Exam : **070-473**

Title : Designing and Implementing Cloud Data Platform Solutions

Version : DEMO

1. Case Study:

General Overview
Proseware, Inc is a software engineering company that has 100 employees. Proseware has sales, marketing, accounts, human resources IT, and development departments.
The IT department has on team dedicated to managing the internal resources and one team dedicated to managing customer resources, which are located in the company's hosting environment.
Proseware developer websites, basic web apps, and custom web apps. The websites and the apps are hosted and maintained in the hosting environment of Prosware.

Physical Location
Proseware has two offices located in Seattle and Montreal. The Seattle Office contains all of the hardware required to host its customers' websites, web apps, and databases. The Seattle office contains the IT team for the hosting environment.
The Montreal office contains all of the hardware required to host the company's internal applications, databases, and websites.
Each office connects directly to the Internet. Testing reveals that the minimum latency from the offices to Microsoft Azure is 20 ms.

Internal Microsoft SQL Server Environment
Proseware uses a custom customer relationship management (CRM) application.
The Internal Microsoft SQL Server environment contains two physical servers named CRM-A and CRM-B. Both servers run SQL Servers 2012 standard and host databases for the CRM application.
CRM-A hosts the principal instance and CRM-B hosts the mirrored instance of the CRM database.
CRM-A also hosts databases for several other applications that are used by the company's internal applications.
CRM-A has a quad core processor and 12GB of RAM. CRM-B has a dual core processor and 8 GB of RAM.

Custom Web Applications Environment
Some Proseware customers request custom web-based applications that require more than just databases, such as SQL Server Integration Services (SSIS) and CLR stored procedures.
Proseware uses a Hyper-V server named Host1 has four instances of SQL Server 2014 Enterprise in the host operating system. The instances are mirrored on a server named Host2.
Host1 also hosts four virtual machines named VM1, VM2, VM3 VM4. VM1 has SQL Server 2005 Standard installed VM2 has SQL Server 2005 Enterprise Edition installed. VM3 has SQL Server
Windows 2008 Standard Edition installed. VM4 has SEL Server 2008 R2 Standard Edition installed.
Host1 uses a SAN to store all of the data and log files for the four SQL Server instances and the four virtual machines.

Websites and Basic Web Apps Environment
Proseware has two physical serves named WebServer1 and WebData1 hosts basic web apps and websites for its customers. EebData1 has a database for each website and each basic web app thatProsware hosts. WebData1 has four cores and 8 GB of RAM.

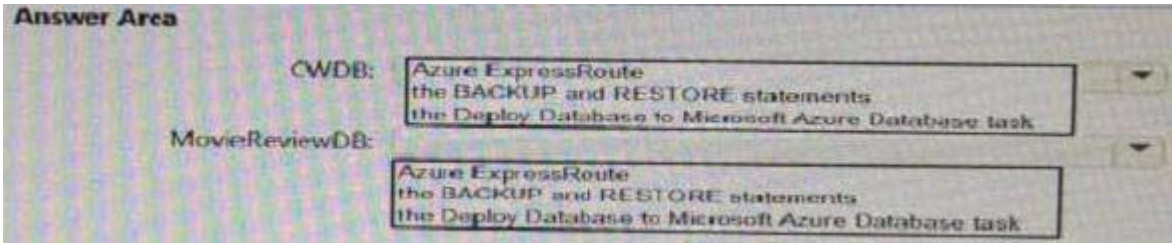
Marketing Department
Prosware has a web app for the marketing department. The web app uses an Azure SQL database. Managers in the marketing department occasionally bulk load data by using a custom application. The database is updated daily.

Problem Statemensts
Proseware identifies the following issues:
• Lock of planning and knowledge has complicated the database environment.
• Customers who have web apps hosted on WebServer1 report frequent outages caused by failures on WebData1. The current uptime is less than 90 percent.
• Internally, users complain of slow performance by the CRM application when the databases fail over to CRM-B.
• WebData1 has no high-availability option for the databases or the server.
• An internal licensing audit of SQL Server identifies that Proseware is noncompliant.
Host1, CRM-A, and CRM-B are licensed properly. VM1, VM2 VM3, VM4, and WebData1 are unlicensed.

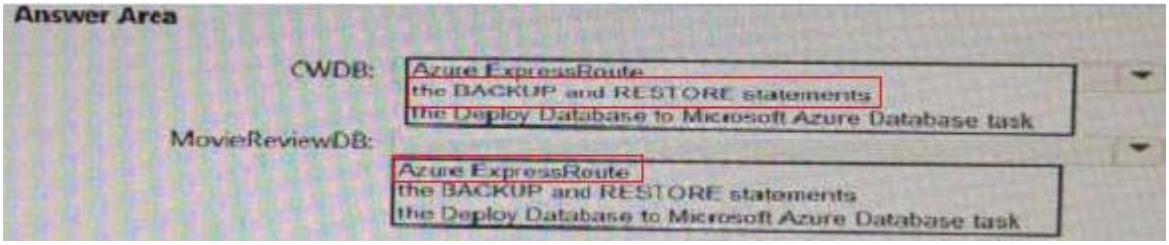
Business Requirements
Proseware identifies the following business requirements:
• Upgrade the infrastructure to address the issues reported by the internal users and customers.
• Minimize upgrade costs associated with purchasing hardware and software.
• Ensure that all software is licensed properly.
• Minimize the complexity of the database environment.
• Consolidate the instances of SQL Server that support the custom web app environment.
• Implement a disaster recovery environment in Azure fo the crm application.
• Ensure that any changes to the SQL Server environments either maintain or increase overall performance.
• Migrate all web front ends to Azure.
• Reuse licenses, whenever possible.
• Minimize the administrative effort required to generate the internal reports from the website databases.

Security Requirements
Proseware hosts a database for a company named Contoso.Ltd Currently, all of the employees at Contoso can access all of the data in the database.
Contoso plans to limit user access to the CWDB database so that customer service representatives can see only the data from the Personal info table that relates to their own customers.

HOT SPOT
You need to identify which methods to use to migrate MoveReviewDB and CWDB.
Which method should you identify for each database? To answer, select the appropriate options in the answer area.



Answer:



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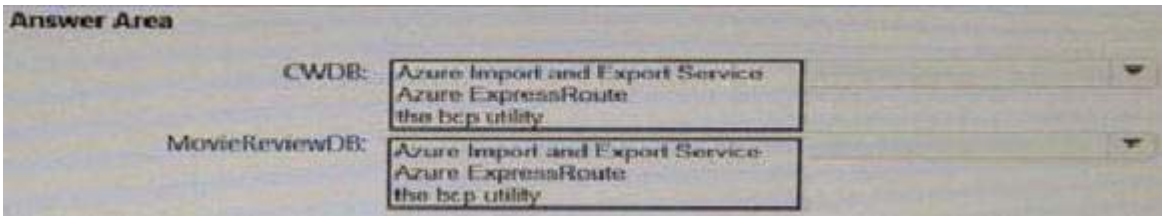
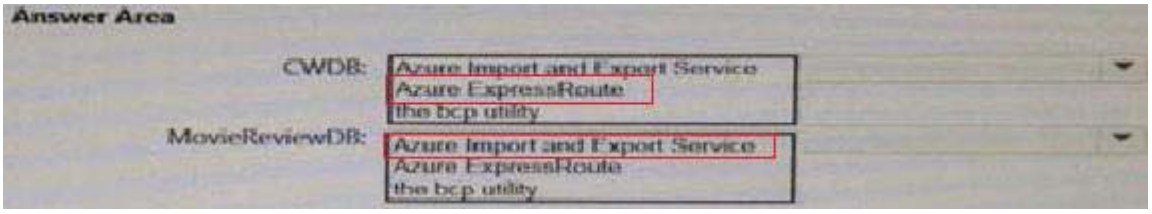


Answer:



3.You are planning the consolidation of the databases from Host1.
You need to identify which methods to use to back up the data after the consolidation completes.
What are two possible methods that achieve this goal? Each correct answer presents a complete solution.
A. BACKUP TO URL
B. Always On failover clustering
C. a maintenance plan
D. Always On Availability Groups
Answer: AC

4.You need to recommend a disaster recovery solution for the CRM application that meets the business requirements.
What should you recommend?
A. backup and restore by using Windows Azure Storage

B. log shipping
C. Always On Availability Groups
D. database mirroring
Answer: B

5.You are planning the consolidation of the databases from Host1.
You need to identify which methods to use to back up the data after the consolidation completes.
What are two possible methods that achieve this goal? Each correct answer presents a complete solution.
A. BACKUP TO URL
B. Always On failover clustering
C. a maintenance plan
D. Always On Availability Groups
Answer: C