Exam Session - Knowledge Check: Introduction to Azure Resource Manager

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#1

What is Azure Resource Manager's (ARM) default template deployment mode?

✗ Open update mode

✗ Secure mode

✗ Complete update

✓ Incremental mode

Explanation

When deploying your resources, you specify that the deployment is either an incremental update or a complete update. The primary difference between these two modes is how Resource Manager handles existing resources in the resource group that are not in the template. The default is Incremental mode and is less destructive.

https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-template-deploy#incremental-and-complete-deployments

#2

Which section of the ARM template consists of key-value pairs that are defined once and can be used throughout the template?

✓ Variables

✗ Parameters

✕
Functions

✕
Outputs

Explanation

Variables are key-value pairs that are defined once and can be used throughout the template. As I said earlier, they are more like constant values as they can't be assigned to once defined. Variables don't have to be simple data types, they can be nested and complex JSON objects.

/course/azure-arm-intro/arm-templates/
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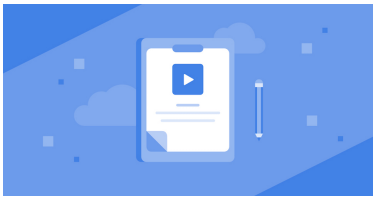
ARM Templates
Course:Introduction to Azure Resource Manager



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#3

Which section of an ARM template allows you to specify what Azure services such as virtual machines, virtual networks, or storage accounts, for example, the template will deploy?

✕
Parameters

✕
Variables

✓
Resources

✕
Outputs

Explanation

The resource section is the main event, if you will. This is where we define the resources or services that we want to deploy. For obvious reasons, different resources will have different properties but there are some properties that all resources must contain. Every resource

needs a name and every resource is of a type and is located somewhere. The resource shown here is an app service and depends on another resource of the type app service plan.

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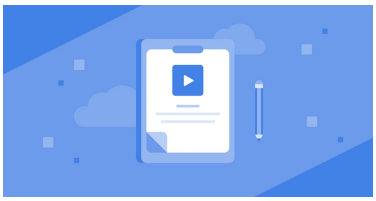

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#4

An ARM Template is idempotent. What does the term idempotent mean?

✓
It means that actions requested in the template are executed in Azure only once, and additional requests have no effect.

✗
If any part of the operation fails, the entire operation fails.

✗
It allows ARM templates to create the desired deployment without needing each step explicitly defined in the template.

✗
It requires each explicit step to be defined in the ARM template in order to successfully create the desired deployment.

Explanation

An ARM template is a JSON file describing the resources or services that you want to deploy and it has many advantages. Templates are idempotent. This means changes are applied only once, which is exactly what we want. Associated with this is repeatability, and that each time we apply the template we get the same result.

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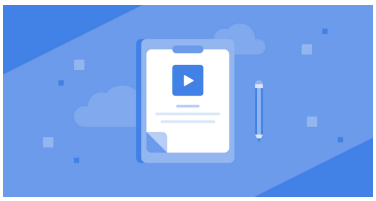
#5



Which section of the ARM template allows you to pass variables into the template to make its functionality more dynamic?

✓ Parameters

✗ Variables

✗ Outputs

✗ Functions

Explanation

Parameters allow you to pass variables into the template to make its functionality more dynamic. Each parameter object starts with its name. A parameter has a type that can be an int, bool, array, object, string, secure object, or secure string. You can also define a default value, allowed values and minimum and maximum lengths or values. Within the metadata section, you can give your parameter a description.

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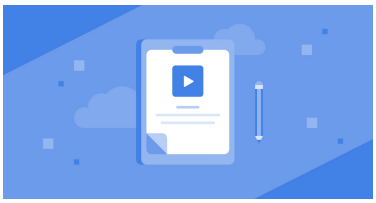

#6

In Azure Resource Manager (ARM) templates what advantage do variables provide?

✗ Variables provide resource types that can be deployed.

✗ Variables are used to customize resource deployment.

✓
Variables simplify template expressions.

✗
Variables provide security.

Explanation

Variables are placeholders. They are values that are used as JSON fragments in the template to simplify template language expressions.

https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-authoring-templates#template-format
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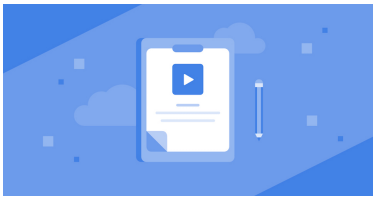
Demo: Managing Azure Resource Groups with Azure xPlat CLI
Course:Getting Started with Azure Cross-Platform CLI Automation



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#7

When creating an Azure Resource Manager (ARM) template, how can the template be deployed?

✓
A template can be deployed through PowerShell, Azure CLI or the REST API.

✗
A template can only be deployed through PowerShell.

✗
A template can only be deployed through PowerShell or the Azure CLI.

✗
A template can only be deployed through the Azure CLI.

Explanation

You can deploy, update, or delete all the resources for your required solution in a single, coordinated operation. You use a template for deployment and that template can work for different environments such as testing, staging, and production. ARM Templates can be

deployed, through PowerShell, AzureCLI, REST API, and the Azure Portal.

https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-quickstart-deploy
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Course Summary
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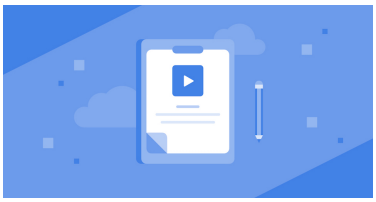

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#8

Which section of an ARM template allows you to provide values for daisy-chaining multiple templates?

✕ Parameters

✕ Variables

✕ Resources

✓ Outputs

Explanation

Output values are essentially the inverse of parameters. They enable you to output values from your template for either informational purposes or as inputs to linked templates, that we shall look at later, or to be used in scripts that executing the template.

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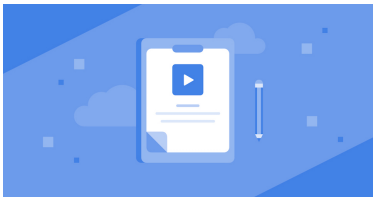

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#9

An ARM template is submitted as one object and Azure Resource Manager works out the order in which resources should be created. What advantages does this provide?

✓
This allows ARM templates to deploy multiple interdependent resources successfully.

✗
This allows ARM templates to deploy resources to perform a specific task and then delete them once the task is finished.

✗
This allows ARM templates to perform a task once and only once.

✗
Multiple ARM templates must be deployed in order to successfully create separate, interdependent resources.

Explanation

Unlike a procedural script where the order of commands is crucial, the template is submitted as one object and Azure Resource Manager works out the order that resources should be created in. So dependency management and orchestration of deployment operations are carried out correctly.

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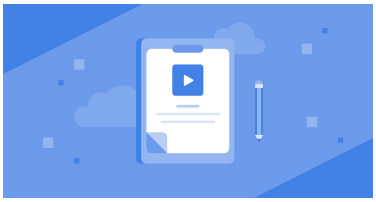

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#10

Which of the following is not a section of the Azure Resource Manager template?

✗
Variables

✗
Functions

✗

Outputs

Inputs

Explanation

The five sections of the ARM template are parameters, functions, variables, resources, and outputs.

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