Authenticating GitHub repositories with Azure

Start

The first step towards continuous deployment to Azure is to enable our GitHub repository to authenticate to our Azure subscription, so that later our GitHub actions can start creating Azure resources as part of the CICD workflow.

In Play.Infra repo

1. Update README with steps to create GitHub service principal:

Create GitHub service principal
```powershell
$appId = az ad sp create-for-rbac -n "GitHub" --skip-assignment --query appId --output tsv

az role assignment create --assignee $appId --role "AcrPush" --resource-group $appname
az role assignment create --assignee $appId --role "Azure Kubernetes Service Cluster User Role" --resource-group $appname
az role assignment create --assignee $appId --role "Azure Kubernetes Service Contributor Role" --resource-group $appname
```

In Azure Portal

2. Browse to Active Directory → App Registrations

3. Select the **GitHub** app

4. Go to **Certificates & secrets → Federated credentials**

5. Click **Add credential** and enter these details:

   - Federated credential scenario: GitHub Actions deploying Azure resources
   - Organization: dotnetmicroservices01
   - Repository: play.identity
   - Entity type: Branch
   - GitHub branch name: main
   - Name: play.identity
   - Description: Identity microservice repository

In the next lesson you will configure a GitHub action to login to Azure.