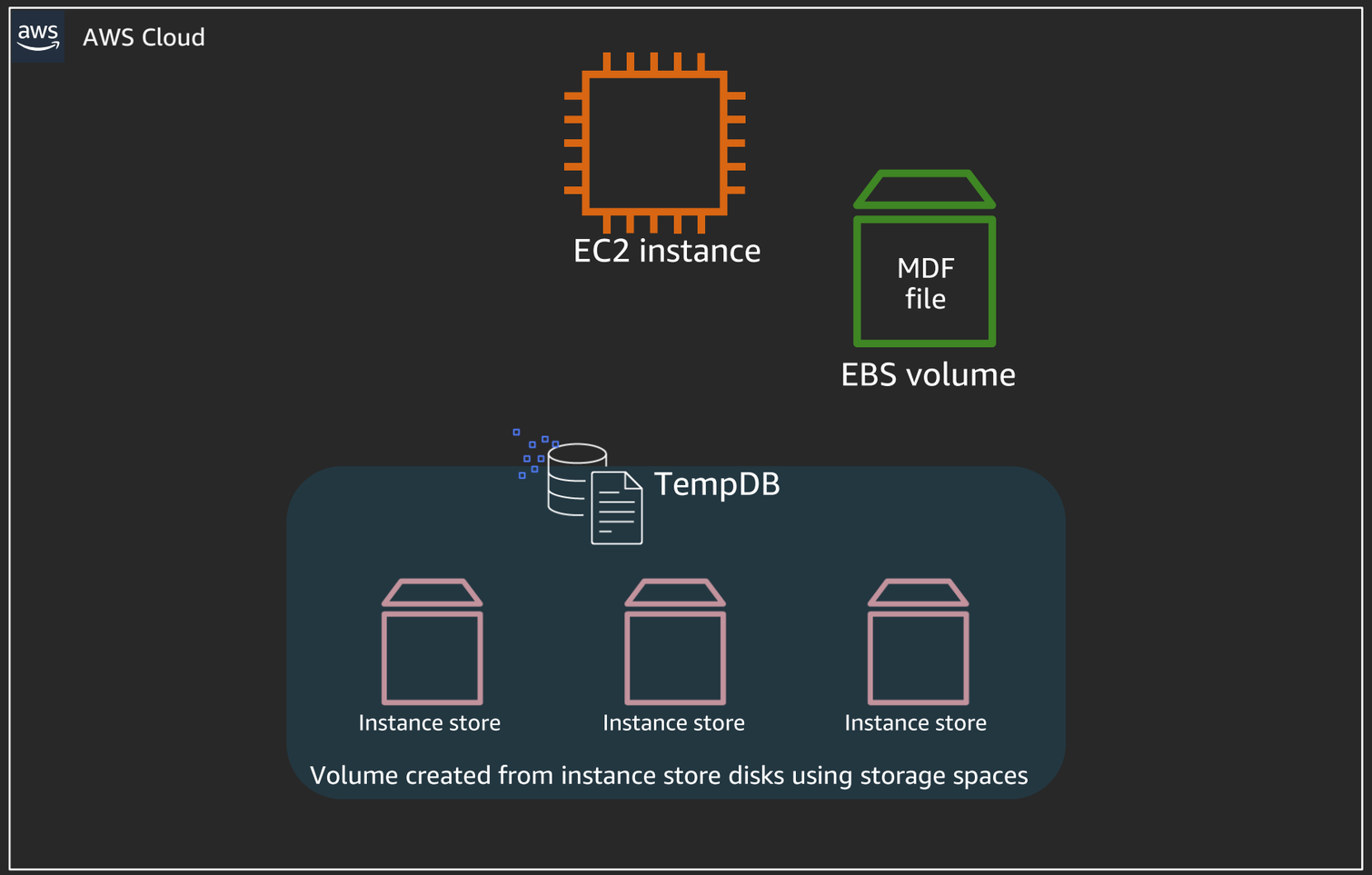
EBS Cost: $640 (N.Virginia)

Option2: GP2

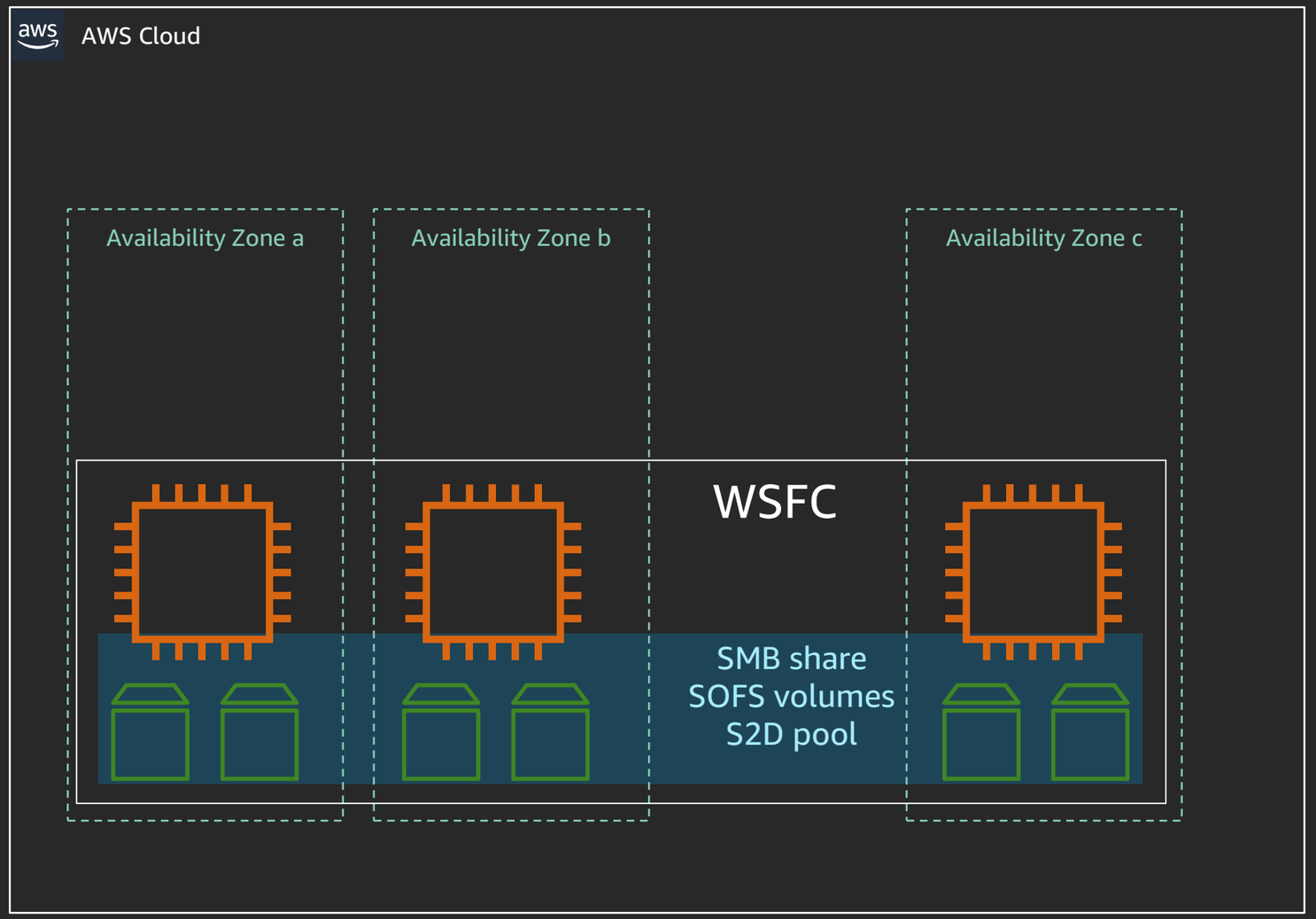


EBS Cost: $200 (N.Virginia)

Storage space (not direct) for the TempDB

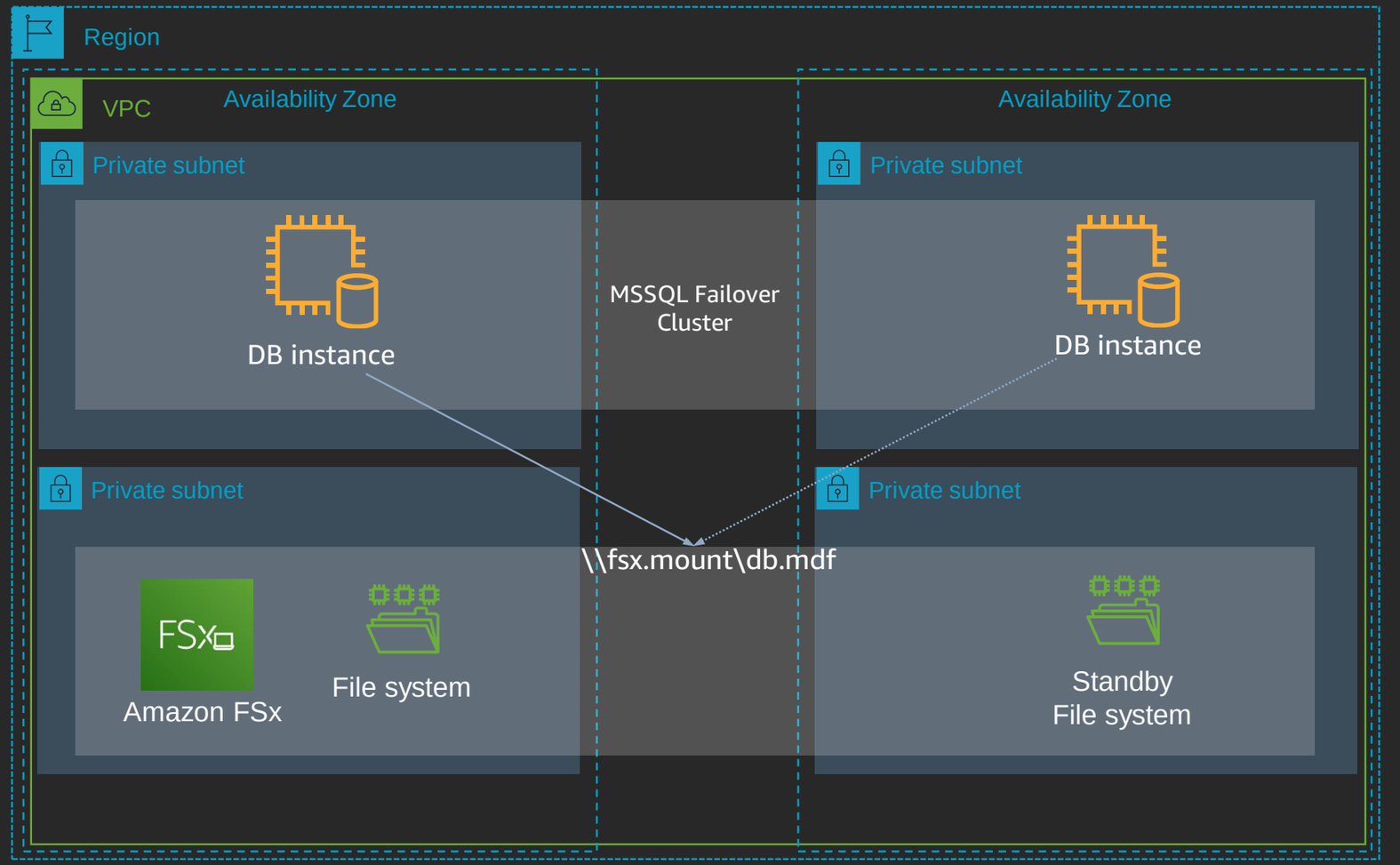


Storage Spaces Direct (S2D)



NEW

Amazon FSx as Shared Storage for MSSQL



Thank you!

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