

Sara Battistella

## LAB 2 - Administrera Molnlösningar

Inlämningsuppgift: Azure-infrastruktur med Bicep

Links

DEV: <https://devapp-web-dev-c3un7w4qzrlpm.azurewebsites.net/> (<https://devapp-web-dev-c3un7w4qzrlpm.azurewebsites.net/>)

TEST: <https://testapp-web-test-c3un7w4qzrlpm.azurewebsites.net/> (<https://testapp-web-test-c3un7w4qzrlpm.azurewebsites.net/>)

PROD: <https://prodapp-web-prod-c3un7w4qzrlpm.azurewebsites.net/> (<https://prodapp-web-prod-c3un7w4qzrlpm.azurewebsites.net/>)

Key Vault: <https://prodapp-kv-prod.vault.azure.net/secrets/MySecret-c3un7w4qzrlpm/613cad43c5874a28966dc350934934e6> (<https://prodapp-kv-prod.vault.azure.net/secrets/MySecret-c3un7w4qzrlpm/613cad43c5874a28966dc350934934e6>)

CLI outputs:

DEV:

sarab@SahZenbook MINGW64 ~/Desktop/Projects/Lab2-AdminCloud\_BicepInfrastructure (main)

```
$ az deployment group create \
```

```
--resource-group RG-sarabattistella \
```

```
--template-file src/main.bicep \
```

```
--parameters @parameters/dev.json \
```

```
--parameters secretValueFromCLI="cats3"
```

```
{
```

```
"id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/main",
```

```
"location": null,
```

```
"name": "main",
```

```
"properties": {
```

```
"correlationId": "2a5e805b-313f-473e-af64-88e6b4074943",
```

```
        "debugSetting": null,

        "dependencies": [

            {

                "dependsOn": [

                    {

                        "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
                        sarabattistella/providers/Microsoft.Resources/deployments/app-dev",

                        "resourceGroup": "RG-sarabattistella",

                        "resourceName": "app-dev",

                        "resourceType": "Microsoft.Resources/deployments"

                    },

                    {

                        "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
                        sarabattistella/providers/Microsoft.Resources/deployments/kv-dev",

                        "resourceGroup": "RG-sarabattistella",

                        "resourceName": "kv-dev",

                        "resourceType": "Microsoft.Resources/deployments"

                    }

                ],

                "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
                sarabattistella/providers/Microsoft.Resources/deploymentScripts/assignKvRoleScript",

                "resourceGroup": "RG-sarabattistella",

                "resourceName": "assignKvRoleScript",

                "resourceType": "Microsoft.Resources/deploymentScripts"

            },

            {

                "dependsOn": [
```

```
{  
  "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/kv-dev",  
  "resourceGroup": "RG-sarabattistella",  
  "resourceName": "kv-dev",  
  "resourceType": "Microsoft.Resources/deployments"  
},  
  
{  
  "apiVersion": "2022-09-01",  
  "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/kv-dev",  
  "resourceGroup": "RG-sarabattistella",  
  "resourceName": "kv-dev",  
  "resourceType": "Microsoft.Resources/deployments"  
}  
],  
  
"id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/app-dev",  
  "resourceGroup": "RG-sarabattistella",  
  "resourceName": "app-dev",  
  "resourceType": "Microsoft.Resources/deployments"  
}  
],  
  
  "diagnostics": null,  
  
  "duration": "PT2M39.0784317S",  
  
  "error": null,  
  
  "extensions": null,
```

```
    "mode": "Incremental",

    "onErrorDeployment": null,

    "outputResources": [

        {

            "apiVersion": null,

            "extension": null,

            "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
                sarabattistella/providers/Microsoft.KeyVault/vaults/devapp-kv-dev",

            "identifiers": null,

            "resourceGroup": "RG-sarabattistella",

            "resourceType": null

        },

        {

            "apiVersion": null,

            "extension": null,

            "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
                sarabattistella/providers/Microsoft.KeyVault/vaults/devapp-kv-dev/secrets/MySecret-c3un7w4qzrlpm",

            "identifiers": null,

            "resourceGroup": "RG-sarabattistella",

            "resourceType": null

        },

        {

            "apiVersion": null,

            "extension": null,

            "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
                sarabattistella/providers/Microsoft.Resources/deploymentScripts/assignKvRoleScript",

            "identifiers": null,
```

```
    "resourceGroup": "RG-sarabattistella",

    "resourceType": null

  },

  {

    "apiVersion": null,

    "extension": null,

    "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Storage/storageAccounts/dsbdevc3un7w4q",

    "identifiers": null,

    "resourceGroup": "RG-sarabattistella",

    "resourceType": null

  },

  {

    "apiVersion": null,

    "extension": null,

    "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Web/serverfarms/devapp-app-dev-c3un7w4qzrlpm",

    "identifiers": null,

    "resourceGroup": "RG-sarabattistella",

    "resourceType": null

  },

  {

    "apiVersion": null,

    "extension": null,

    "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Web/sites/devapp-web-dev-c3un7w4qzrlpm",

    "identifiers": null,
```

```
      "resourceGroup": "RG-sarabattistella",

      "resourceType": null

    },

  ],

  "outputs": {

    "appServicePlanId": {

      "type": "String",

      "value": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Web/serverfarms/devapp-app-dev-c3un7w4qzrlpm"

    },

    "keyVaultSecretUri": {

      "type": "String",

      "value": "https://devapp-kv-dev.vault.azure.net/secrets/MySecret-c3un7w4qzrlpm/c7b4a9ba36e24e4cadf2d10018661229"

    },

    "storageAccountId": {

      "type": "String",

      "value": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Storage/storageAccounts/dsbdevc3un7w4q"

    },

    "webAppUrl": {

      "type": "String",

      "value": "https://devapp-web-dev-c3un7w4qzrlpm.azurewebsites.net"

    }

  },

  "parameters": {

    "appServicePlanSku": {
```

```
    "type": "String",

    "value": "B1"

  },

  "costCenter": {

    "type": "String",

    "value": "DEV-001"

  },

  "defaultInstanceCount": {

    "type": "Int",

    "value": 1

  },

  "environment": {

    "type": "String",

    "value": "dev"

  },

  "httpsOnly": {

    "type": "Bool",

    "value": true

  },

  "location": {

    "type": "String",

    "value": "swedencentral"

  },

  "maxInstanceCount": {

    "type": "Int",

    "value": 2
```

```
    },  
  
    "minInstanceCount": {  
  
        "type": "Int",  
  
        "value": 1  
  
    },  
  
    "namePrefix": {  
  
        "type": "String",  
  
        "value": "devapp"  
  
    },  
  
    "owner": {  
  
        "type": "String",  
  
        "value": "Sara Battistella"  
  
    },  
  
    "secretName": {  
  
        "type": "String",  
  
        "value": "MySecret"  
  
    },  
  
    "secretValueFromCLI": {  
  
        "type": "SecureString"  
  
    },  
  
    "skuCapacity": {  
  
        "type": "Int",  
  
        "value": 1  
  
    },  
  
    "skuName": {  
  
        "type": "String",
```



```
"value": "Standard_LRS"

    },

    "storageKind": {

        "type": "String",

        "value": "StorageV2"

    },

    "storagePrefix": {

        "type": "String",

        "value": "dsb"

    }

    },

    "parametersLink": null,

    "providers": [

        {

            "id": null,

            "namespace": "Microsoft.Resources",

            "providerAuthorizationConsentState": null,

            "registrationPolicy": null,

            "registrationState": null,

            "resourceTypes": [

                {

                    "aliases": null,

                    "apiProfiles": null,

                    "apiVersions": null,

                    "capabilities": null,

                    "defaultApiVersion": null,
```

```
"locationMappings": null,

    "locations": [

        "swedencentral"

    ],

    "properties": null,
"resourceType": "deploymentScripts",

    "zoneMappings": null

    },

    {

        "aliases": null,

        "apiProfiles": null,

        "apiVersions": null,

        "capabilities": null,

        "defaultApiVersion": null,

        "locationMappings": null,

        "locations": [

            null

        ],

        "properties": null,

        "resourceType": "deployments",

        "zoneMappings": null

    }

    ],

    "provisioningState": "Succeeded",
```

```

    "templateHash": "6978141796123332361",

    "templateLink": null,

    "timestamp": "2025-09-06T12:02:33.267357+00:00",

    "validatedResources": null,

    "validationLevel": null

  },

  "resourceGroup": "RG-sarabattistella",

  "tags": null,

  "type": "Microsoft.Resources/deployments"

}

```

TEST:

sarab@SahZenbook MINGW64 ~/Desktop/Projects/Lab2-AdminCloud\_BicepInfrastructure (main)

```

$ az deployment group create \

--resource-group RG-sarabattistella \

--template-file src/main.bicep \

--parameters @parameters/test.json \

--parameters secretValueFromCLI="cats3"

{

```

```

  "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
sarabattistella/providers/Microsoft.Resources/deployments/main",

  "location": null,

  "name": "main",

  "properties": {

    "correlationId": "dbc88b48-f991-4be6-81cd-8ad579dc2d21",

    "debugSetting": null,

    "dependencies": [

```

```
{  
  "dependsOn": [  
    {  
      "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/app-test",  
      "resourceGroup": "RG-sarabattistella",  
      "resourceName": "app-test",  
      "resourceType": "Microsoft.Resources/deployments"  
    },  
    {  
      "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/kv-test",  
      "resourceGroup": "RG-sarabattistella",  
      "resourceName": "kv-test",  
      "resourceType": "Microsoft.Resources/deployments"  
    }  
  ],  
  "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deploymentScripts/assignKvRoleScript",  
  "resourceGroup": "RG-sarabattistella",  
  "resourceName": "assignKvRoleScript",  
  "resourceType": "Microsoft.Resources/deploymentScripts"  
},  
{  
  "dependsOn": [  
    {
```

```
"id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/kv-test",

    "resourceGroup": "RG-sarabattistella",

    "resourceName": "kv-test",

    "resourceType": "Microsoft.Resources/deployments"

  },

  {

    "apiVersion": "2022-09-01",

    "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/kv-test",

    "resourceGroup": "RG-sarabattistella",

    "resourceName": "kv-test",

    "resourceType": "Microsoft.Resources/deployments"

  }

],

    "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/app-test",

    "resourceGroup": "RG-sarabattistella",

    "resourceName": "app-test",

    "resourceType": "Microsoft.Resources/deployments"

  }

],

    "diagnostics": null,

    "duration": "PT1M7.6358937S",

    "error": null,

    "extensions": null,

    "mode": "Incremental",
```

```
    "onErrorDeployment": null,

    "outputResources": [

        {

            "apiVersion": null,

            "extension": null,

            "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.KeyVault/vaults/testapp-kv-test",

            "identifiers": null,

            "resourceGroup": "RG-sarabattistella",

            "resourceType": null

        },

        {

            "apiVersion": null,

            "extension": null,

            "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.KeyVault/vaults/testapp-kv-test/secrets/MySecret-c3un7w4qzrlpm",

            "identifiers": null,

            "resourceGroup": "RG-sarabattistella",

            "resourceType": null

        },

        {

            "apiVersion": null,

            "extension": null,

            "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deploymentScripts/assignKvRoleScript",

            "identifiers": null,

            "resourceGroup": "RG-sarabattistella",
```

```
    "resourceType": null

  },

  {

    "apiVersion": null,

    "extension": null,

    "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Storage/storageAccounts/tsbtestc3un7w4q",

    "identifiers": null,

    "resourceGroup": "RG-sarabattistella",

    "resourceType": null

  },

  {

    "apiVersion": null,

    "extension": null,

    "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Web/serverfarms/testapp-app-test-c3un7w4qzrlpm",

    "identifiers": null,

    "resourceGroup": "RG-sarabattistella",

    "resourceType": null

  },

  {

    "apiVersion": null,

    "extension": null,

    "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Web/sites/testapp-web-test-c3un7w4qzrlpm",

    "identifiers": null,

    "resourceGroup": "RG-sarabattistella",
```

```
      "resourceType": null
    }
  ],
  "outputs": {
    "appServicePlanId": {
      "type": "String",
      "value": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Web/serverfarms/testapp-app-test-c3un7w4qzrlpm"
    },
    "keyVaultSecretUri": {
      "type": "String",
      "value": "https://testapp-kv-test.vault.azure.net/secrets/MySecret-c3un7w4qzrlpm/b1848a807b1742189d0501714c22b729"
    },
    "storageAccountId": {
      "type": "String",
      "value": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Storage/storageAccounts/tsbtestc3un7w4q"
    },
    "webAppUrl": {
      "type": "String",
      "value": "https://testapp-web-test-c3un7w4qzrlpm.azurewebsites.net"
    }
  },
  "parameters": {
    "appServicePlanSku": {
      "type": "String",
```



```
      "value": "B1"

    },

    "costCenter": {

      "type": "String",

      "value": "DEV-002"

    },

    "defaultInstanceCount": {

      "type": "Int",

      "value": 1

    },

    "environment": {

      "type": "String",

      "value": "test"

    },

    "httpsOnly": {

      "type": "Bool",

      "value": true

    },

    "location": {

      "type": "String",

      "value": "swedencentral"

    },

    "maxInstanceCount": {

      "type": "Int",

      "value": 2

    },
```

```
"minInstanceCount": {  
  
  "type": "Int",  
  
  "value": 1  
  
  },  
  
  "namePrefix": {  
  
    "type": "String",  
  
    "value": "testapp"  
  
    },  
  
    "owner": {  
  
      "type": "String",  
  
      "value": "Sara Battistella"  
  
      },  
  
      "secretName": {  
  
        "type": "String",  
  
        "value": "MySecret"  
  
        },  
  
        "secretValueFromCLI": {  
  
          "type": "SecureString"  
  
          },  
  
          "skuCapacity": {  
  
            "type": "Int",  
  
            "value": 1  
  
            },  
  
            "skuName": {  
  
              "type": "String",  
  
              "value": "Standard_LRS"
```

```
    },  
  
    "storageKind": {  
  
      "type": "String",  
  
      "value": "StorageV2"  
  
    },  
  
    "storagePrefix": {  
  
      "type": "String",  
  
      "value": "tsb"  
  
    }  
  
  },  
  
  "parametersLink": null,  
  
  "providers": [  
  
    {  
  
      "id": null,  
  
      "namespace": "Microsoft.Resources",  
  
      "providerAuthorizationConsentState": null,  
  
      "registrationPolicy": null,  
  
      "registrationState": null,  
  
      "resourceTypes": [  
  
        {  
  
          "aliases": null,  
  
          "apiProfiles": null,  
  
          "apiVersions": null,  
  
          "capabilities": null,  
  
          "defaultApiVersion": null,  
  
          "locationMappings": null,
```

```
        "locations": [  
            "swedencentral"  
        ],  
        "properties": null,  
        "resourceType": "deploymentScripts",  
        "zoneMappings": null  
    },  
    {  
        "aliases": null,  
        "apiProfiles": null,  
        "apiVersions": null,  
        "capabilities": null,  
        "defaultApiVersion": null,  
        "locationMappings": null,  
        "locations": [  
            null  
        ],  
        "properties": null,  
        "resourceType": "deployments",  
        "zoneMappings": null  
    }  
]  
}  
],  
"provisioningState": "Succeeded",  
"templateHash": "6978141796123332361",
```

```

        "templateLink": null,

        "timestamp": "2025-09-06T12:06:09.143578+00:00",

        "validatedResources": null,

        "validationLevel": null

    },

    "resourceGroup": "RG-sarabattistella",

    "tags": null,

    "type": "Microsoft.Resources/deployments"

}

```

PROD:

sarab@SahZenbook MINGW64 ~/Desktop/Projects/Lab2-AdminCloud\_BicepInfrastructure (main)

```

$ az deployment group create \

--resource-group RG-sarabattistella \

--template-file src/main.bicep \

--parameters @parameters/prod.json \

--parameters secretValueFromCLI="cats3"

```

```

{

  "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
sarabattistella/providers/Microsoft.Resources/deployments/main",

  "location": null,

  "name": "main",

  "properties": {

    "correlationId": "2de642d9-23be-43be-811f-8d18bf6eb278",

    "debugSetting": null,

    "dependencies": [

      {

```

```
      "dependsOn": [  
  
        {  
  
          "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/app-prod",  
  
          "resourceGroup": "RG-sarabattistella",  
  
          "resourceName": "app-prod",  
  
          "resourceType": "Microsoft.Resources/deployments"  
  
        },  
  
        {  
  
          "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/kv-prod",  
  
          "resourceGroup": "RG-sarabattistella",  
  
          "resourceName": "kv-prod",  
  
          "resourceType": "Microsoft.Resources/deployments"  
  
        }  
  
      ],  
  
      "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deploymentScripts/assignKvRoleScript",  
  
      "resourceGroup": "RG-sarabattistella",  
  
      "resourceName": "assignKvRoleScript",  
  
      "resourceType": "Microsoft.Resources/deploymentScripts"  
  
    },  
  
    {  
  
      "dependsOn": [  
  
        {  
  
          "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-sarabattistella/providers/Microsoft.Resources/deployments/kv-prod",
```

```
        "resourceGroup": "RG-sarabattistella",

        "resourceName": "kv-prod",

        "resourceType": "Microsoft.Resources/deployments"

    },

    {

        "apiVersion": "2022-09-01",

        "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
        sarabattistella/providers/Microsoft.Resources/deployments/kv-prod",

        "resourceGroup": "RG-sarabattistella",

        "resourceName": "kv-prod",

        "resourceType": "Microsoft.Resources/deployments"

    }

],

    "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
    sarabattistella/providers/Microsoft.Resources/deployments/app-prod",

    "resourceGroup": "RG-sarabattistella",

    "resourceName": "app-prod",

    "resourceType": "Microsoft.Resources/deployments"

},

{

    "dependsOn": [

        {

            "id": "/subscriptions/c4b7ee56-bbc7-4664-bf23-a55d20a9086f/resourceGroups/RG-
            sarabattistella/providers/Microsoft.Resources/deployments/app-prod",

            "resourceGroup": "RG-sarabattistella",

            "resourceName": "app-prod",

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  "value": "MySecret"  
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