

C5050-285.exam

Number: C5050-285
Passing Score: 800
Time Limit: 120 min



C5050-285

IBM Cloud Platform Application Development



Exam A

QUESTION 1

What are the two key benefits of Cloudant Sync? (Select two.)

- A. Sensitive data is encrypted by default before replication.
- B. Replication is extremely fast because it is limited to documents less than 2KB in size.
- C. The distributed database architecture is more scalable than a single central database.
- D. It enables mobile device apps accessing the database to operate without a network connection.
- E. It significantly reduces the amount of storage needed once all participating databases are in sync.

Correct Answer: AC

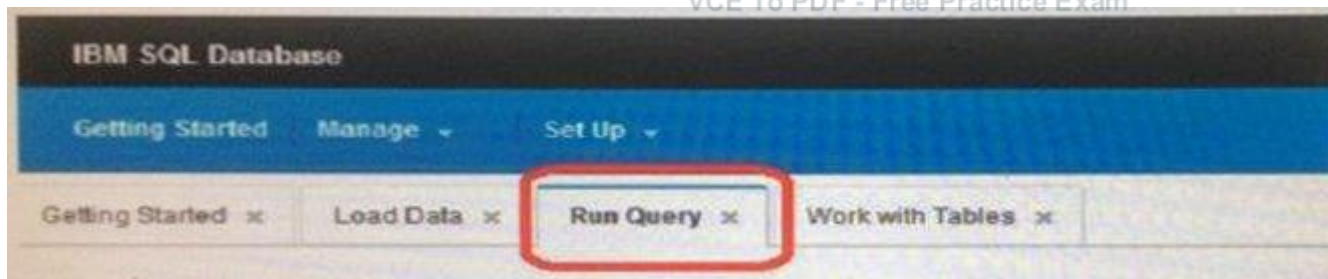
Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Which statement is correct regarding the capabilities available on the Run Query tab shown in the image of the SQL Database Service web console to manage instances in IBM Bluemix PaaS?



- A. Only SQL `SELECT` statements are allowed.
- B. The queries can only be generated through a wizard.
- C. Queries can use JSON documents as SQL command arguments.
- D. A maximum of 500 rows of data can be returned from each query.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 3**

Where are objects such as images, audio and video files stored in IBM Object Storage?

- A. Group
- B. Folder
- C. Bucket
- D. Container

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: http://www-01.ibm.com/support/knowledgecenter/SSQRB8/com.ibm.spectrum.si.doc/tpch_r_storagesystem_object.html

QUESTION 4

Which statement is true of the Cloudant NoSQL service?

- A. It prioritizes space savings over availability.
- B. It prioritizes immediate consistency over availability.
- C. It prioritizes availability over immediate consistency.
- D. It prioritizes immediate consistency over performance.

Correct Answer: C

Section: (none)

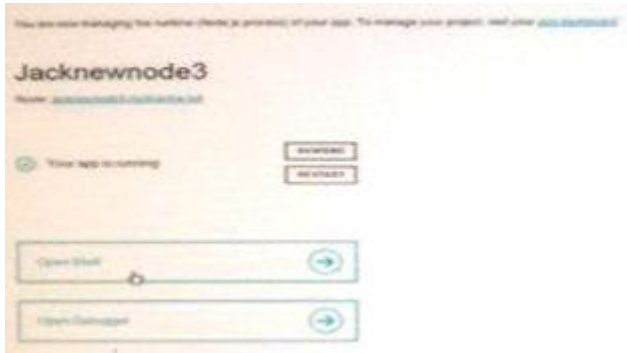
Explanation

Explanation/Reference:

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5126.pdf> (p.17)

QUESTION 5

When a Node.js application is configured for IBM Bluemix Live Sync Debug mode, opening the url <https://<app-host>.mybluemix.net/bluemix-debug/manage> shows:



What will occur when the Restart button is selected?

- A. Redeploy and restart the application.
- B. Restart without redeploying application.
- C. Restart the managed services and not the application.
- D. Recycle the application memory and jump to the current breakpoint.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

The following document exists in a Cloudant database named `invoices` created by user `candidate`

```
{
  "_id": "invoice101",
  "_rev": "1-161414fcefaf9965b7f6579c49718470",
  "user": "candidate",
  "PO": "5678990",
  "amount": 1568.90
}
```

What information is required in order to delete it?

- A. the document's `_id` only
- B. the document `_id` and `user`
- C. the document's most recent `_rev` value only
- D. the document's `_id` and most recent `_rev` value



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

To delete a document you need its `_id` and `_rev`, the easiest way to get the `_rev` for a known document `_id` is to issue a HEAD request against the document:

Command

curl -i -X HEAD [https://\[username\].cloudant.com/crud/\[doc_id\]](https://[username].cloudant.com/crud/[doc_id])

Response

HTTP/1.1 200 OK

X-Couch-Request-ID: 89d9d456

Server: CouchDB/1.0.2 (Erlang OTP/R14B)

ETag: "2-e4b98cc0fc2a181e4eb26f8ad41fa5fe"

Date: Mon, 04 Jun 2012 14:47:15 GMT

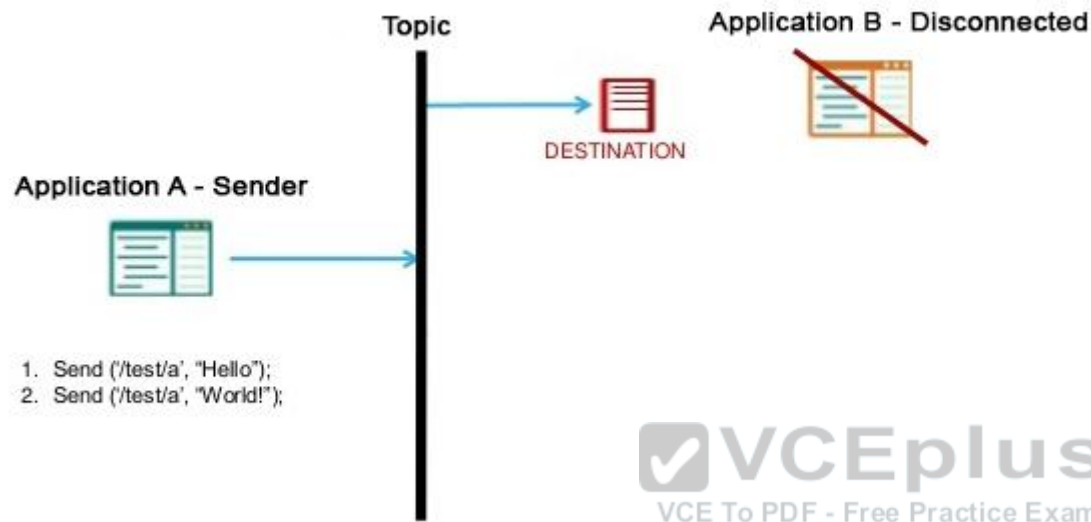
Content-Type: text/plain; charset=utf-8

Content-Length: 113

Cache-Control: must-revalidate

QUESTION 7

Applications A and B are configured to use IBM MQ Light for Bluemix messaging capabilities. Application A publishes messages to a topic. Application B subscribes to the same topic in order to receive the messages published by Application A. What occurs when Application A publishes the message after Application B goes down?



- A. Destination stores the message and it will be received if Application B comes back up before the destination time-to-live expires.
- B. Application A receives a notification from the destination that Application B is down.
- C. Topic stores the message forever, and the message will be received by Application B after it comes back up.
- D. Destination stores the copy of the message for one hour. If Application B does not come back up within one hour the message will be lost.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

MQ Light messaging provides two models for delivery assurance, at most once, and at least once. The first is appropriate when occasional loss of data caused by a communication disruption is acceptable, and the second is required when there can be no loss of data. When using at least once, duplicate messages may appear around communication disruptions and they should to be programmatically discarded. MQ Light buffers messages based upon message and destination time-to-live. When an application subscribes to a topic it may specify a destination time-to-live, which will cause MQ Light to store messages at the destination in the event of a receiving application crash. After the destination time-to-live expires, MQ Light will discard all held messages and stops storing new messages.

QUESTION 8

How are views created in Cloudant?

- A. by creating a Primary Index with doc id's
- B. by creating a Secondary Index with doc id's
- C. by creating a Primary Index using the Map function
- D. by creating a Secondary Index using the Map function

Correct Answer: C

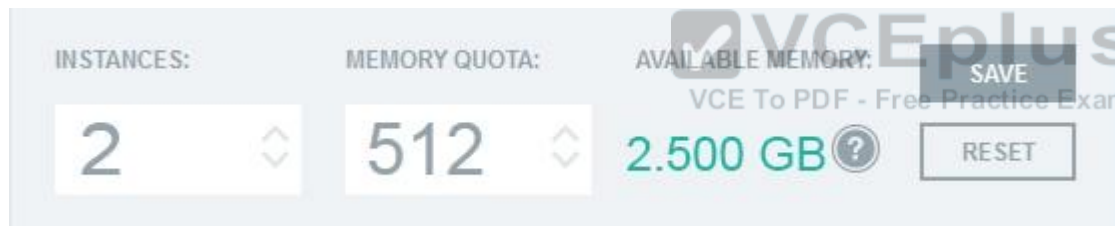
Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

According to this application Overview panel image, how is the memory quota (measured in MB) applied to the two instances?



The screenshot shows a configuration panel for an application. It has three main sections: 'INSTANCES:', 'MEMORY QUOTA:', and 'AVAILABLE MEMORY:'. Under 'INSTANCES:', there is a text input field containing the number '2' and a small up/down arrow icon. Under 'MEMORY QUOTA:', there is a text input field containing the number '512' and a small up/down arrow icon. Under 'AVAILABLE MEMORY:', there is a text label '2.500 GB' followed by a question mark icon. To the right of these fields are two buttons: 'SAVE' and 'RESET'.

- A. each instance gets 512 MB of memory
- B. each instance shares the available memory
- C. the instance that receives the most traffic gets the most memory
- D. the instance will divide the memory quota evenly, each receiving 256 MB of memory

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

What is an example of an Auto-Scaling Service Policy Rule in IBM Bluemix PaaS?

- A. If the application is not accessed for 600 seconds, remove one instance.
- B. If the average disk space utilization exceeds 99%, add dynamic disk storage.
- C. If the average memory utilization exceeds 80% for 600 seconds, add one instance.
- D. If the average memory usage exceeds 80% for 300 seconds, add 64 MB of memory.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

What allows for the sharing of variables across any job in a stage in the Delivery Pipeline of IBM Bluemix DevOps Services?

- A. environment properties
- B. the Admin options in the Project settings
- C. a flag passed to the job when it is executed
- D. a setting in the project's properties called Shared Variables

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

Which statement characterizes the dashDB service?

- A. It is optimized for time series data.
- B. It is designed for analytic queries.
- C. It is optimized for normalized data.
- D. It is based upon the MySQL engine.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The dashDB service in IBM Bluemix is an example of an in memory, columnar databases service. dashDB is based on DB2 BLU and its columnar organizations favors analytic queries that access a large number of values from a subset of the columns and make heavy use of aggregations and joins. dashDB also leverages compression to allow larger amounts of data to reside in memory.

QUESTION 13

While using the Web IDE in IBM Bluemix DevOps Services, there is a need to change the Bluemix deployment region from US South to the United Kingdom. What must be edited?

- A. Launch Configuration
- B. IBM Bluemix DevOps Services User Profile
- C. IBM Bluemix PaaS manifest file (manifest.yml)
- D. application configuration file (package.json or server.xml)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 14**

A developer's application is falling to work correctly in IBM Bluemix PaaS. The developer is unsure if the problem is caused by a bad environment value or a bug in the code. How should they proceed?

- A. Rebind the service associated with VCAP_SERVICES.
- B. Use `cf env <app_name>` to get all the environment variables for the application.
- C. Delete the service associated with VCAP_SERVICES and recreate it without rebinding.
- D. Use `cf set-env <app_name>` to set all environment variables to null for the application.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

Which two capabilities are available in the dashDB Service Web Console to manage instances in IBM Bluemix PAAS? (Select two.)

- A. sync data from an instance of Cloudant
- B. load Comma Separated Values (CSV) from an external file
- C. load relational data directly from another instance of dashDB
- D. load relational data directly from an instance of SQL Database
- E. load time series data directly from an instance of the Time Series database

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Create a project

laksri | 

Create a new repository or link to an existing one ⓘ



Create a new repository



Link to an existing repository

When creating a new project in IBM Bluemix DevOps Services, which action is performed when Link to an existing repository is selected?

- A. An existing GitHub repository is linked to the project by giving IBM DevOps Services access to a specified GitHub account.
- B. An existing Git project on the developer's local machine is linked to the project.
- C. An existing GitHub repository is linked to the project using anonymous access.
- D. An existing user's project in IBM DevOps Services is linked to the project.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

What are three types of work items available in the IBM Bluemix DevOps Services Track & Plan feature? (Select three.)

- A. PMR
- B. Task
- C. Story
- D. Sprint
- E. Defect
- F. Test Plan

Correct Answer: BCE

Section: (none)

Explanation

Explanation/Reference:

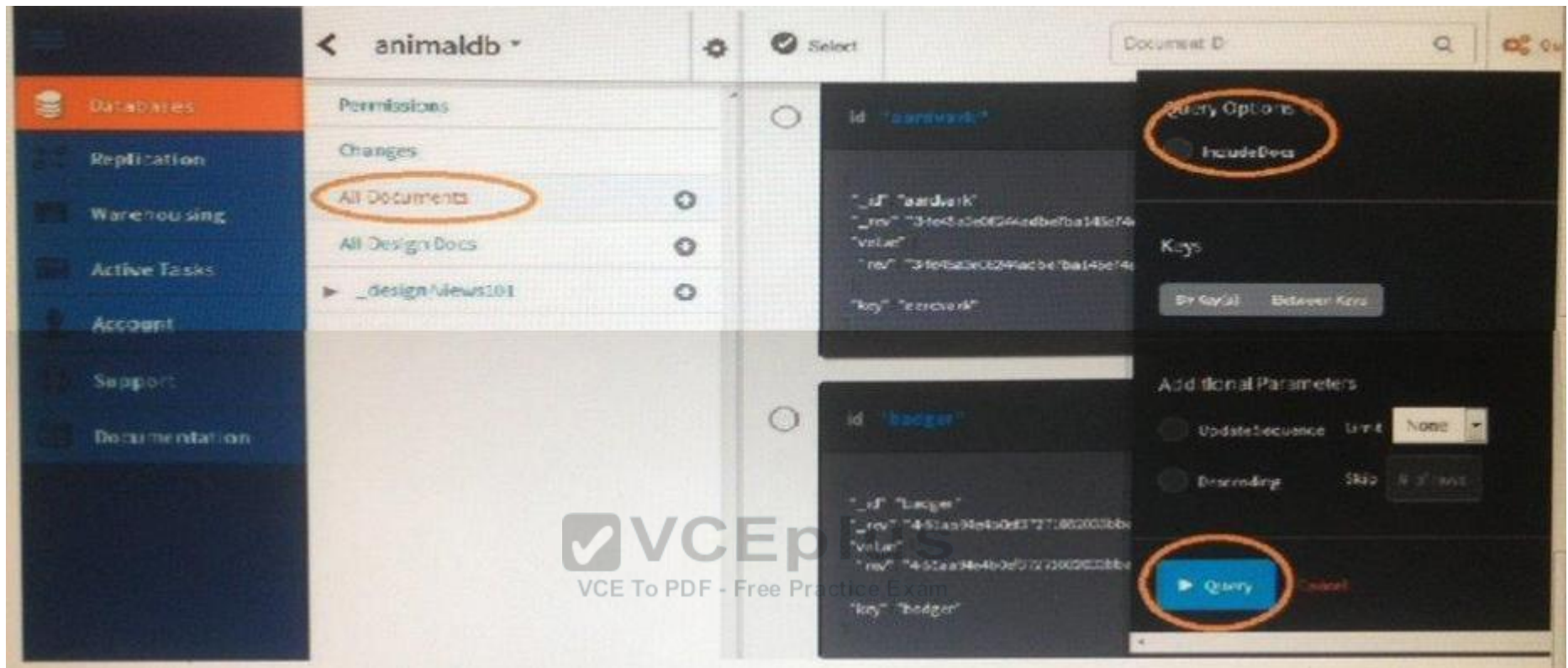
Explanation:

1. Bluemix DevOps Services - Track & Plan supports typical activities conducted during agile projects, such as backlog management, sprint planning, and daily scrums
2. Understand work items in Track & Plan like epic, story, task, and defect

On an agile project, features to implement are captured in a product backlog, then the team identifies the work for the next Sprint in the Sprint Backlog.

QUESTION 18

After selecting All Documents in a Cloudant database using the Cloudant Dashboard, what is the result of selecting Include Docs in the Query Options and clicking Query as shown in the image?



- A. A search index would be created for all the documents to make the query run faster.
- B. All fields from each document will be shown in the display.
- C. An error indicating an illegal operation is displayed because this option cannot be used unless a key range is specified.
- D. The summary is replaced with a link to download the entire contents of all documents.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

How are managed services from the IBM Bluemix PaaS catalog used in an application?

- A. Services can only be used by an IBM Bluemix PaaS application with a signed one year agreement.
- B. Services can be found through the IBM Cloud Marketplace and must be purchased before using them.
- C. Services are ready for immediate use and can be used by any IBM Bluemix PaaS application after binding.
- D. Services must be downloaded from IBM, third-party, or community locations and installed on a virtual machine before using them.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

A developer has an application and they wish to make it available as a service through IBM Cloud. Which two options are available for publishing the solution? (Select two.)

- A. IBM Cloud
- B. IBM SoftLayer
- C. IBM Cloud Marketplace
- D. IBM Connections Cloud
- E. IBM Bluemix PaaS as a third-party service

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21



A developer has an application based on the Liberty profile running in IBM Bluemix PaaS. The developer wants to maintain high availability on HTTP sessions. What is the benefit of using IBM Bluemix Session Cache service?

- A. Session data is shared across different browsers.
- B. Session data is automatically stored in remote file systems.
- C. Session data is encrypted and stored in a MySQL database.
- D. Session data is recovered after an application instance crashes.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

What is the output of the `cf apps` command?

- A. a list of all the applications and services for the developer's organization
- B. a list of services bound to each application for the developer's organization
- C. a list of all the running applications on IBM Bluemix PaaS with application owner ID
- D. a list of all the applications in the developer's space with the name and resource utilization

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:****QUESTION 23**

If you have an instance of myApp with 1GB of memory and 1GB of disk running on Bluemix PaaS, what is the result of the command `cf scale myApp -k 2G`?

- A. scaling the myApp vertically by increasing the memory to 2GB
- B. scaling the myApp vertically by increasing the memory to 3 GB
- C. scaling the myApp vertically by increasing the size of the disk to 2 GB
- D. scaling the myApp vertically by increasing the size of the disk to 3 GB

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:****QUESTION 24**

When defining a Cloudant view, what must be defined?

- A. a map function
- B. a sort function
- C. a reduce function
- D. a rereduce function

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:****QUESTION 25**

A developer is going into production with a consumer web application in IBM Bluemix PaaS. The developer is keen to understand how the application is performing to maximize customer retention.

The scaling history for the application shows repetitive scale out and scale in actions. To reduce resources used by each instance startup, the developer

wants the scaling service to wait longer before taking action. What parameter should be changed and how?

- A. increase the cooldown period for scaling in
- B. decrease the cooldown period for scaling in
- C. increase the cooldown period for scaling out
- D. decrease the cooldown period for scaling out

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

A developer is going into production with a consumer web application in IBM Bluemix PaaS. The developer is keen to understand how the application is performing to maximize customer retention.

Where can the developer look to obtain a current display of CPU, disk and memory usage?

- A. Track and Plan
- B. Workload Scheduler
- C. Instance Details panel
- D. AppScan Dynamic Analyzer



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The Instance Details panel provides the current view of running instances for an application, and the CPU and memory utilization of each instance. This panel can be accessed from the Cloud Foundry dashboard by selecting an application to bring up the overview, and then clicking on the runtime for the application.

QUESTION 27

What is a Stage Trigger in Delivery Pipeline?

- A. an action that adds a new stage
- B. an action that tells a job when to execute

- C. an action that pushes code changes to git
- D. an action that updates a work item in Track & Plan

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Why would the Load Impact service in IBM Bluemix PaaS be used?

- A. For its ability to manage a sudden load increase in an application.
- B. For its ability to replicate instances across IBM Bluemix PaaS regions.
- C. For its ability to simulate user loads on IBM Bluemix PaaS applications.
- D. For its ability to increase application availability by increasing application instances.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 29

A developer is creating an application to search social media for pictures with specific content, What IBM Bluemix PaaS service should they use?

- A. DreamFace
- B. AlchemyAPI
- C. Personality Insights
- D. Monitoring and Analytics

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <http://www.alchemyapi.com/api/image-link-extraction>

QUESTION 30

Based on the Twelve-Factor App methodology, where is the best place to store external configuration credentials in IBM Bluemix PaaS?

- A. in the source code
- B. in a user configuration file
- C. in an application database
- D. in the VCAP_SERVICES environment variable

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Provide any additional configuration information through the VCAP_SERVICES environment variable. Services that are bound to an application also populate VCAP_SERVICES with their configuration attributes.