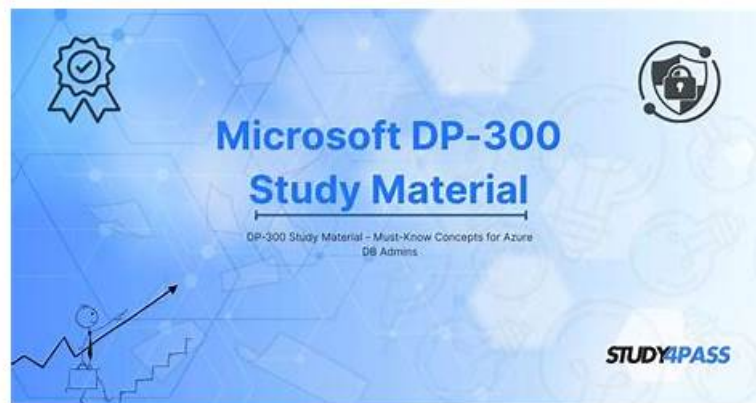


# DP-300 Best Study Material, DP-300 Study Guides



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In our study, we found that many people have the strongest ability to use knowledge for a period of time at the beginning of their knowledge. As time goes on, memory fades. Our DP-300 training materials are designed to help users consolidate what they have learned, will add to the instant of many training, the user can test their learning effect in time after finished the part of the learning content, have a special set of wrong topics in our DP-300 Guide dump, enable users to find their weak spot of knowledge in this function, iterate through constant practice, finally reach a high success rate. As a result, our DP-300 study questions are designed to form a complete set of the contents of practice can let users master knowledge as much as possible, although such repeated sometimes very boring, but it can achieve good effect of consolidation.

To prepare for the Microsoft DP-300 exam, professionals can take advantage of various resources, such as online training courses, practice tests, and study guides. Microsoft also provides official training and certification programs to help professionals prepare for the DP-300 Exam. Passing this certification exam can help professionals gain confidence in their database management abilities and demonstrate their expertise to potential employers.

>> **DP-300 Best Study Material** <<

## DP-300 Study Guides - Reliable DP-300 Test Pattern

Another great way to assess readiness is the DP-300 web-based practice test. This is one of the trusted online Microsoft DP-300 prep materials to strengthen your concepts. All specs of the desktop software are present in the web-based Microsoft DP-300 Practice Exam. MS Edge, Opera, Firefox, Chrome, and Safari support this DP-300 online practice test.

## Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q157-Q162):

### NEW QUESTION # 157

You create all of the tables and views for ResearchDB1.

You need to implement security for ResearchDB1. The solution must meet the security and compliance requirements.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Run the Always Encrypted wizard.	
Create an Azure Key Vault instance and generate a secret.	
Create an Azure Key Vault instance and configure an access policy.	
Create an Azure AD managed identity.	
Register ResearchApp1 to Azure AD.	

Answer:

Explanation:

Actions	Answer Area
Run the Always Encrypted wizard.	Register ResearchApp1 to Azure AD.
Create an Azure Key Vault instance and generate a secret.	Create an Azure Key Vault instance and configure an access policy.
Create an Azure Key Vault instance and configure an access policy.	Run the Always Encrypted wizard.
Create an Azure AD managed identity.	
Register ResearchApp1 to Azure AD.	

Explanation:

Register ResearchApp1 to Azure AD.
Create an Azure Key Vault instance and configure an access policy.
Run the Always Encrypted wizard.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/always-encrypted-azure-key-vault-configure?tabs=azure-powershell>

#### NEW QUESTION # 158

You have an Azure subscription.

You plan to deploy an Azure SQL database by using an Azure Resource Manager template.

How should you complete the template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

```
{
  "resources": [
    {
      "type": "Microsoft.Sql/servers",
      "apiVersion": "2020-02-02-preview",
      "name": "[parameters('name1')]",
      "location": "[parameters('location')]",
      ...
    },
    {
      "type": "databases",
      "apiVersion": "2020-02-02-preview",
      ...
    },
    {
      "dependsOn": [
        "[resourceId('Microsoft.Sql/servers', concat(parameters('name1')))]"
      ],
      "properties": {
        "tags": {
          ...
        }
      }
    }
  ]
}
```

Answer:

Explanation:

**Answer Area** Microsoft

```
{
  "resources": [
    {
      "type": "Microsoft.Sql/servers",
      "apiVersion": "2020-02-02-preview",
      "name": "[parameters('name1')]",
      "location": "[parameters('location')]",
      ...
    },
    {
      "type": "databases",
      "apiVersion": "2020-02-02-preview",
      ...
    },
    {
      "dependsOn": [
        "[resourceId('Microsoft.Sql/servers', concat(parameters('name1')))]"
      ],
      "properties": {
        "tags": {
          ...
        }
      }
    }
  ]
}
```

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/single-database-create-arm-template-quickstart>

### NEW QUESTION # 159

You are evaluating the role assignments.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statements	Yes	No
DBAGroup1 will be able to sign in to each customer's Azure SQL database by using Azure Data Studio.	<input type="radio"/>	<input type="radio"/>
DBAGroup1 will be able to assign the SQL DB Contributor role to other users.	<input type="radio"/>	<input type="radio"/>
DBAGroup2 will be able to create a new Azure SQL database on each customer's Azure SQL Database server.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Explanation:

Statements	Yes	No
DBAGroup1 will be able to sign in to each customer's Azure SQL database by using Azure Data Studio.	<input checked="" type="radio"/>	<input type="radio"/>
DBAGroup1 will be able to assign the SQL DB Contributor role to other users.	<input type="radio"/>	<input checked="" type="radio"/>
DBAGroup2 will be able to create a new Azure SQL database on each customer's Azure SQL Database server.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Statements	Yes	No
DBAGroup1 will be able to sign in to each customer's Azure SQL database by using Azure Data Studio.	<input type="radio"/>	<input checked="" type="radio"/>
DBAGroup1 will be able to assign the SQL DB Contributor role to other users.	<input type="radio"/>	<input checked="" type="radio"/>
DBAGroup2 will be able to create a new Azure SQL database on each customer's Azure SQL Database server.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes

DBAGroup1 is member of the Contributor role.

The Contributor role grants full access to manage all resources, but does not allow you to assign roles in Azure RBAC, manage assignments in Azure Blueprints, or share image galleries.

Box 2: No

Box 3: Yes

DBAGroup2 is member of the SQL DB Contributor role.

The SQL DB Contributor role lets you manage SQL databases, but not access to them. Also, you can't manage their security-related policies or their parent SQL servers. As a member of this role you can create and manage SQL databases.

Reference:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

Topic 2, Litware

Existing Environment

Network Environment

The manufacturing and research datacenters connect to the primary datacenter by using a VPN.

The primary datacenter has an ExpressRoute connection that uses both Microsoft peering and private peering.

The private peering connects to an Azure virtual network named HubVNet.

Identity Environment

Litware has a hybrid Azure Active Directory (Azure AD) deployment that uses a domain named litwareinc.com. All Azure



subscriptions are associated to the litwareinc.com Azure AD tenant.

#### Database Environment

The sales department has the following database workload:

- \* An on-premises named SERVER1 hosts an instance of Microsoft SQL Server 2012 and two 1-TB databases.
- \* A logical server named SalesSrv01A contains a geo-replicated Azure SQL database named SalesSQLDb1. SalesSQLDb1 is in an elastic pool named SalesSQLDb1Pool. SalesSQLDb1 uses database firewall rules and contained database users.
- \* An application named SalesSQLDb1App1 uses SalesSQLDb1.

The manufacturing office contains two on-premises SQL Server 2016 servers named SERVER2 and SERVER3. The servers are nodes in the same Always On availability group. The availability group contains a database named ManufacturingSQLDb1. Database administrators have two Azure virtual machines in HubVnet named VM1 and VM2 that run Windows Server 2019 and are used to manage all the Azure databases.

#### Licensing Agreement

Litware is a Microsoft Volume Licensing customer that has License Mobility through Software Assurance.

#### Current Problems

SalesSQLDb1 experiences performance issues that are likely due to out-of-date statistics and frequent blocking queries.

#### Requirements

##### Planned Changes

Litware plans to implement the following changes:

- \* Implement 30 new databases in Azure, which will be used by time-sensitive manufacturing apps that have varying usage patterns. Each database will be approximately 20 GB.

- \* Create a new Azure SQL database named ResearchDB1 on a logical server named ResearchSrv01.

ResearchDB1 will contain Personally Identifiable Information (PII) data.

- \* Develop an app named ResearchApp1 that will be used by the research department to populate and access ResearchDB1.
- \* Migrate ManufacturingSQLDb1 to the Azure virtual machine platform.
- \* Migrate the SERVER1 databases to the Azure SQL Database platform.

#### Technical Requirements

Litware identifies the following technical requirements:

- \* Maintenance tasks must be automated.
- \* The 30 new databases must scale automatically.
- \* The use of an on-premises infrastructure must be minimized.
- \* Azure Hybrid Use Benefits must be leveraged for Azure SQL Database deployments.
- \* All SQL Server and Azure SQL Database metrics related to CPU and storage usage and limits must be analyzed by using Azure built-in functionality.

#### Security and Compliance Requirements

Litware identifies the following security and compliance requirements:

- \* Store encryption keys in Azure Key Vault.
- \* Retain backups of the PII data for two months.
- \* Encrypt the PII data at rest, in transit, and in use.
- \* Use the principle of least privilege whenever possible.
- \* Authenticate database users by using Active Directory credentials.
- \* Protect Azure SQL Database instances by using database-level firewall rules.
- \* Ensure that all databases hosted in Azure are accessible from VM1 and VM2 without relying on public endpoints.

#### Business Requirements

Litware identifies the following business requirements:

- \* Meet an SLA of 99.99% availability for all Azure deployments.
- \* Minimize downtime during the migration of the SERVER1 databases.
- \* Use the Azure Hybrid Use Benefits when migrating workloads to Azure.
- \* Once all requirements are met, minimize costs whenever possible.

### NEW QUESTION # 160

You have an Azure SQL managed instance.

You need to restore a database named DB1 by using Transact-SQL.

Which command should you run? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

RESTORE	▼	DB1 FROM	▼
DATABASE		DISK = N'\\NAS01\\SQLBackups\\DB1.bak';	
FILE		TAPE = N'\\Tape0'	
LOG		URL = N'https://mybackups.blob.core.windows.net/bkups/DB1.bak'	

Answer:

Explanation:

RESTORE DATABASE DB1 FROM DISK = N'\\NAS01\\SQLBackups\\DB1.bak';  
TAPE = N'\\Tape0'  
URL = N'https://mybackups.blob.core.windows.net/bkups/DB1.bak'

#### NEW QUESTION # 161

You have an Azure SQL database named DB1. The automatic tuning options for DB1 are configured as shown in the following exhibit.

**Inherit from:** Server **Azure defaults** Don't inherit

The database is inheriting automatic tuning configuration from Azure defaults.

**Configure the automatic tuning options**

OPTION	DESIRED STATE	CURRENT STATE
FORCE PLAN	ON OFF <b>INHERIT</b>	<b>ON</b> Auto-configured by Azure
CREATE INDEX	ON OFF <b>INHERIT</b>	<b>ON</b> Auto-configured by Azure
DROP INDEX	<b>ON</b> OFF INHERIT	<b>ON</b> Forced by user

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statements	Yes	No
Nonclustered indexes will be added to tables to improve performance.	<input type="radio"/>	<input type="radio"/>
Columns will be added to existing indexes automatically.	<input type="radio"/>	<input type="radio"/>
The query execution plan will revert to a previous plan if query performance degrades.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
Nonclustered indexes will be added to tables to improve performance.	<input checked="" type="radio"/>	<input type="radio"/>
Columns will be added to existing indexes automatically.	<input type="radio"/>	<input checked="" type="radio"/>
The query execution plan will revert to a previous plan if query performance degrades.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Statements	Yes	No
Nonclustered indexes will be added to tables to improve performance.	<input type="radio"/>	<input type="radio"/>
Columns will be added to existing indexes automatically.	<input type="radio"/>	<input type="radio"/>
The query execution plan will revert to a previous plan if query performance degrades.	<input type="radio"/>	<input type="radio"/>

Box 1: Yes

We see: Tuning option: Create index ON

CREATE INDEX - Identifies indexes that may improve performance of your workload, creates indexes, and automatically verifies that performance of queries has improved.

Box 2: No

Box 3: Yes

FORCE LAST GOOD PLAN (automatic plan correction) - Identifies Azure SQL queries using an execution plan that is slower than the previous good plan, and queries using the last known good plan instead of the regressed plan.

## NEW QUESTION # 162

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