Azure ARM templates

Pros:

• Easy to export a working template from a deployed resource in the Azure Portal

• Fantastic (free) learning resources and QuickStart templates

• Azure native so it supports all Azure services from day 0

Cons:

• Learning curve around JSON

• Templates can get long and unruly

• Doesn't manage state, changes can be breaking

Azure ARM templates - sample

```json
1  {
2    "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",
3    "contentVersion": "1.0.0.0",
4    "metadata": {
5      "_generator": {
6        "name": "bicep",
7        "version": "0.6.18.56646",
8        "templateHash": "452359012016769790"
9      }
10   },
11   "parameters": {
12     "storageAccountType": {
13       "type": "string",
14       "defaultValue": "Standard_LRS",
15       "allowedValues": [
16         "Premium_LRS",
17         "Premium_ZRS",
18         "Standard_GRS",
19         "Standard_GZRS",
20         "Standard_LRS",
21         "Standard_RAGRS",
22         "Standard_RAGZRS",
23         "Standard_ZRS"
24       ],
25       "metadata": {
26         "description": "Storage Account type"
27       }
28     },
29     "location": {
30       "type": "string",
31       "defaultValue": "[resourceGroup().location]",
32       "metadata": {
33         "description": "Location for the storage account."
34       }
35     },
36     "storageAccountName": {
37       "type": "string",
38       "defaultValue": "[format('store{0}', uniqueString(resourceGroup().id))]",
39       "metadata": {
40         "description": "The name of the Storage Account"
41       }
42     }
43   },
```

```json
44   "resources": [
45     {
46       "type": "Microsoft.Storage/storageAccounts",
47       "apiVersion": "2021-06-01",
48       "name": "[parameters('storageAccountName')]",
49       "location": "[parameters('location')]",
50       "sku": {
51         "name": "[parameters('storageAccountType')]"
52       },
53       "kind": "StorageV2",
54       "properties": {}
55     }
56   ],
57   "outputs": {
58     "storageAccountName": {
59       "type": "string",
60       "value": "[parameters('storageAccountName')]"
61     },
62     "storageAccountId": {
63       "type": "string",
64       "value": "[resourceId('Microsoft.Storage/storageAccounts', parameters('storageAccountName'))]"
65     }
66   }
67 }
```

```
$ az deployment group create -g my-rg --template-file deploy.json
$
```