

ARM Template for Creating a Resource Group and Storage Account

Introduction

This document provides an ARM (Azure Resource Manager) template for deploying a Resource Group and a Storage Account in Azure. ARM templates enable Infrastructure as Code (IaC), allowing consistent and repeatable deployments.

ARM Template Structure

An ARM template consists of the following sections:

1. **\$schema**: Defines the location of the JSON schema file.
 2. **contentVersion**: Specifies the version of the template.
 3. **parameters**: Accepts user-defined values to make the template reusable.
 4. **variables**: Stores values used within the template.
 5. **resources**: Defines the Azure resources to be deployed.
 6. **outputs**: Returns values after deployment (optional).
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ARM Template Code

Below is an ARM template for creating a Resource Group and a Storage Account:

```
{
  "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
    "resourceGroupName": {
      "type": "string",
      "metadata": {
        "description": "Name of the Resource Group."
      }
    },
    "location": {
      "type": "string",
      "defaultValue": "West Europe",
      "metadata": {
```

```
    "description": "Azure region for deployment."
  }
},
"storageAccountName": {
  "type": "string",
  "metadata": {
    "description": "Name of the Storage Account."
  }
}
},
"resources": [
  {
    "type": "Microsoft.Resources/resourceGroups",
    "apiVersion": "2021-04-01",
    "name": "[parameters('resourceGroupName')]",
    "location": "[parameters('location')]"
  },
  {
    "type": "Microsoft.Storage/storageAccounts",
    "apiVersion": "2021-09-01",
    "name": "[parameters('storageAccountName')]",
    "location": "[parameters('location')]",
    "sku": {
      "name": "Standard_LRS"
    },
    "kind": "StorageV2",
    "properties": {}
  }
]
}
```

Deployment Instructions

Using Azure CLI

1. Login to Azure:
2. `az login`
3. Deploy the template:
4. `az deployment sub create --location "West Europe" --template-file template.json --parameters resourceGroupName=MyResourceGroup storageAccountName=mystorageacct`

Using Azure PowerShell

```
New-AzSubscriptionDeployment -Location "West Europe" -TemplateFile template.json -  
resourceGroupName "MyResourceGroup" -storageAccountName "mystorageacct"
```

Conclusion

This ARM template simplifies the provisioning of a Resource Group and a Storage Account in Azure. Using Infrastructure as Code (IaC) ensures consistency and reduces manual deployment errors.