Microsoft Azure DevOps Solutions v1.0 (AZ-400)

Question 41 (Question Set 2)

Your team uses an agile development approach.
You need to recommend a branching strategy for the team"™s Git repository. The strategy must meet the following requirements.
-> Provide the ability to work on multiple independent tasks in parallel.
-> Ensure that checked-in code remains in a releasable state always.
-> Ensure that new features can be abandoned at any time.
-> Encourage experimentation.
What should you recommend?

A. a single long-running branch without forking
B. multiple long-running branches
C. a single fork per team member
D. a single long-running branch with multiple short-lived feature branches

Expose Correct Answer

Answer : **D**

Explanation:
Topic/feature branches, however, are useful in projects of any size. A topic branch is a short-lived branch that you create and use for a single particular feature or related work. This is something you"™ve likely never done with a VCS before because it"™s generally too expensive to create and merge branches. But in Git it"™s common to create, work on, merge, and delete branches several times a day.
Reference:
https://git-scm.com/book/en/v2/Git-Branching-Branching-Workflows

Next Question

Question 42 (Question Set 2)

Your company has a project in Azure DevOps for a new web application.
The company identifies security as one of the highest priorities.
You need to recommend a solution to minimize the likelihood that infrastructure credentials will be leaked.
What should you recommend?

A. Add a Run Inline Azure PowerShell task to the pipeline.
B. Add a PowerShell task to the pipeline and run Set-AzureKeyVaultSecret.
C. Add a Azure Key Vault task to the pipeline.
D. Add Azure Key Vault references to Azure Resource Manger templates.

Expose Correct Answer

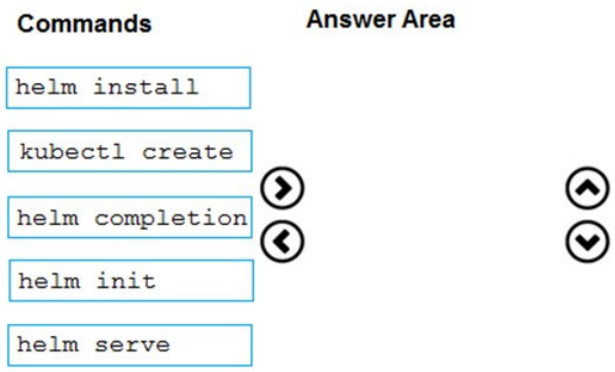
Answer : **B**

Explanation:
Azure Key Vault provides a way to securely store credentials and other keys and secrets.
The Set-AzureKeyVaultSecret cmdlet creates or updates a secret in a key vault in Azure Key Vault.
References:
https://docs.microsoft.com/en-us/powershell/module/azurerm.keyvault/set-azurekeyvaultsecret

Next Question

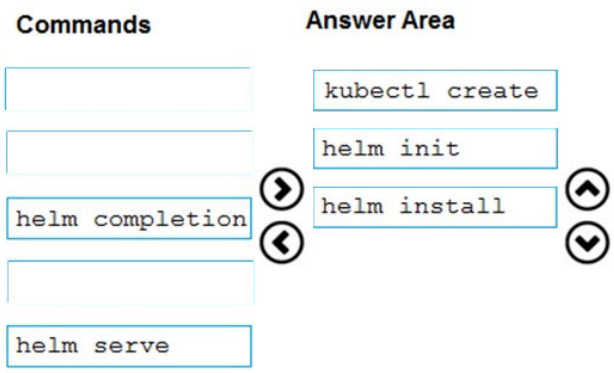
Question 43 (Question Set 2)

DRAG DROP -
You provision an Azure Kubernetes Service (AKS) cluster that has RBAC enabled. You have a Helm chart for a client application.
You need to configure Helm and Tiller on the cluster and install the chart.
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:



Expose Correct Answer

Answer :



Explanation:

Step 1: Kubectl create -
You can add a service account to Tiller using the --service-account <NAME> 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

Next Question

Question 44 (Question Set 2)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You need to recommend an integration strategy for the build process of a Java application. The solution must meet the following requirements:
-> The builds must access an on-premises dependency management system.
-> The build outputs must be stored as Server artifacts in Azure DevOps.
-> The source code must be stored in a Git repository in Azure DevOps.
Solution: Configure an Octopus Tentacle on an on-premises machine. Use the Package Application task in the build pipeline.
Does this meet the goal?

A. Yes
B. No

Expose Correct Answer

Answer : **A**

Explanation:
Octopus Deploy is an automated deployment server that makes it easy to automate deployment of ASP.NET web applications, Java applications, NodeJS application and custom scripts to multiple environments.
Octopus can be installed on various platforms including Windows, Mac and Linux. It can also be integrated with most version control tools including VSTS and
GIT.
When you deploy software to Windows servers, you need to install Tentacle, a lightweight agent service, on your Windows servers so they can communicate with the Octopus server.
When defining your deployment process, the most common step type will be a package step. This step deploys your packaged application onto one or more deployment targets.

When deploying a package you will need to select the machine role that the package will be deployed to.
References:
https://octopus.com/docs/deployment-examples/package-deployments
https://explore.emtecinc.com/blog/octopus-for-automated-deployment-in-devops-models

Next Question

Question 45 (Question Set 2)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You need to recommend an integration strategy for the build process of a Java application. The solution must meet the following requirements:
-> The builds must access an on-premises dependency management system.
-> The build outputs must be stored as Server artifacts in Azure DevOps.
-> The source code must be stored in a Git repository in Azure DevOps.
Solution: Install and configure a self-hosted build agent on an on-premises machine. Configure the build pipeline to use the Default agent pool. Include the Java
Tool Installer task in the build pipeline.
Does this meet the goal?

A. Yes
B. No

Expose Correct Answer

Answer : **B**

Explanation:
Instead use Octopus Tentacle.
References:
https://explore.emtecinc.com/blog/octopus-for-automated-deployment-in-devops-models

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