



AZ-400^{Q&As}

Designing and Implementing Microsoft DevOps Solutions

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QUESTION 1

HOTSPOT

You have an Azure web app named Webapp1.

You need to use an Azure Monitor query to create a report that details the top 10 pages of Webapp1 that failed.

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

NOTE: Each correct selection is worth one point.

Hot Area:

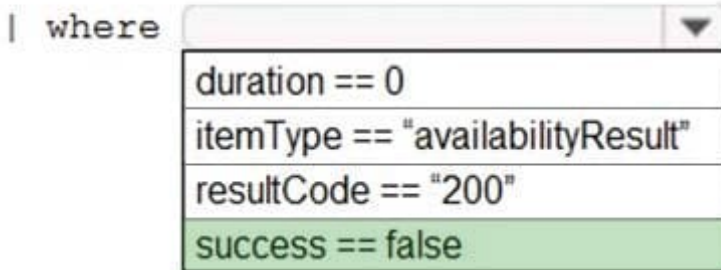
	▼
exceptions	
pageViews	
requests	
traces	

| where

	▼
duration == 0	
itemType == "availabilityResult"	
resultCode == "200"	
success == false	

```
| summarize failedCount=sum(itemCount) by name, resultCode  
| top 10 by failedCount desc  
| render barchart
```

Correct Answer:



```
| summarize failedCount=sum(itemCount) by name, resultCode  
| top 10 by failedCount desc  
| render barchart
```

Box 1: requests

Failed requests (requests/failed):

The count of tracked server requests that were marked as failed.

Kusto code:

```
requests
```

```
| where success == '\\False\\'
```

Box 2: success == false

QUESTION 2

You have an Azure subscription. The subscription contains virtual machines that run either Windows Server or Linux. You plan to use Prometheus to monitor performance metrics.

You need to integrate Prometheus and Azure Monitor.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Install a Prometheus server on a Windows virtual machine in Azure.
- B. On each virtual machine, expose the metrics endpoint.
- C. On each virtual machine, enable the Azure Diagnostics extension.



- D. On each virtual machine, enable the containerized agent for Azure Monitor.
- E. Expose a virtual network service endpoint for Azure Storage.
- F. Install a Prometheus server on a Linux virtual machine in Azure.

Correct Answer: AB

QUESTION 3

DRAG DROP

You need to recommend a solution for deploying charts by using Helm and Tiller to Azure Kubernetes Service (AKS) in an RBAC-enabled cluster.

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

Select and Place:

Commands

Answer Area

helm install

kubect1 create

helm completion

helm init

helm serve



Correct Answer:



Commands

Answer Area

```
helm completion
```

```
helm serve
```

```
helm install
```

```
kubectl create
```

```
helm init
```

Step 1: Kubectl create

You can add a service account to Tiller using the `--service-account` flag while you're configuring Helm (step 2 below). As a prerequisite, you'll have to create a role binding which specifies a role and a service account name that have been set up in advance.

Example: Service account with cluster-admin role

```
$ kubectl create -f rbac-config.yaml
```

```
serviceaccount "tiller" created
```

```
clusterrolebinding "tiller" created
```

```
$ helm init --service-account tiller
```

Step 2: helm init

To deploy a basic Tiller into an AKS cluster, use the `helm init` command.

Step 3: helm install

To install charts with Helm, use the `helm install` command and specify the name of the chart to install.

References:

<https://docs.microsoft.com/en-us/azure/aks/kubernetes-helm>

https://docs.helm.sh/using_helm/#tiller-namespaces-and-rbac

QUESTION 4

SIMULATION

You plan to deploy a runbook that will create Azure AD user accounts.



You need to ensure that runbooks can run the Azure PowerShell cmdlets for Azure Active Directory.

To complete this task, sign in to the Microsoft Azure portal.

Correct Answer: See solution below.

QUESTION 5

HOTSPOT

You currently use JIRA, Jenkins, and Octopus as part of your DevOps processes.

You plan to use Azure DevOps to replace these tools.

Which Azure DevOps service should you use to replace each tool? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

JIRA: ▼

Boards
Build pipelines
Release pipelines
Repos

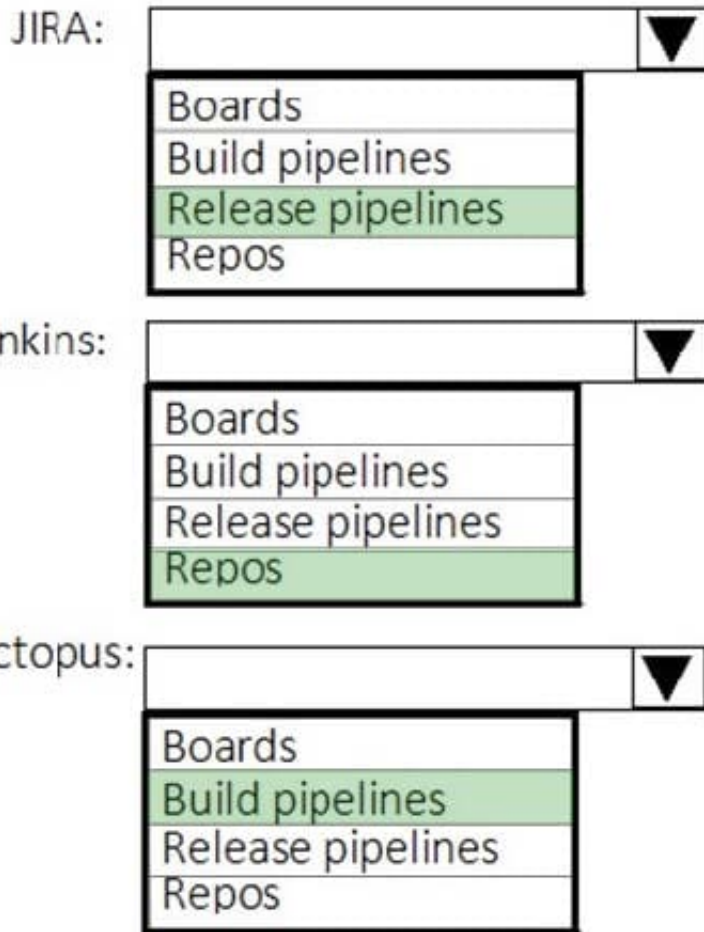
Jenkins: ▼

Boards
Build pipelines
Release pipelines
Repos

Octopus: ▼

Boards
Build pipelines
Release pipelines
Repos

Correct Answer:



JIRA: Release pipelines Atlassian's Jira Software is a popular application that helps teams to plan, track, and manage software releases, whereas Octopus Deploy helps teams automate their development and operations processes in a fast, repeatable, and reliable manner. Together, they enable teams to get better end-to-end visibility into their software pipelines from idea to production.

Jenkins: Repos One way to integrate Jenkins with Azure Pipelines is to run CI jobs in Jenkins separately. This involves configuration of a CI pipeline in Jenkins and a web hook in Azure DevOps that invokes the CI process when source code is pushed to a repository or a branch.

Octopus: Build pipelines

References: <https://octopus.com/blog/octopus-jira-integration>

<https://www.azuredevopslabs.com/labs/vstsextend/jenkins/>