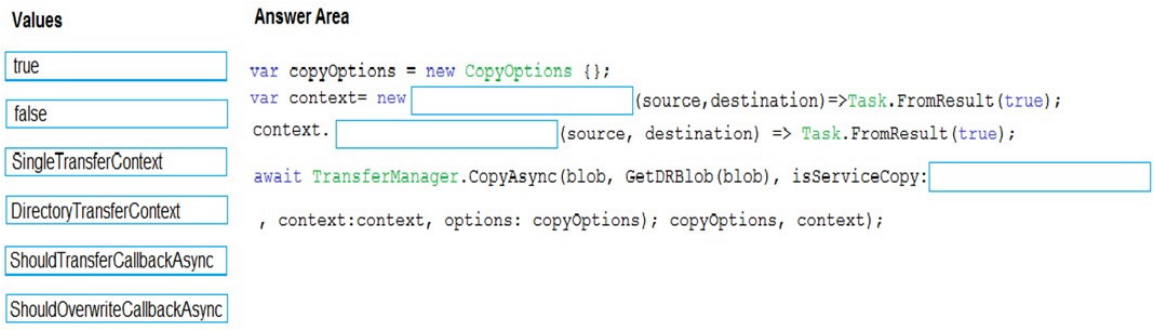
QUESTION 5
DRAG DROP
You need to ensure disaster recovery requirements are met.

What code should you add at line PC16?

To answer, drag the appropriate code fragments to the correct locations. Each code fragment 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.



Correct Answer:

QUESTION 6
You need to ensure receipt processing occurs correctly. What should you do?

A. Use blob properties to prevent concurrency problems
B. Use blob SnapshotTime to prevent concurrency problems
C. Use blob metadata to prevent concurrency problems
D. Use blob leases to prevent concurrency problems

Correct Answer: D
Explanation:
You can create a snapshot of a blob. A snapshot is a read-only version of a blob that's taken at a point in time. Once a snapshot has been created, it can be read, copied, or deleted, but not modified. Snapshots provide a way to back up a blob as it appears at a moment in time.

Scenario:
Processing is performed by an Azure Function that uses version 2 of the Azure Function runtime.

Once processing is completed, results are stored in Azure Blob Storage and an Azure SQL database. Then, an email summary is sent to the user with a link to the processing report. The link to the report must remain valid if the email is forwarded to another user.

Reference:
https://docs.microsoft.com/en-us/rest/api/storageservices/creating-a-snapshot-of-a-blob

QUESTION 7
You need to resolve the capacity issue. What should you do?

A. Convert the trigger on the Azure Function to an Azure Blob storage trigger
B. Ensure that the consumption plan is configured correctly to allow scaling
C. Move the Azure Function to a dedicated App Service Plan
D. Update the loop starting on line PC09 to process items in parallel

Correct Answer: D
Explanation:
If you want to read the files in parallel, you cannot use forEach. Each of the async callback function calls does return a promise. You can await the array of promises that you'll get with Promise.all.

Scenario:
Capacity issue: During busy periods, employees report long delays between the time they upload the receipt and when it appears in the web application.

```
PC08    var container = await GetCloudBlobContainer();
PC09    foreach (var fileItem in await ListFiles())
PC10    {
PC11      var file = new CloudFile(fileItem.StorageUri.PrimaryUri);
PC12      var ms = new MemoryStream();
PC13      await file.DownloadToStreamAsync(ms);
PC14      var blob = container.GetBlockBlobReference(fileItem.Uri.ToString());
PC15      await blob.UploadFromStreamAsync(ms);
PC16
PC17    }
```

Reference:
https://stackoverflow.com/questions/37576685/using-async-await-with-a-foreach-loop

Topic 6, Coho Winery

Case study
This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study
To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

LabelMaker app
Coho Winery produces, bottles, and distributes a variety of wines globally. You are a developer implementing highly scalable and resilient applications to support online order processing by using Azure solutions.

Coho Winery has a LabelMaker application that prints labels for wine bottles. The application sends data to several printers. The application consists of five modules that run independently on virtual machines (VMs). Coho Winery plans to move the application to Azure and continue to support label creation.

External partners send data to the LabelMaker application to include artwork and text for custom label designs.

Requirements.Data
You identify the following requirements for data management and manipulation:

- Order data is stored as nonrelational JSON and must be queried using SQL.
- Changes to the Order data must reflect immediately across all partitions. All reads to the Order data must fetch the most recent writes.

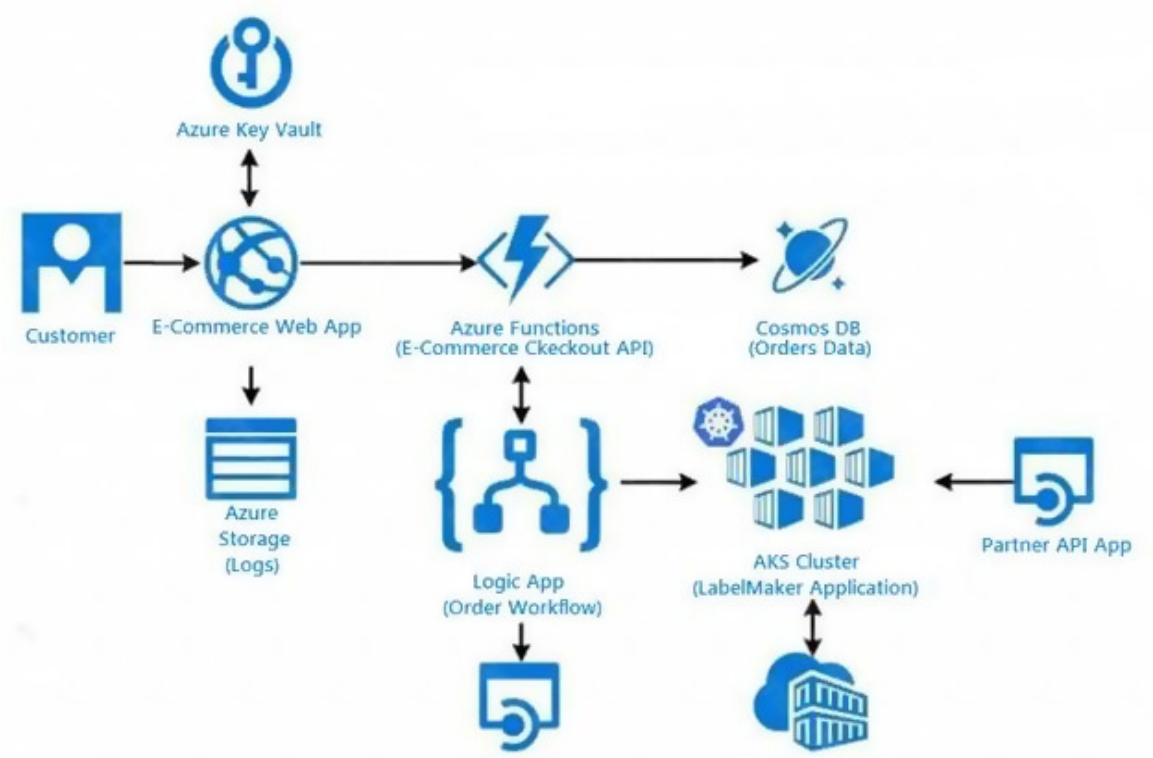
Requirements. Security
You have the following security requirements:

- Users of Coho Winery applications must be able to provide access to documents, resources, and applications to external partners.
- External partners must use their own credentials and authenticate with their organization's identity management solution.
- External partner logins must be audited monthly for application use by a user account administrator to maintain company compliance.
- Storage of e-commerce application settings must be maintained in Azure Key Vault.
- E-commerce application sign-ins must be secured by using Azure App Service authentication and Azure Active Directory (AAD).
- Conditional access policies must be applied at the application level to protect company content.
- The LabelMaker application must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.

Requirements. LabelMaker app
Azure Monitor Container Health must be used to monitor the performance of workloads that are deployed to Kubernetes environments and hosted on Azure Kubernetes Service (AKS).

You must use Azure Container Registry to publish images that support the AKS deployment.

Architecture



Issues
Calls to the Printer API App fail periodically due to printer communication timeouts.

Printer communication timeouts occur after 10 seconds. The label printer must only receive up to 5 attempts within one minute.

The order workflow fails to run upon initial deployment to Azure.

Order.json
Relevant portions of the app files are shown below. Line numbers are included for reference only.

This JSON file contains a representation of the data for an order that includes a single item.

Order.json

```
{
  “id” : 1,
  “customers” : [
  {
     “familyName” : “Doe”,
     “givenName” : “John”,
     “customerid” : 5
   }
  ],
  “line_items” : [
  {
     “fulfillable_quantity” : 1,
     “id” : 6,
     “price” : “199.99” ,
     “product_id” : 7513594,
     “quantity”: 1,
     “requires_shipping” : true ,
     “sku” : “SFC-342-N” ,
     “title”: “Surface Go” ,
     “vendor” : “Microsoft” ,
     “name” : “Surface Go – 8GB” ,
     “taxable” : true ,
     “tax_lines” : [
     {
       “title” : “State Tax” ,
       “price” : “3.98” ,
       “rate” : 0.06
      }
     ],
     “total_discount” : “5.00” ,
     “discount_allocations” : [
      {
        “amount” : “5.00” ,
        “discount_application_index” : 2
        }
     ]
   }
  ],
  “address” : {
  “state” : “NY” ,
  “state”: “Manhattan” ,
  “city” : “NY”
  }
}
```