AZ-400 Dumps

Microsoft Azure DevOps Solutions (beta)

https://www.certleader.com/AZ-400-dumps.html

NEW QUESTION 1
Note: This question is part of a ser les 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 m this section, you will NOT be able to return to it As a result, these questions will not appear m the review screen
You integrate a cloud-hosted Jenkins server and a new Azure Dev Ops deployment. You need Azure Dev Ops lo send a notification to Jenkins when a developer commits changes to a branch in Azure Repos.
Solution: You create an email subscription to an Azure DevOps notification. Does this meet the goal?

A. Yes
B. NO

Answer: B

Explanation:
You can create a service hook for Azure DevOps Services and TFS with Jenkins. References:
https://docs.microsoft.com/en-us/azure/devops/service-hooks/services/jenkins

NEW QUESTION 2
Note: This question part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the staled goals. Some question sets might have more than one correct solution, whale others might not have a correct solution.
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You integrate a cloud-hosted Jenkins server and a new Azure DevOps depsoyment. You need Azure DevOps to send a notification to Jenkins when a developer commits changes to a branch in Azure Repos.
Solution: You add a trigger to the build pipeline. Does this meet the goal?

A. Yes
B. NO

Answer: B

Explanation:
You can create a service hook for Azure DevOps Services and TFS with Jenkins. References:
https://docs.microsoft.com/en-us/azure/devops/service-hooks/services/jenkins

NEW QUESTION 3
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.
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You have an approval process that contains a condition. The condition requires that releases be approved by a team leader before they are deployed.
You haw a pokey stating that approvals must occur within eight hours.
You discover that deployments only if the approvals take longer than two hours. You need to ensure that the deployments only fail if the approvals take longer than hours.
Solution From Post -deployment conditions, you modify the Timeout setting for post-deployment approvals.
Does this meet the goal?

A. Yes
B. NO

Answer: B

NEW QUESTION 4
Note: This question is part of * 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 sett might have more than one correct solution, while others might not have a correct solution.
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You have an approval process that contains a condition. The condition requires that releases be approved by a team leader before they are deployed.
You have a poky stating that approvals must occur within eight hour.
You discover that deployments fail if the approvals take longer than two hours. You need to ensure that the deployments only fail if the approvals take longer than eight hours.
Solution: From Post-deployment conditions, you modify the Time between reevaluation of gates option.
Does this meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Use a gate From Pre-deployment conditions instead. References: https://docs.microsoft.com/enus/ azure/devops/pipelines/release/approvals/gates

NEW QUESTION 5
You plan to create an image that will contain a .NET Core application.
You have a Dockerfile file that contains the following code. (Line numbers are included for reference only.)

```
01 FROM microsoft/dotnet:2.1-sdk
02 COPY ./
03 RUN dotnet publish -c Release -o out
04 FROM microsoft/dotnet:2.1-sdk
05 COPY -from=0 /out /
06 WORKDIR /
07 ENTRYPOINT ["dotnet", "appl.dll"]
```

You need to ensure that the image is as small as possible when the image is built. Which line should you modify in the file?

A. 1
B. 3
C. 4
D. 7

Answer: A

Explanation:
Multi-stage builds (in Docker 17.05 or higher) allow you to drastically reduce the size of your final image, without struggling to reduce the number of intermediate layers and files.
With multi-stage builds, you use multiple FROM statements in your Dockerfile. Each FROM instruction can use a different base, and each of them begins a new stage of the build. You can selectively copy artifacts from one stage to another, leaving behind everything you don¡¦t want in the final image.
References: https://docs.docker.com/develop/develop-images/multistage-build/#usemulti- stage-builds

NEW QUESTION 6
Your company builds a multi tier web application.
>You use Azure DevOps and host the production application on Azure virtual machines.
Your team prepares an Azure Resource Manager template of the virtual machine that you mil use to test new features.
You need to create a staging environment in Azure that meets the following requirements:
¡E Minimizes the cost of Azure hosting
¡E Provisions the virtual machines automatically
¡E Use* the custom Azure Resource Manager template to provision the virtual machines
What should you do?

A. In Azure DevOps, configure new tasks in the release pipeline to create and delete the virtual machines m Azure DevTest Labs.
B. From Azure Cloud Shell, run Azure PowerShell commands to create and delete the new virtual machines in a staging resource group.
C. In Azure DevOps, configure new tasks in the release pipeline to deploy to Azure Cloud Services.
D. In Azure Cloud Shell, run Azure CLI commands to create and delete the new virtual machines in a staging resource group.

Answer: A

Explanation:
You can use the Azure DevTest Labs Tasks extension that's installed in Azure DevOps to easily integrate your CI/CD build-and-release pipeline with Azure DevTest Labs. The extension installs three tasks:
„hCreate a VM
„hCreate a custom image from a VM
„hDelete a VM
The process makes it easy to, for example, quickly deploy a "golden image" for a specific test task and then delete it when the test is finished.
References: https://docs.microsoft.com/en-us/azure/lab-services/devtest-labintegrate- ci-cd-vsts

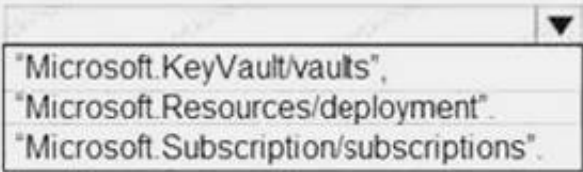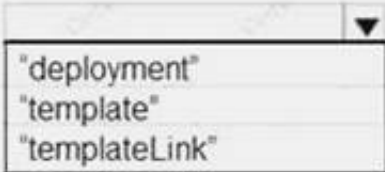**NEW QUESTION 7**
HOTSPOT
You have a project Azure DevOps.
You plan to create a build pipeline that will deploy resources by using Azure Resource Manager templates. The templates will reference secretes stored in Azure Key Vault.
Yu need to ensure that you can dynamically generate the resource ID of the key vault during template deployment.
What should you include in the template? To answer, select eh appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

```
"resources":[
    {
      "apiversion": "2018-05-01",
      "name" : "secrets",
      "type": [                            ▼]
              "Microsoft.KeyVault/vaults",
              "Microsoft.Resources/deployment".
              "Microsoft.Subscription/subscriptions".
      "properties":{
         "mode" : "Incremental",
         [              ▼] :{
          "deployment"
          "template"
          "templateLink"
```

```
contentVersion" : "1.0.0.0",
         "uri" : "[uri(parameters('_artifactsLocation'),
         concat('./nested/sqlserver.json',
         parameters('_artifactsLocationSasToken')))]"
    },
    "parameters":{
       "secret":{
          "reference":{
             "keyVault":{
                "id": "[resourceId(parameters('vaultSubscription'),
                parameters('vaultResourceGroupName'),
                'Microsoft.KeyVault/vaults',
                parameters('vaultName'))]"
             },
             "secretName": "[parameters('secretName')]"
             }
           }
         }
       }
     }
   ],
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:

```
"resources":[
    {
      "apiversion": "2018-05-01",
      "name" : "secrets",
      "type": [                            ▼]
              "Microsoft.KeyVault/vaults",
              "Microsoft.Resources/deployment".
              "Microsoft.Subscription/subscriptions".
      "properties":{
         "mode" : "Incremental",
         [              ▼] :{
          "deployment"
          "template"
          "templateLink"
```

```
contentVersion" : "1.0.0.0",
         "uri" : "[uri(parameters('_artifactsLocation'),
         concat('./nested/sqlserver.json',
         parameters('_artifactsLocationSasToken')))]"
```

```
        },
    "parameters":{
        "secret":{
            "reference":{
                "keyVault":{
                    "id": "[resourceId(parameters('vaultSubscription'),
                    parameters('vaultResourceGroupName'),
                    'Microsoft.KeyVault/vaults',
                    parameters('vaultName'))]"
                },
                "secretName": "[parameters('secretName')]"
            }
            }
        }
    }
],
```

NEW QUESTION 8
You manage build pipelines and deployment pipelines by using Azure DevOps.
Your company has a team of 500 developers. New members are added continual lo the team
You need to automate me management of users and licenses whenever possible Which task must you perform manually?

A. modifying group memberships
B. procuring licenses
C. adding users
D. assigning entitlements

Answer: B

Explanation:
References:
https://docs.microsoft.com/en-us/azure/devops/organizations/accounts/migrate-togroup- based-resource-management?view=vsts&tabs=new-nav
https://docs.microsoft.com/enus/ rest/api/azure/devops/memberentitlementmanagement/?view=azure-devopsrest-
5.0

NEW QUESTION 9
DRAG DROP
You need to increase the security of your team's development process.
Which type of security tool should you recommend for each stage of the development process? To answer, drag the appropriate security toots to the correct stages. Each security tool 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.

Security Tools	Answer Area	
Penetration testing	Pull request:	
Static code analysis	Continuous integration:	
Threat modeling	Continuous delivery:	

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Threat modeling
Threat modeling¡¦s motto should be, ¡§The earlier the better, but not too late and never ignore.¡¨
Box 2: Static code analysis
Validation in the CI/CD begins before the developer commits his or her code. Static code analysis tools in the IDE provide the first line of defense to help ensure that security vulnerabilities are not introduced into the CI/CD process.
Box 3: Penetration testing
Once your code quality is verified, and the application is deployed to a lower environment like development or QA, the process should verify that there are not any security vulnerabilities in the running application. This can be accomplished by executing automated penetration test against the running application to scan it for vulnerabilities.
References: https://docs.microsoft.com/en-us/azure/devops/articles/securityvalidation- cicd-pipeline?view=vsts

NEW QUESTION 10

Your company plans to use an agile approach to software development You need to recommend an application to provide communication between members of the development team who work in locations around the world. The application must meet the following requirements:

¡E Provide the ability to isolate the members of efferent project teams into separate communication channels and to keep a history of the chats within those channels.

¡E Be available on Windows 10, Mac OS, iOS, and Android operating systems.

¡E Provide the ability to add external contractors and suppliers to projects.

¡E Integrate directly with Azure DevOps. What should you recommend?

A. Octopus
B. Bamboo
C. Microsoft Project
D. Slack

Answer: D

Explanation:
Slack is a popular team collaboration service that helps teams be more productive by keeping all communications in one place and easily searchable from virtually anywhere. All your messages, your files, and everything from Twitter, Dropbox, Google Docs, Azure DevOps, and more all together. Slack also has fully native apps for iOS and Android to give you the full functionality of Slack wherever you go. Integrated with Azure DevOps

This integration keeps your team informed of activity happening in its Azure DevOps projects. With this integration, code check-ins, pull requests, work item updates, and build events show up directly in your team's Slack channel.

Note: Microsoft Teams would also be a correct answer, but it is not an option here. References:
https://marketplace.visualstudio.com/items?itemName=ms-vsts.vss-services-slack

NEW QUESTION 10
DRAG DROP
You need to recommend project metrics for dashboards in Azure DevOps. Which chart widgets should you recommend for each metric? To answer, drag the appropriate chart widgets to the correct metrics. Each chart widget 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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Box 1: Lead time
Lead time measures the total time elapsed from the creation of work items to their completion.
Box 2: Cycle time
Cycle time measures the time it takes for your team to complete work items once they begin actively working on them.
Box 3: Burndown
Burndown charts focus on remaining work within a specific time period. Incorrect Answers:
Velocity provides a useful metric for these activities: Support sprint planning
Forecast future sprints and the backlog items that can be completed
A guide for determining how well the team estimates and meets their planned
commitments References:
https://docs.microsoft.com/en-us/azure/devops/report/dashboards/velocityguidance? view=vsts
https://docs.microsoft.com/en-us/azure/devops/report/dashboards/cycle-time-andlead- time?view=vsts
https://docs.microsoft.com/en-us/azure/devops/report/dashboards/configureburndown- burnup-widgets?view=vsts

NEW QUESTION 12
HOTSPOT
You are configuring a release pipeline in Azure DevOps as shown in the exhibit.

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
 Box 1: 5
There are five stages: Development, QA, Pre-production, Load Test and Production. They all have triggers.
Box 2: The Internal Review stage References: https://docs.microsoft.com/enus/ azure/devops/pipelines/release/triggers
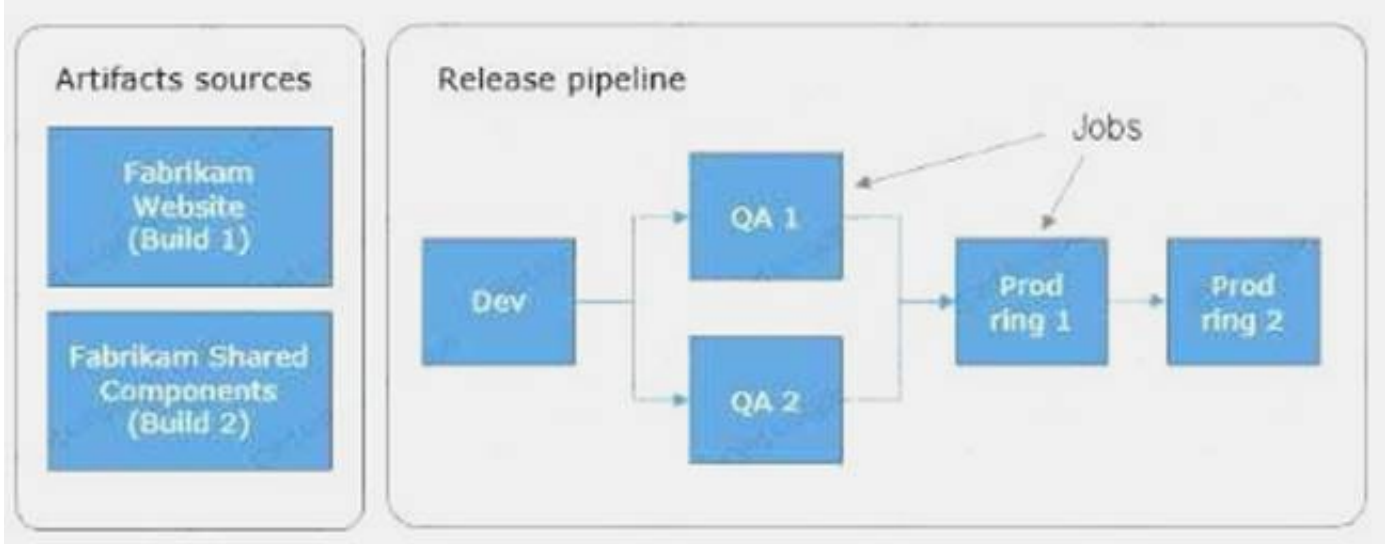

NEW QUESTION 14
Your company has a project in Azure DevOps for a new web application. The company uses Service Now for change management.
You need to ensure that a change request is processed before any components can be deployed to the production environment.
What are two ways to integrate into the Azure DevOps release pipeline? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

A. Define a deployment control that invokes the Service Now SOAP API.
B. Define a post deployment gate after the deployment to the QA stage.
C. Define a deployment control that invokes the ServiceNow REST API.
D. Define a pre deployment gate before the deployment to the Prod stag

Answer: BD

Explanation:
An example of a release pipeline that can be modeled through a release pipeline in shown below:

In this example, a release of a website is created by collecting specific versions of two builds (artifacts), each from a different build pipeline. The release is first deployed to a Dev stage and then forked to two QA stages in parallel. If the deployment succeeds in both the QA stages, the release is deployed to Prod ring 1

and then to Prod ring 2. Each production ring represents multiple instances of the same website deployed at various locations around the globe.
References: https://docs.microsoft.com/en-us/azure/devops/pipelines/release

NEW QUESTION 18
DRAG DROP
Your company has four projects. The version control requirements for each project are shown in the following table.

Project	Requirement
Project 1	Project leads must be able to restrict access to individual files and folders in the repository.
Project 2	The version control system must enforce the following rules before merging any changes to the main branch. • Changes must be reviewed by at least two project members. • Changes must be associated to at least one work team.
Project 3	The project members must be able to work in Azure Repos directly from Xcode.
Project 4	The release branch must only be viewable or editable by the project leads.

You plan to use Azure Repos for all the projects.
Which version control system should you use for each project? To answer, drag the appropriate version control systems to the correct projects. Each version control system 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.

Version Control Systems

- Git
- Perforce
- Subversion
- Team Foundation Version Control

Answer Area

- Project 1:
- Project 2:
- Project 3:
- Project 4:

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Team Foundation Version Control
TFVC lets you apply granular permissions and restrict access down to a file level. Box 2: Git
Git is the default version control provider for new projects. You should use Git for version control in your projects unless you have a specific need for centralized version control features in TFVC.
Box 3: Subversion
Note: Xcode is an integrated development environment (IDE) for macOS containing a suite of software development tools developed by Apple
Box 4: Git
Note: Perforce: Due to its multitenant nature, many groups can work on versioned files. The server tracks changes in a central database of MD5 hashes of file content, along with descriptive meta data and separately retains a master repository of file versions that can be verified through the hashes.
References: https://searchitoperations.techtarget.com/definition/Perforce-Software
https://docs.microsoft.com/en-us/azure/devops/repos/git/share-your-code-in-gitxcode https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/overview

NEW QUESTION 20
DRAG DROP
You mc configuring Azure DevOps build pipelines. You plan to use hosted build agents.
Which build agent pool should you use to compile each application type? To answer, drag the appropriate built agent pools to the correct application types. Each butt agent pool 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.

Build Agent Pools

- Hosted Windows Container
- Hosted Ubuntu 1604
- Hosted macOS
- Hosted
- Default

Answer Area

An application that runs on iOS: [   ]

An Internet Information Services (IIS) web application
that runs in Docker: [   ]

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Hosted macOS
Hosted macOS pool (Azure Pipelines only): Enables you to build and release on macOS without having to configure a self-hosted macOS agent. This option affects where your data is stored.
Box 2: Hosted
Hosted pool (Azure Pipelines only): The Hosted pool is the built-in pool that is a collection of Microsoft-hosted agents.
Incorrect Answers:
Default pool: Use it to register self-hosted agents that you've set up.
Hosted Windows Container pool (Azure Pipelines only): Enabled you to build and release inside Windows containers. Unless you're building using containers, Windows builds should run in the Hosted VS2017 or Hosted pools.
References: https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/v2-osx

NEW QUESTION 25
Your company uses cloud-hosted Jenkins for builds.
You need to ensure that Jenkins can retrieve source code from Azure Repos. Which three actions should you perform? Each correct answer presents part of the solution
NOTE: Each correct answer selection is worth one point

A. Add the Team Foundation Server (TFS) plug-in to Jenkins.
B. Create a personal access token m your Azure DevOps account.
C. Create a webhook in Jenkins.
D. Add a domain to your Jenkins account.
E. Create a service hook m Azure DevOps.

Answer: ABE

Explanation:
References:
https://blogs.msdn.microsoft.com/devops/2017/04/25/vsts-visual-studio-teamservices- integration-with-jenkins/
http://www.aisoftwarellc.com/blog/post/how-to-setup-automated-builds-usingjenkins- and-visual-studio-team-foundation-server/2044

NEW QUESTION 27
You plan to share packages that you wrote, tested, validated, and deployed by using Azure Artifacts.
You need to release multiple builds of each package by using a single feed. The solution must limit the release of packages that are in development.
What should you use?

A. global symbols
B. local symbols
C. upstream sources
D. views

Answer: C

Explanation:
Upstream sources enable you to manage all of your product's dependencies in a single feed. We recommend publishing all of the packages for a given product to that product's feed, and managing that product's dependencies from remote feeds in the same feed, via upstream sources. This setup has a few benefits:
„hSimplicity: your NuGet.config, .npmrc, or settings.xml contains exactly one feed (your feed).
„hDeterminism: your feed resolves package requests in order, so rebuilding
the same codebase at the same commit or changeset uses the same set of packages
„hProvenance: your feed knows the provenance of packages it saved via upstream sources, so you can verify that you're using the original package, not a custom or malicious copy published to your feed
„hPeace of mind: packages used via upstream sources are guaranteed to be saved in the feed on first use; if the upstream source is disabled/removed, or the remote feed goes down or deletes a package you depend on, you can continue to develop and build
References: https://docs.microsoft.com/enus/ azure/devops/artifacts/concepts/upstream-sources?view=vsts

NEW QUESTION 30
Your company . concerned that when developers introduce open source Libraries, it creates licensing compliance issues.
You need to add an automated process to the build pipeline to detect when common open source libraries are added to the code base.
What should you use?

A. Code Style
B. Microsoft Visual SourceSafe
C. Black Duck
D. Jenkins

Answer: C

Explanation:
Secure and Manage Open Source Software
Black Duck helps organizations identify and mitigate open source security, license compliance and code-quality risks across application and container portfolios.
Black Duck Hub and its plugin for Team Foundation Server (TFS) allows you to automatically find and fix open source security vulnerabilities during the build process, so you can proactively manage risk. The integration allows you to receive alerts and fail builds when any Black Duck Hub policy violations are met.
Note: WhiteSource would also be a good answer, but it is not an option here. References:
https://marketplace.visualstudio.com/items?itemName=black-duck-software.hub-tfs

NEW QUESTION 31
You have 50 Node.js-based projects that you scan by using WhiteSource. Each project includes Package.json, Package-lock.json, and Npm-shrinkwrap.json files.
You need to minimize the number of libraries reports by WhiteSource to only the libraries that you explicitly reference.
What should you do?

A. Configure the File System Agent plug in.
B. Delete Package lock.json.
C. Configure the Artifactory plug-in.
D. Add a devDependencies section to Package-lock.jso

Answer: D

Explanation:
Separate Your Dependencies
Within your package.json file be sure you split out your npm dependencies between devDependencies and (production) dependencies. The key part is that you must then make use of the --production flag when installing the npm packages. The -- production flag will exclude all packages defined in the devDependencies section. References:
https://blogs.msdn.microsoft.com/visualstudioalmrangers/2017/06/08/manage-youropen- source-usage-and-security-as-reported-by-your-cicd-pipeline/

NEW QUESTION 34
Your company creates a web application.
You need to recommend a solution that automatically sends to Microsoft Teams a dairy summary of the exceptions that occur m the application.
Which two Azure services should you recommend? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

A. Microsoft Visual Studio App Center
B. Azure DevOps Project
C. Azure Logic Apps
D. Azure Pipelines
E. Azure Application Insights

Answer: CE

Explanation:
References:
https://docs.microsoft.com/en-us/azure/azure-monitor/app/asp-net-exceptions https://docs.microsoft.com/en-us/azure/azure-monitor/app/automate-custom-reports

NEW QUESTION 38
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.
Your company has a project in Azure DevOps for a new web application. You need to ensure that when code is checked in, a build runs automatically.
Solution: From the Pre-deployment conditions settings of the release pipeline, you select Batch changes while a build is in progress.
Does this meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Use a Pull request trigger. Note: Batch changes
Select this check box if you have a lot of team members uploading changes often and you want to reduce the number of builds you are running. If you select this option, when a build is running, the system waits until the build is completed and then queues another build of all changes that have not yet been built.
References: https://docs.microsoft.com/en-us/azure/devops/pipelines/build/triggers

NEW QUESTION 40
Your company is concerned that when developers introduce open source libraries, it creates licensing compliance issues.
You need to add an automated process to the build pipeline to detect when common open source libraries are added to the code base.

What should you use?

A. Microsoft Visual SourceSafe
B. PDM
C. WhiteSource
D. OWASP ZAP

Answer: C

Explanation:
WhiteSource is the leader in continuous open source software security and compliance management. WhiteSource integrates into your build process, irrespective of your programming languages, build tools, or development environments. It works automatically, continuously, and silently in the background, checking the security, licensing, and quality of your open source components against WhiteSource constantly-updated definitive database of open source repositories.
Azure DevOps integration with WhiteSource Bolt will enable you to:
„hDetect and remedy vulnerable open source components.
„hGenerate comprehensive open source inventory reports per project or build.
„hEnforce open source license compliance, including dependencies¡¦ licenses.
„hIdentify outdated open source libraries with recommendations to update. References: https://www.azuredevopslabs.com/labs/vstsextend/WhiteSource/

NEW QUESTION 44
Your company develops an app for OS. All users of the app have devices that are members of a private distribution group in Microsoft Visual Studio App Center.
You plan to distribute a new release of the app.
You need to identify which certificate file you require to distribute the new release from App Center.
Which file type should you upload to App Center?

A. .cer
B. .pvk
C. .pfx
D. .p12

Answer: D

NEW QUESTION 48
Your company hosts a web application in Azure. The company uses Azure Pipelines for the build and release management of the application.
Stakeholders report that the past few releases have negatively affected system performance.
You configure alerts in Azure Monitor.
You need to ensure that new releases are only deployed to production if the releases meet defined performance baseline criteria in the staging environment first
What should you use to prevent the deployment of releases that fail to meet the performance baseline?

A. a trigger
B. an Azure function
C. a gate
D. an Azure Scheduler job

Answer: C

NEW QUESTION 49
Your company is building a new solution in Java.
The company currently uses a SonarQube server to analyze the code of .NET solutions.
You need to analyze and monitor the code quality of the Java solution. Which task types should you add to the build pipeline?

A. Octopus
B. Chef
C. Maven
D. Grunt

Answer: A

NEW QUESTION 53
Your company has a project in Azure DevOps.
You need to ensure that when there are multiple builds pending deployment only the most recent build is deployed.
What should you use?

A. deployment queue settings
B. deployment conditions
C. release gates
D. pull request triggers

Answer: A

NEW QUESTION 56
Your company develops a client banking application that processes a large volume of data.
Code quality is an ongoing issue for the company. Recently, the code quality has deteriorated because of an increase in time pressure on the development team.
You need to implement static code analysis.
During which phase should you use static code analysis?

A. build
B. production release

C. staging
D. integration testing

Answer: B

NEW QUESTION 59
Your company is concerned that when developers introduce open source libraries, it creates licensing compliance issues.
You need to add an automated process to the build pipeline to detect when common open source libraries are added to the code base.
What should you use?

A. PDM
B. OWASPZAP
C. WhiteSource
D. Jenkins

Answer: C

NEW QUESTION 62
Your company has a project in Azure DevOps for a new application. The application will be deployed to several Azure virtual machines that run Windows Server 2016.
You need to recommend a deployment strategy for the virtual machines. The strategy must meet the following requirements:
¡E Ensure that the virtual machines maintain a consistent configuration.
¡E Minimize administrative effort to configure the virtual machines What should you include in the recommendation?

A. Deployment YAML and Azure pipeline stage templates
B. Azure Resource Manager templates and the Custom Script Extension for Windows
C. Azure Resource Manager templates and the PowerShell Desired State Configuration (DSC) extension for Windows
D. Deployment YAML and Azure pipeline deployment groups

Answer: C

Explanation:
Case Study: 1 Overview
Existing Environment
Litware, Inc. e an independent software vendor (ISV) Litware has a main office and five branch offices.
Application Architecture
The company¡s primary application is a single monolithic retirement fund management system based on ASP.NE T web forms that use logic written in V8.NET. Some new sections of the application are written in C#.
Variations of the application are created for individual customers. Currently, there are more than 80 have code branches in the application¡s code base.
The application was developed by using Microsoft Visual Studio. Source code is stored in Team Foundation Server (TFS) in the main office. The branch offices access of the source code by using TFS proxy servers.
Architectural Issues
Litware focuses on writing new code for customers. No resources are provided to refactor or remove existing code. Changes to the code base take a long time, AS dependencies are not obvious to individual developers.
Merge operations of the code often take months and involve many developers. Code merging frequently introduces bugs that are difficult to locate and resolve.
Customers report that ownership costs of the retirement fund management system increase continually. The need to merge unrelated code makes even minor code changes expensive.
Requirements Planned Changes
Litware plans to develop a new suite of applications for investment planning. The investment planning Applications will require only minor integration with the easting retirement fund management system.
The investment planning applications suite will include one multi-tier web application and two iOS mobile applications. One mobile application will be used by employees; the other will be used by customers.
Litware plans to move to a more agile development methodology. Shared code will be extracted into a series of package.
Litware has started an internal cloud transformation process and plans to use cloud based services whenever suitable.
Litware wants to become proactive m detecting failures, rather than always waning for customer bug reports.
Technical Requirements
The company's investment planning applications suite must meet the following technical requirements:
¡E New incoming connections through the firewall must be minimized.
¡E Members of a group named Developers must be able to install packages.
¡E The principle of least privilege must be used for all permission assignments
¡E A branching strategy that supports developing new functionality in isolation must be used.
¡E Members of a group named Team leaders must be able to create new packages and edit the permissions of package feeds
¡E Visual Studio App Center must be used to centralize the reporting of mobile application crashes and device types in use.
¡E By default, all App Center must be used to centralize the reporting of mobile application crashes and device types in use.
¡E Code quality and release quality are critical. During release, deployments must not proceed between stages if any active bugs are logged against the release.
¡E The mobile applications must be able to call the share pricing service of the existing retirement fund management system. Until the system is upgraded, the service will only support basic authentication over HUPS.
¡E The required operating system configuration tor the test servers changes weekly. Azure Automation State Configuration must be used to ensure that the operating system on each test servers configured the same way when the servers are created and checked periodically.
Current Technical
The test servers are configured correctly when first deployed, but they experience configuration drift over time. Azure Automation State Configuration fails to correct the configurations.
Azure Automation State Configuration nodes are registered by using the following command.

```
Register-AzureRmAutomationDscNode
    -ResourceGroupName 'TestResourceGroup'
    -AutomationAccountName 'LitwareAutomationAccount'
    -AzureVMName $vmanme
    -ConfigurationMode 'ApplyOnly'
```

NEW QUESTION 67
HOTSPOT
You need to configure a cloud service to store the secrets required by the mobile applications to call the share.
What should you include in the solution? To answer, select the appropriate options m the answer ate., NOTE: Each correct selection is worth one point.

Required secrets:
- Certificate
- Personal access token
- Shared Access Authorization token
- Username and password

Storage location:
- Azure Data Lake
- Azure Key Vault
- Azure Storage with HTTP access
- Azure Storage with HTTPS access

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Every request made against a storage service must be authorized, unless the
request is for a blob or container resource that has been made available for public or signed access. One option for authorizing a request is by using Shared Key.
Scenario: The mobile applications must be able to call the share pricing service of the existing retirement fund management system. Until the system is upgraded, the service will only support basic authentication over HTTPS.
The investment planning applications suite will include one multi-tier web application and two iOS mobile application. One mobile application will be used by employees; the other will be used by customers.
References: https://docs.microsoft.com/en-us/rest/api/storageservices/authorizewith- shared-key

NEW QUESTION 72
To resolve the current technical issue, what should you do to the Register- AzureRmAutomationDscNode command?

A. Change the value of the ConfigurationMode parameter.
B. Replace the Register-AzureRmAutomationDscNode cmdlet with Register-AzureRmAutomationScheduledRunbook
C. Add the AllowModuleOverwrite parameter.
D. Add the DefaultProfile parameter.

Answer: A

Explanation:
Change the ConfigurationMode parameter from ApplyOnly to ApplyAndAutocorrect. The Register-AzureRmAutomationDscNode cmdlet registers an Azure virtual machine as an APS Desired State Configuration (DSC) node in an Azure Automation account.
Scenario: Current Technical Issue
The test servers are configured correctly when first deployed, but they experience configuration drift over time. Azure Automation State Configuration fails to correct the configurations.
Azure Automation State Configuration nodes are registered by using the following command.

```
Register-AzureRmAutomationDscNode
    -ResourceGroupName 'TestResourceGroup'
    -AutomationAccountName 'LitwareAutomationAccount'
    -AzureVMName $vmanme
    -ConfigurationMode 'ApplyOnly'
```

References: https://docs.microsoft.com/enus/ powershell/module/azurerm.automation/registerazurermautomationdscnode? view=azurermps-6.13.0

NEW QUESTION 75
Where should the build and release agents for the investment planning applications suite run? To answer, select the appropriate options in the answer area
NOTE: Each correct selection is worth one point.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Build agent: A source control system

Release agent: The developers' computers

Case Study: 2 Overview
Existing Environment
This is a case study Case studies are not limed separately. You can use as much exam time at 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 m 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 the case study, a review screen will appear. This screen allows you to review your answers and to mate 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 buttions in the left pane to explore the content of the case study before you answer the questions. Clicking these buttions displays information such as business requirements, existing environment and problem statements. If the case study has an All Information tab, note that the information displayed on identical to the Information displayed on the subsequent tabs. When you are ready to answer a question, click the question button to return to the question.

Requirements
Contoso plans to improve its IT development and operations processes implementing Azue DevOps principles. Contoso has an Azure subscription and creates an Azure DevOPs organization.

The Azure DevOps organization includes:
„hThe Docker extension
„hA deployment pool named Pool7 that contains 10 Azure virtual machines that run Windows Server 2016.

The Azure subscription contains an Azure Automation account. Planned Changes
Contoso plans to create projects in Azure DevOps as shown in the following table.

Project name	Project details
Project 1	Project1 will provide support for incremental builds and third-party SDK components
Project 2	Project2 will use an automatic build policy. A small team of developers named Team2 will work independently on changes to the project. The Team2 members will not have permissions to Project2.
Project 3	Project3 will be integrated with SonarQube
Project 4	Project4 will provide support for a build pipeline that creates a Docker image and pushes the image to the Azure Container Registry. Project4 will use an existing Dockerfile.
Project 5	Project5 will contain a Git repository in Azure Reports and a continuous integration trigger that will initiate a build in response to any change except for changes within /folder1 of the repository.
Project 6	Project6 will provide support for build and deployment pipelines. Deployment will be allowed only if the number of current work items representing active software bugs is 0.
Project 7	Project7 will contain a target deployment group named Group7 that maps to Pool7. Project7 will use Azure Automation State Configuration to maintain the desired state of the computers in Group7.

Technical Requirements
Contoso identities the following technical requirements:
¡E Implement build agents rot Project 1.
¡E Whenever possible, use Azure resources
¡EAvoid using deprecated technologies
¡E Implement a code flow strategy for Project2 that will:
¡EEnable Team 2 to submit pull requests for Project2.
¡E Enable Team 2 to work independently on changes to a copy of Project?
¡E Ensure that any intermediary changes performed by Tram2 on a copy of Project2 will be subject to the same restrictions as the ones defied in the build policy of Project2.
¡E Whenever possible. Implement automation and minimize administrative effort.
¡E Implement Protect3, Project5, Project6, and Project7 based on the planned changes.
¡E Implement Project4 and configure the project to push Docker images to Azure Container Reentry.

NEW QUESTION 78
You add the virtual machines as managed nodes in Azure Automation State Configuration.
You need to configure the computer in Group7. What should you do?

A. Run the Register-AzureRmAutomationDscNode Azure Powershell cmdlet.
B. Modify the ConfigurationMode property of the Local Configuration Manager (LCM).
C. Install PowerShell Core.
D. Modify the RefreshMode property of the Local Configuration Manager (LCM).

Answer: A

Explanation:
The Register-AzureRmAutomationDscNode cmdlet registers an Azure virtual machine as an APS Desired State Configuration (DSC) node in an Azure Automation account.
Scenario: The Azure DevOps organization includes: The Docker extension

A deployment pool named Pool7 that contains 10 Azure virtual machines that run Windows Server 2016

| Project 7 | Project7 will contain a target deployment group named Group7 that maps to Pool7. Project7 will use Azure Automation State Configuration to maintain the desired state of the computers in Group7. |

References: https://docs.microsoft.com/enus/ powershell/module/azurerm.automation/register-azurermautomationdscnode

NEW QUESTION 83
HOTSPOT
How should you configure the filters for the Project5 trigger? To answer, select the appropriate option in the answer area.
NOTE: Each correct selection is worth one point.

Set a [▼] /folder1.
- branch filter to exclude
- branch filter to include
- path filter to exclude
- path filter to include

Set a [▼] /.
- branch filter to exclude
- branch filter to include
- path filter to exclude
- path filter to include

@

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Scenario:

| Project5 will contain a Git repository in Azure Reports and a continuous integration trigger that will initiate a build in response to any change except for changes within /folder1 of the repository. |

References: https://docs.microsoft.com/en-us/azure/devops/pipelines/build/triggers

NEW QUESTION 84
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