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https://docs.microsoft.com/en-us/azure/azure-databricks/quickstart-create-databricks-workspace-portal New QuestionCase Study 2 Requirements BusinessThe company identifies the following business requirements:You must transfer all images and customer data to cloud storage and remove on-premises servers. You must develop an analytical processing solution for transforming customer data.You must develop an image object and color tagging solution. Capital expenditures must be minimized. Cloud resource costs must be minimized.TechnicalThe solution has the following technical requirements:Tagging data must be uploaded to the cloud from the New York office location.Tagging data must be replicated to regions that are geographically close to company office locations. Image data must be stored in a single data store at minimum cost.Customer data must be analyzed using managed Spark clusters. Power BI must be used to visualize transformed customer data. All data must be backed up in case disaster recovery is required.Security and optimizationAll cloud data must be encrypted at rest and in transit. The solution must support: parallel processing of customer datahyper-scale storage of imagesglobal region data replication of processed image data You need to recommend a solution for storing customer data. What should you recommend?A.   Azure SQL Data WarehouseB.   Azure Stream AnalyticsC.   Azure DatabricksD.   Azure SQL DatabaseCorrect Answer: CExplanationExplanation/Reference:Explanation:From the scenario:Customer data must be analyzed using managed Spark clusters.All cloud data must be encrypted at rest and in transit. The solution must support: parallel processing of customer data. References:

https://www.microsoft.com/developerblog/2019/01/18/running-parallel-apache-spark-notebook-workloads-on-azure-databricks/New QuestionCase Study 2 Requirements BusinessThe company identifies the following business requirements:You must transfer all images and customer data to cloud storage and remove on-premises servers. You must develop an analytical processing solution for transforming customer data.You must develop an image object and color tagging solution. Capital expenditures must be minimized.Cloud resource costs must be minimized.TechnicalThe solution has the following technical requirements:Tagging data must be uploaded to the cloud from the New York office location.Tagging data must be replicated to regions that are geographically close to company office locations. Image data must be stored in a single data store at minimum cost.Customer data must be analyzed using managed Spark clusters. Power BI must be used to visualize transformed customer data. All data must be backed up in case disaster recovery is required.Security and optimizationAll cloud data must be encrypted at rest and in transit. The solution must support: parallel processing of customer datahyper-scale storage of images global region data replication of processed image dataYou need to design a backup solution for the processed customer data. What should you include in the design?A.　AzCopyB.　AdlCopyC.　Geo-RedundancyD.　Geo-ReplicationCorrect Answer: CExplanationExplanation/Reference:Explanation:Scenario: All data must be backed up in case disaster recovery is required.Geo-redundant storage (GRS) is designed to provide at least 99.99999999999999% (16 9's) durability of objects over a given year by replicating your data to a secondary region that is hundreds of miles away from the primary region. If your storage account has GRS enabled, then your data is durable even in the case of a complete regional outage or a disaster in which the primary region isn't recoverable.References:

https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-grsNew QuestionCase Study 2 Requirements BusinessThe company identifies the following business requirements:You must transfer all images and customer data to cloud storage and remove on-premises servers. You must develop an analytical processing solution for transforming customer data.You must develop an image object and color tagging solution. Capital expenditures must be minimized.Cloud resource costs must be minimized.TechnicalThe solution has the following technical requirements:Tagging data must be uploaded to the cloud from the New York office location.Tagging data must be replicated to regions that are geographically close to company office locations. Image data must be stored in a single data store at minimum cost.Customer data must be analyzed using managed Spark clusters. Power BI must be used to visualize transformed customer data. All data must be backed up in case disaster recovery is required.Security and optimizationAll cloud data must be encrypted at rest and in transit. The solution must support: parallel processing of customer datahyper-scale storage of imagesglobal region data replication of processed image dataYou plan to use an Azure SQL data warehouse to store the customer data. You need to recommend a disaster recovery solution for the data warehouse. What should you include in the recommendation?A.　AzCopyB.　Read-only replicasC.　AdlCopyD.　Geo-Redundant backupsCorrect Answer: DExplanationExplanation/Reference:Explanation:

https://docs.microsoft.com/en-us/azure/sql-data-warehouse/backup-and-restoreNew QuestionCase Study 2 Requirements BusinessThe company identifies the following business requirements:You must transfer all images and customer data to cloud storage and remove on-premises servers. You must develop an analytical processing solution for transforming customer data.You must develop an image object and color tagging solution. Capital expenditures must be minimized.Cloud resource costs must be minimized.TechnicalThe solution has the following technical requirements:Tagging data must be uploaded to the cloud from the New York office location.Tagging data must be replicated to regions that are geographically close to company office locations. Image data must be stored in a single data store at minimum cost.Customer data must be analyzed using managed Spark clusters. Power BI must be used to visualize transformed customer data. All data must be backed up in case disaster recovery is required. Security and optimizationAll cloud data must be encrypted at rest and in transit. The solution must support: parallel processing of customer datahyper-scale storage of imagesglobal region data replication of processed image data Drag and Drop QuestionYou need to design the image processing solution to meet the optimization requirements for image tag data.What should you configure? To answer, drag the appropriate setting to the correct drop targets. Each source may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.NOTE: Each correct selection is worth one point.Select and Place:Correct Answer:ExplanationExplanation/Reference:Explanation:Tagging data must be uploaded to the cloud from the New York office location.Tagging data must be replicated to regions that are geographically close to company office locations.New QuestionCase Study 2 Requirements BusinessThe company identifies the following business requirements:You must transfer all images and customer data to cloud storage and remove on-premises servers. You must develop an analytical processing solution for transforming customer data.You must develop an image object and color tagging solution. Capital expenditures must be minimized.Cloud resource costs must be minimized.TechnicalThe solution has the following technical requirements:Tagging data must be uploaded to the cloud from the New York office location.Tagging data must be replicated to regions that are geographically close to company office locations. Image data must be stored in a single data store at minimum cost.Customer data must be analyzed using

managed Spark clusters. Power BI must be used to visualize transformed customer data. All data must be backed up in case disaster recovery is required.Security and optimizationAll cloud data must be encrypted at rest and in transit. The solution must support: parallel processing of customer datahyper-scale storage of imagesglobal region data replication of processed image data Hotspot QuestionYou need to design the image processing and storage solutions.What should you recommend? To answer, select the appropriate configuration in the answer area. NOTE: Each correct selection is worth one point.Hot Area:Correct Answer: ExplanationExplanation/Reference:Explanation:From the scenario:The company identifies the following business requirements:You must transfer all images and customer data to cloud storage and remove on-premises servers. You must develop an image object and color tagging solution.The solution has the following technical requirements:Image data must be stored in a single data store at minimum cost. All data must be backed up in case disaster recovery is required.All cloud data must be encrypted at rest and in transit. The solution must support: hyper-scale storage of imagesReferences:

https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/batch-processing

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-service-tier-hyperscaleNew QuestionCase Study 2 Requirements BusinessThe company identifies the following business requirements:You must transfer all images and customer data to cloud storage and remove on-premises servers. You must develop an analytical processing solution for transforming customer data.You must develop an image object and color tagging solution. Capital expenditures must be minimized.Cloud resource costs must be minimized.TechnicalThe solution has the following technical requirements:Tagging data must be uploaded to the cloud from the New York office location.Tagging data must be replicated to regions that are geographically close to company office locations. Image data must be stored in a single data store at minimum cost.Customer data must be analyzed using managed Spark clusters. Power BI must be used to visualize transformed customer data. All data must be backed up in case disaster recovery is required.Security and optimizationAll cloud data must be encrypted at rest and in transit. The solution must support: parallel processing of customer datahyper-scale storage of imagesglobal region data replication of processed image data Drag and Drop QuestionYou need to design the encryption strategy for the tagging data and customer data.What should you recommend? To answer, drag the appropriate setting to the correct drop targets. Each source may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.NOTE: Each correct selection is worth one point.Select and Place:Correct Answer:ExplanationExplanation/Reference:Explanation:All cloud data must be encrypted at rest and in transit.Box 1: Transparent data encryptionEncryption of the database file is performed at the page level. The pages in an encrypted database are encrypted before they are written to disk and decrypted when read into memory.Box 2: Encryption at restEncryption at Rest is the encoding (encryption) of data when it is persisted.References:

https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/transparent-data-encryption?view=sql-server-2017 https://docs.microsoft.com/en-us/azure/security/azure-security-encryption-atrestNew QuestionCase Study 3 Background Current environmentThe company has the following virtual machines (VMs):RequirementsStorage and processingYou must be able to use a file system view of data stored in a blob.You must build an architecture that will allow Contoso to use the DB FS filesystem layer over a blob store. The architecture will need to support data files, libraries, and images. Additionally, it must provide a web-based interface to documents that contain runnable command, visualizations, and narrative text such as a notebook. CONT_SQL3 requires an initial scale of 35000 IOPS.CONT_SQL1 and CONT_SQL2 must use the vCore model and should include replicas. The solution must support 8000 IOPS. The storage should be configured to optimized storage for database OLTP workloads.MigrationYou must be able to independently scale compute and storage resources.You must migrate all SQL Server workloads to Azure. You must identify related machines in the on-premises environment, get disk size data usage information.Data from SQL Server must include zone redundant storage.You need to ensure that app components can reside on-premises while interacting with components that run in the Azure public cloud. SAP data must remain on-premises.The Azure Site Recovery (ASR) results should contain per-machine data.Business requirementsYou must design a regional disaster recovery topology.The database backups have regulatory purposes and must be retained for seven years.CONT_SQL1 stores customers sales data that requires ETL operations for data analysis. A solution is required that reads data from SQL, performs ETL, and outputs to Power BI. The solution should use managed clusters to minimize costs. To optimize logistics, Contoso needs to analyze customer sales data to see if certain products are tied to specific times in the year.The analytics solution for customer sales data must be available during a regional outage.Security and auditingContoso requires all corporate computers to enable Windows Firewall. Azure servers should be able to ping other Contoso Azure servers.Employee PII must be encrypted in memory, in motion, and at rest. Any data encrypted by SQL Server must support equality searches, grouping, indexing, and joining on the encrypted data.Keys must be secured by using hardware security modules (HSMs). CONT_SQL3 must not communicate over the default portsCostAll solutions must minimize cost and resources.The organization does not want any unexpected charges.The data engineers must set the SQL Data Warehouse

compute resources to consume 300 DWUs.CONT_SQL2 is not fully utilized during non-peak hours. You must minimize resource costs for during non-peak hours.You need to design a solution to meet the SQL Server storage requirements for CONT_SQL3. Which type of disk should you recommend?A.   Standard SSD Managed DiskB.   Premium SSD Managed DiskC.   Ultra SSD Managed DiskCorrect Answer: CExplanationExplanation/Reference:Explanation:CONT_SQL3 requires an initial scale of 35000 IOPS. Ultra SSD Managed Disk OfferingsThe following table provides a comparison of ultra solid-state-drives (SSD) (preview), premium SSD, standard SSD, and standard hard disk drives (HDD) for managed disks to help you decide what to use.References: **https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disks-types**New QuestionCase Study 3 BackgroundCurrent environmentThe company has the following virtual machines (VMs):RequirementsStorage and processingYou must be able to use a file system view of data stored in a blob.You must build an architecture that will allow Contoso to use the DB FS filesystem layer over a blob store. The architecture will need to support data files, libraries, and images. Additionally, it must provide a web-based interface to documents that contain runnable command, visualizations, and narrative text such as a notebook.CONT_SQL3 requires an initial scale of 35000 IOPS.CONT_SQL1 and CONT_SQL2 must use the vCore model and should include replicas. The solution must support 8000 IOPS. The storage should be configured to optimized storage for database OLTP workloads.MigrationYou must be able to independently scale compute and storage resources.You must migrate all SQL Server workloads to Azure. You must identify related machines in the on-premises environment, get disk size data usage information.Data from SQL Server must include zone redundant storage.You need to ensure that app components can reside on-premises while interacting with components that run in the Azure public cloud. SAP data must remain on-premises.The Azure Site Recovery (ASR) results should contain per-machine data.Business requirementsYou must design a regional disaster recovery topology.The database backups have regulatory purposes and must be retained for seven years.CONT_SQL1 stores customers sales data that requires ETL operations for data analysis. A solution is required that reads data from SQL, performs ETL, and outputs to Power BI. 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You must minimize resource costs for during non-peak hours.You need to recommend an Azure SQL Database service tier. What should you recommend?A.   Business Critical B.   General Purpose C.   PremiumD.   StandardE.   BasicCorrect Answer: CExplanationExplanation/Reference:Explanation:The data engineers must set the SQL Data Warehouse compute resources to consume 300 DWUs. Note: There are three architectural models that are used in Azure SQL Database:General Purpose/Standard Business Critical/Premium HyperscaleIncorrect Answers:A: Business Critical service tier is designed for the applications that require low-latency responses from the underlying SSD storage (1-2 ms in average), fast recovery if the underlying infrastructure fails, or need to off-load reports, analytics, and read-only queries to the free of charge readable secondary replica of the primary database.References: **https://docs.microsoft.com/en-us/azure/sql-database/sql-database-service-tier-business-critical**New QuestionCase Study 3 BackgroundCurrent environmentThe company has the following virtual machines (VMs):RequirementsStorage and processingYou must be able to use a file system view of data stored in a blob.You must build an architecture that will allow Contoso to use the DB FS filesystem layer over a blob store. 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SAP data must remain on-premises.The Azure Site Recovery (ASR) results should contain per-machine data.Business requirementsYou must design a regional disaster recovery topology.The database backups have regulatory purposes and must be retained for seven years.CONT_SQL1 stores customers sales data that requires ETL operations for data analysis. A solution is required that reads data from SQL, performs ETL, and outputs to Power BI. The solution should use managed clusters to minimize costs. To optimize logistics, Contoso needs to analyze customer

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