

# Deploying owner resource tags in Azure

We are now required to provide owner tags for anything we deploy in Azure. Bicep templates without these will fail.

You can do this using azd to make this seamless in your deployments so you don't have to think about it.

1. Update azure.yaml to call az account show and get the UPN for the user deploying the bicep template and set an environment variable.
2. Add that variable to the bicep parameter file.
3. Add the bicep to create the tags. You can then pass these to each module your bicep calls to create Azure resources.

Here is an example using all three files in an azd deployment.

1. **azure.yaml** - example of generating the UPN (your email address)

 YAML

```
#snippet from azure.yaml preprovision hook
hooks:
  preprovision:
    windows:
      shell: pwsh
      run: |
        $userUpn = az account show --query user.name -o tsv
        azd env set AZURE_USER_UPN $userUpn
      interactive: false
      continueOnError: false
    posix:
      shell: sh
      run: |
        userUpn=$(az account show --query user.name -o tsv)
        azd env set AZURE_USER_UPN "$userUpn"
      interactive: false
      continueOnError: false
```

## 2. main.parameters.json - example Bicep parameters file that picks up the UPN environment variable

</> JSON

```
{
  "$schema":
    "https://schema.management.azure.com/schemas/2019-04-01/deploymentParameters.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
    "environmentName": {
      "value": "${AZURE_ENV_NAME}"
    },
    "location": {
      "value": "${AZURE_LOCATION}"
    },
    "principalId": {
      "value": "${AZURE_PRINCIPAL_ID}"
    },
    "userUpn": {
      "value": "${AZURE_USER_UPN}"
    }
  }
}
```

## 3. main. Bicep - Create a tags object and passing to the bicep module to deploy the Azure resource.

</> Terraform

```
targetScope = 'subscription'

@minLength(1)
@maxLength(64)
@description('Resource group name')
param environmentName string

@description('Primary location for all resources.')
param location string

@description('User object ID (GUID) for role assignments - required for security permissions.')
param principalId string = ''

@description('User Principal Name (email) for resource
```

```
tagging purposes.')
param userUpn string = ''

var tags = {
    owner: !empty(userUpn) ? userUpn : 'Unknown'
    'azd-env-name': environmentName
}

resource resourceGroup
'Microsoft.Resources/resourceGroups@2022-09-01' = {
    name: environmentName
    location: location
    tags: tags
}
```