

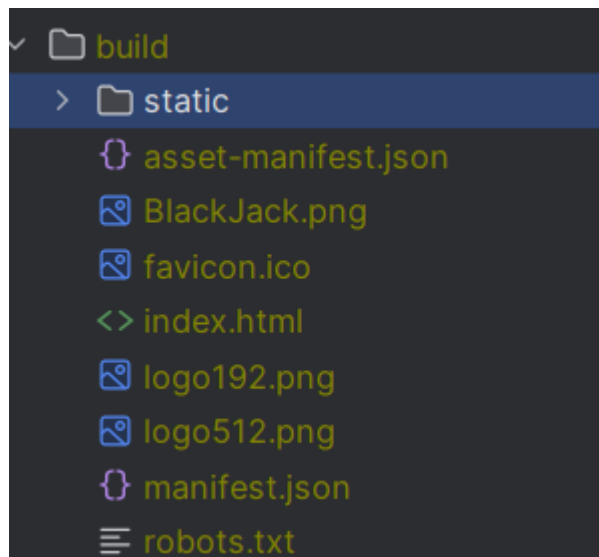
Blackjack React Spiel in Azure mit Azure CLI online stellen

Produktiven Project Stand kompilieren

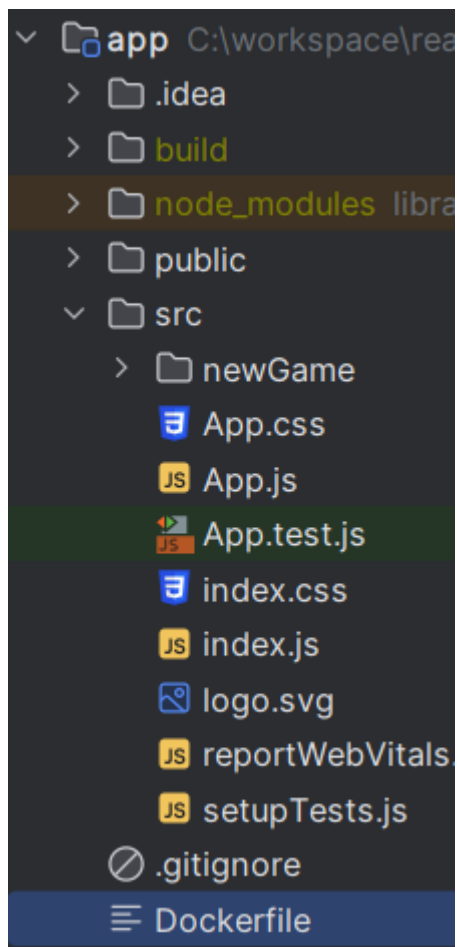
```
PS C:\workspace\react_card_game\app> npm run build

> app@0.1.0 build
> react-scripts build

Creating an optimized production build...
```



Dockerfile erstellen



```
None
FROM node:18 AS build

WORKDIR /app

COPY package.json package-lock.json ./
RUN npm install

COPY . .
RUN npm run build

FROM nginx:alpine

COPY --from=build /app/build /usr/share/nginx/html

EXPOSE 80

CMD ["nginx", "-g", "daemon off;"]
```

```

PS C:\workspace\react_card_game\app> docker build .
[+] Building 259.8s (14/14) FINISHED                                docker:desktop-linux
=> [internal] load build definition from Dockerfile                0.1s
=> => transferring dockerfile: 390B                                0.0s
=> [internal] load metadata for docker.io/library/node:18          1.6s
=> [internal] load metadata for docker.io/library/nginx:alpine     2.2s
=> [internal] load .dockerignore                                    0.0s
=> => transferring context: 2B                                       0.0s
=> [build 1/6] FROM docker.io/library/node:18@sha256:c6ae79e38498325db67193d 62.1s
=> => resolve docker.io/library/node:18@sha256:c6ae79e38498325db67193d391e6ec 0.1s
=> => sha256:3e6b9d1a95114e19f12262a4e8a59ad1d1a10ca7b82108 48.49MB / 48.49MB 7.9s
=> => sha256:79b2f47ad4443652b9b5cc81a95ede249fd976310efdb 64.40MB / 64.40MB 10.9s
=> => sha256:b50082bc3670d0396b2d90e4b0e5bb10265ba5d0ee16bf40 6.39kB / 6.39kB 0.0s
=> => sha256:eb29363371ee2859fad6a3c5af88d4abc6ff7d399addb13b 2.49kB / 2.49kB 0.0s
=> => sha256:c6ae79e38498325db67193d391e6ec1d224d96c693a8a4d9 6.41kB / 6.41kB 0.0s
=> => sha256:37927ed901b1b2608b72796c6881bf645480268eca4ac9 24.02MB / 24.02MB 5.0s
=> => sha256:e23f099911d692f62b851cf49a1e93294288a115f5c 211.36MB / 211.36MB 36.5s
=> => sha256:cda7f44f2bddcc4bb7514474024b3f3705de00ddb6355a33 3.32kB / 3.32kB 8.1s
=> => extracting sha256:3e6b9d1a95114e19f12262a4e8a59ad1d1a10ca7b82108adcf060 8.5s
=> => sha256:c6b30c3f16966552af10ac00521f60355b1fcfd46ac1c 45.68MB / 45.68MB 20.2s
=> => sha256:3697be50c98b9d071df4637e1d3491d00e7b9f3a732768c 1.25MB / 1.25MB 11.6s
=> => sha256:461077a72fb7fe40d34a37d6a1958c4d16772d0dd77f572ec50 446B / 446B 11.8s
=> => extracting sha256:37927ed901b1b2608b72796c6881bf645480268eca4ac9a37b921 3.4s

```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
<none>	<none>	b8748dc0a15f	13 seconds ago	49.8MB

```

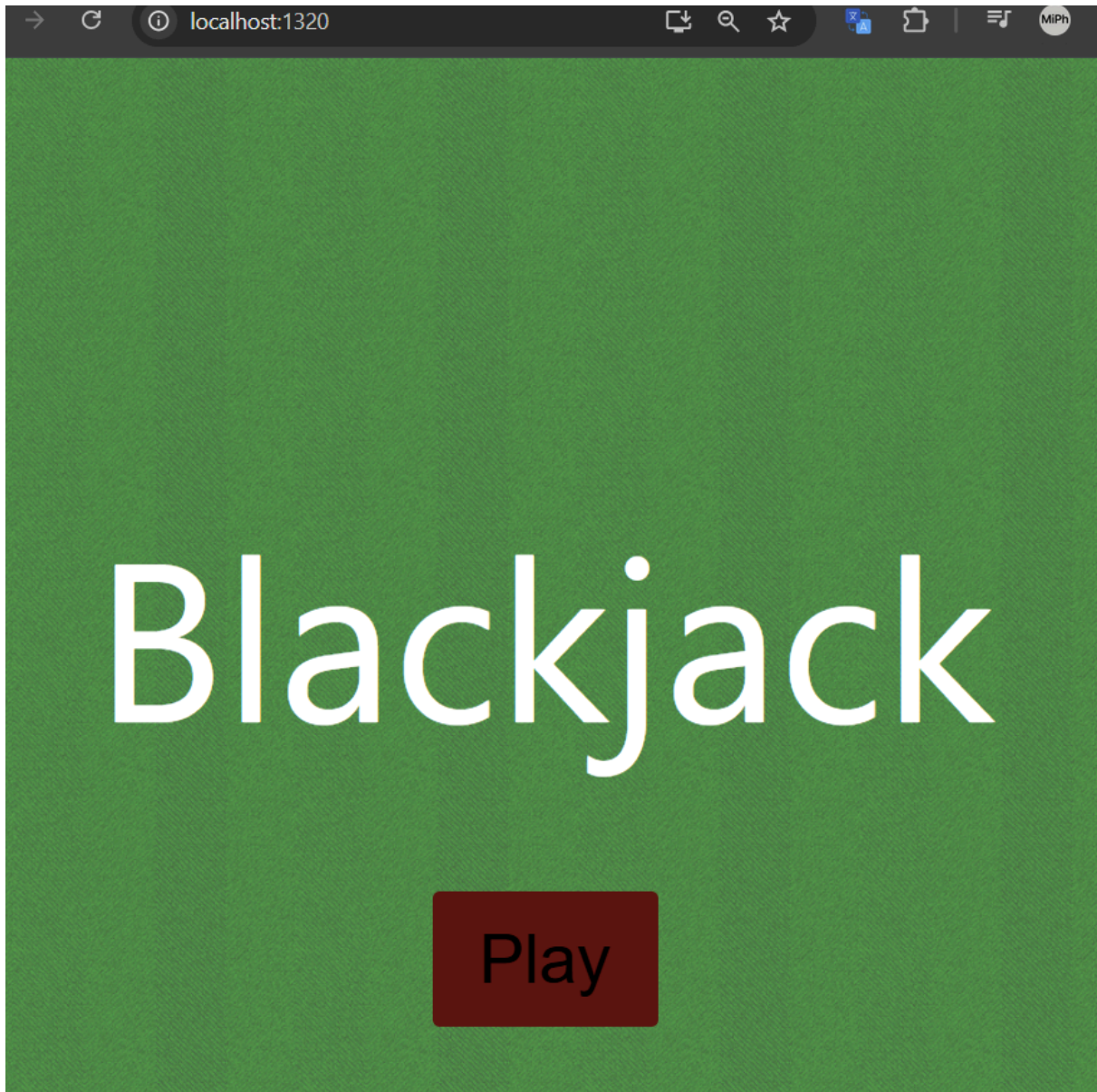
PS C:\workspace\react_card_game\app> docker tag b874 react-card-game:1.0

```

```

PS C:\workspace\react_card_game\app> docker run -p 1320:80 b8
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/06/16 09:50:56 [notice] 1#1: using the "epoll" event method
2025/06/16 09:50:56 [notice] 1#1: nginx/1.27.5
2025/06/16 09:50:56 [notice] 1#1: built by gcc 14.2.0 (Alpine 14.2.0)

```



Azure CLI Einloggen

```
C:\Users\minh.pham>az login
Select the account you want to log in with. For more information on login with Azure CLI, see https://go.microsoft.com/fwlink/?linkid=2271136

Retrieving tenants and subscriptions for the selection...

[Tenant and subscription selection]

No      Subscription name  Subscription ID                               Tenant
-----
[1] *   Azure for Students  0fe49257-de2e-49c0-867f-ab4bcee58104  bbw.ch

The default is marked with an *; the default tenant is 'bbw.ch' and subscription is 'Azure for Students' (0fe49257-de2e-49c0-867f-ab4bcee58104).

Select a subscription and tenant (Type a number or Enter for no changes): 1

Tenant: bbw.ch
Subscription: Azure for Students (0fe49257-de2e-49c0-867f-ab4bcee58104)
```

Ressource Group erstellen

```
C:\Users\minh.pham>az group create --name reactCardGameGroup --location eastus
{
  "id": "/subscriptions/0fe49257-de2e-49c0-867f-ab4bcee58104/resourceGroups/reactCardGameGroup",
  "location": "eastus",
  "managedBy": null,
  "name": "reactCardGameGroup",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
```

ACR Registry erstellen

```
C:\Users\minh.pham>az acr create --name reactcardgameregistry --resource-group reactCardGameGroup --sku Basic
| \ Running ..
```

Auslage:

Container registries



bbw.ch (bbwch.onmicrosoft.com)

[+](#) Create [⚙️](#) Manage view [↺](#) Refresh [↓](#) Export to CSV [🔗](#) Open query

[🔔](#) You are viewing a new version of Browse experience. Some features may be missing. [Click](#)

[🔍](#) Filter for any field...

Subscription equals **all** Resource Group equals **all** [×](#) Location equals **all**

<input type="checkbox"/>	Name ↑	Type	Resource Group
<input type="checkbox"/>	 m347miph	...	Container regis... m347_registries
<input type="checkbox"/>	 reactcardgameregistry	...	Container regis... reactCardGame...

ACR einloggen

```
C:\Users\minh.pham>az acr login --name reactcardgameregistry.azurecr.io
The output will be changed in next breaking change release(2.73.0) scheduled for May
d fails for docker login.
The login server endpoint suffix '.azurecr.io' is automatically omitted.
Login Succeeded

C:\Users\minh.pham>
```

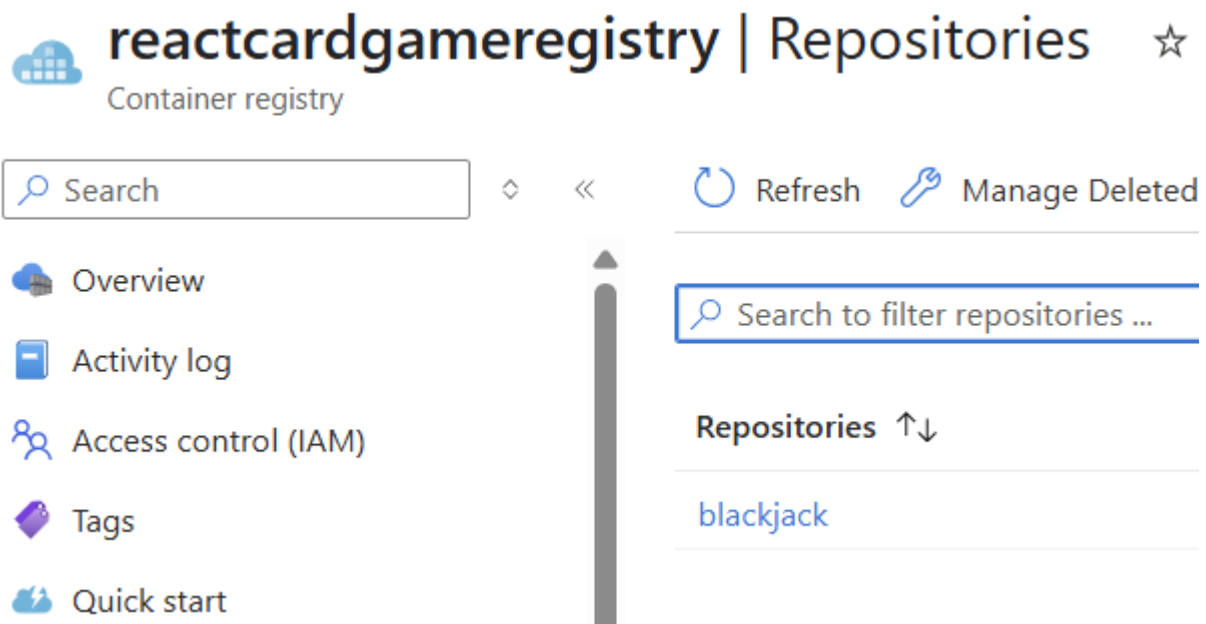
Docker Image mit Azure Url umbenennen

```
C:\Users\minh.pham>docker images
REPOSITORY          TAG          IMAGE ID          CREATED           SIZE
react-card-game     1.0         b8748dc0a15f     About an hour ago 49.8MB

C:\Users\minh.pham>docker tag b874 reactcardgameregistry.azurecr.io/blackjack:1.0
```

Image ins ACR pushen (online stellen)

```
C:\Users\minh.pham>docker push reactcardgameregistry.azurecr.io/blackjack:1.0
The push refers to repository [reactcardgameregistry.azurecr.io/blackjack]
1aa6dbfd9b35: Pushed
0d853d50b128: Pushed
947e805a4ac7: Pushed
811a4dbbf4a5: Pushed
b8d7d1d22634: Pushed
e244aa659f61: Pushed
c56f134d3805: Pushed
d71eae0084c1: Pushed
08000c18d16d: Pushed
1.0: digest: sha256:4f0673ea63a1798faf31f9db36bbcd270830866e7523dc437685198ecec1158 size: 2199
```



Docker Image pull

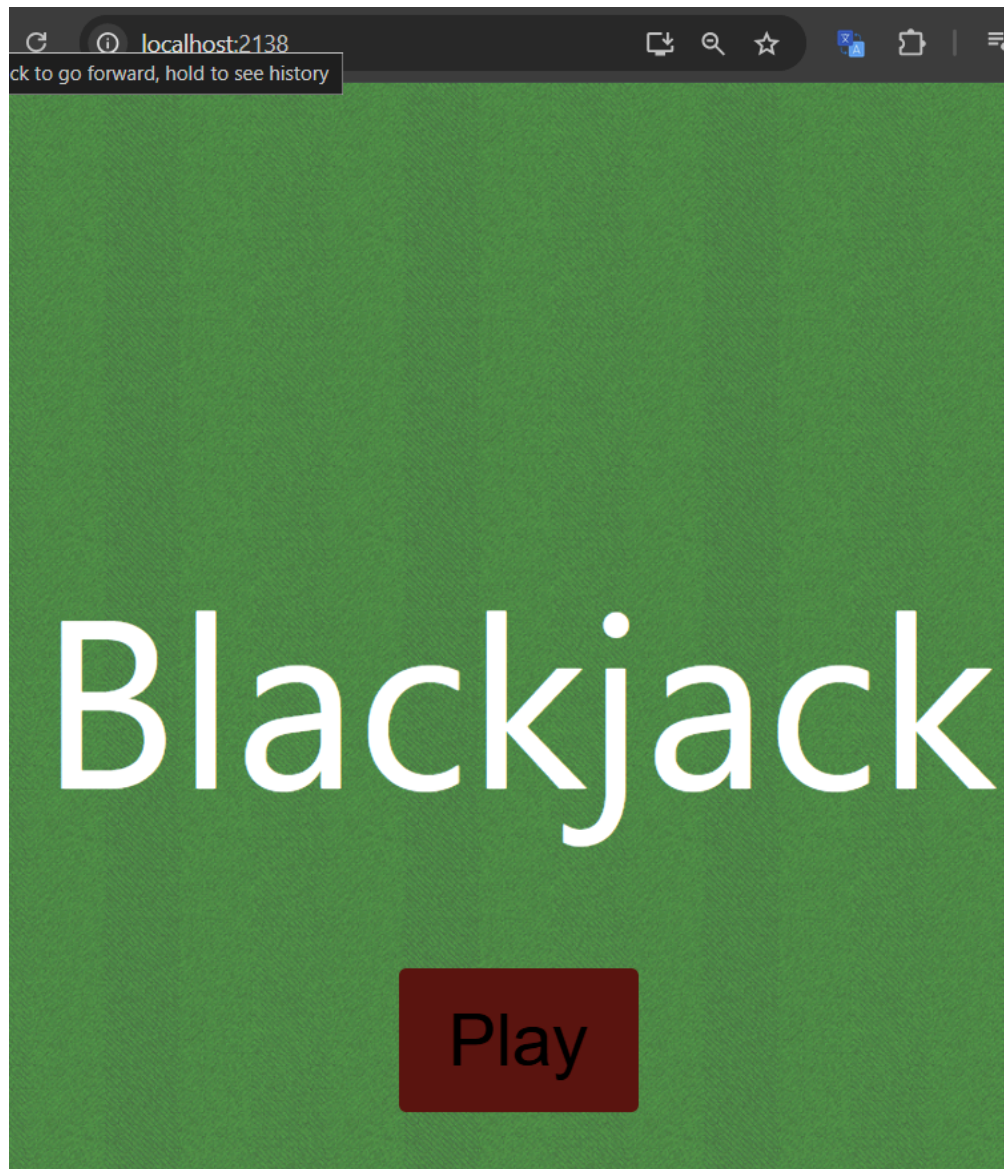
```
C:\Users\minh.pham>docker pull reactcardgameregistry.azurecr.io/blackjack:1.0
1.0: Pulling from blackjack
Digest: sha256:4f0673ea63a1798faf31f9db36bbcd270830866e7523dc437685198ecec1158
Status: Image is up to date for reactcardgameregistry.azurecr.io/blackjack:1.0
reactcardgameregistry.azurecr.io/blackjack:1.0

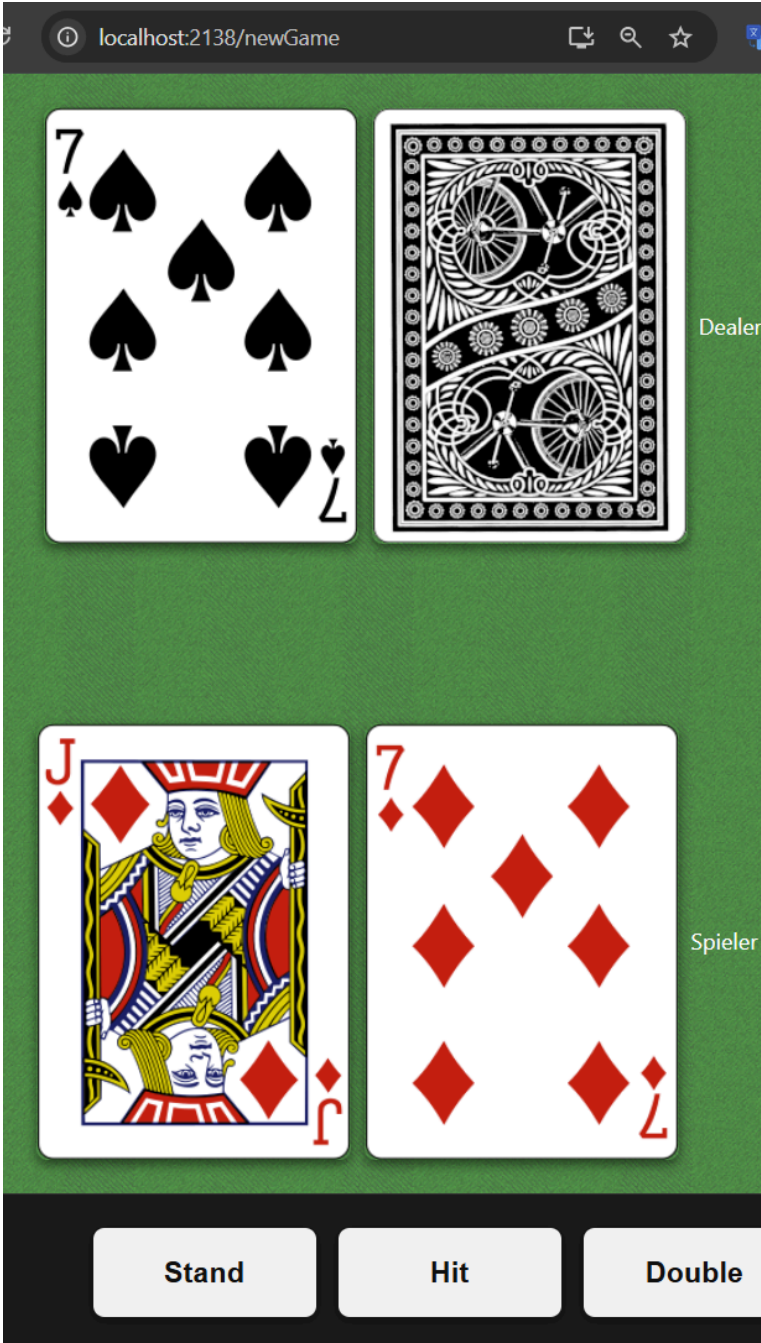
What's next:
  View a summary of image vulnerabilities and recommendations → docker scout quickview reactcardgameregistry.azurecr.io/blackjack:1.0
C:\Users\minh.pham>
```


Endergebnis:

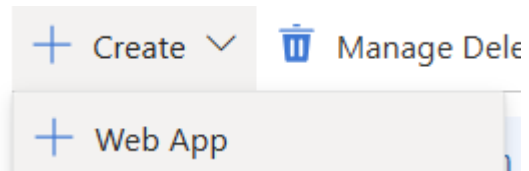
```
C:\Users\minh.pham>docker run -p 2138:80 reactcardgameregistry.azurecr.io/blackjack:1.0
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/06/16 11:35:07 [notice] 1#1: using the "epoll" event method
2025/06/16 11:35:07 [notice] 1#1: nginx/1.27.5
2025/06/16 11:35:07 [notice] 1#1: built by gcc 14.2.0 (Alpine 14.2.0)
2025/06/16 11:35:07 [notice] 1#1: OS: Linux 6.6.87.1-microsoft-standard-WSL2
2025/06/16 11:35:07 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/06/16 11:35:07 [notice] 1#1: ...
```

wichtig ist: Port noch für interne Computer erstellen





Service erstellen



Basics

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Azure for Students

Resource Group * ⓘ

reactCardGameGroup

[Create new](#)

Instance Details

Name

reactCardeGame

-gjhpe4gvhzatd9da.canadacentral-01.azurewebsites.net

Publish *

☐ Code ☒ Container

Operating System *

☒ Linux ☐ Windows

Region *

East US

i Not finding your App Service Plan? Try a different region or select your App Service Environment.

Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.

[Learn more](#)

Linux Plan (East US) * ⓘ

ASP-reactCardGameGroup-bc90 (B1)

[Create new](#)

Pricing plan

Basic B1 (100 total ACU, 1.75 GB memory, 1 vCPU)

Container

Sidecar support

☐ Enhanced configuration with sidecar support off [Learn More](#)

Image Source *

☐ Quickstart
☒ Azure Container Registry
☐ Other container registries

Azure container registry options

Registry *

reactcardgameregistry

Authentication *

☒ Managed identity
☐ Admin credentials

Identity *

(New) ua-id-b575

Image *

blackjack

✓

Tag *

1.0

✓

✓ Your deployment is complete



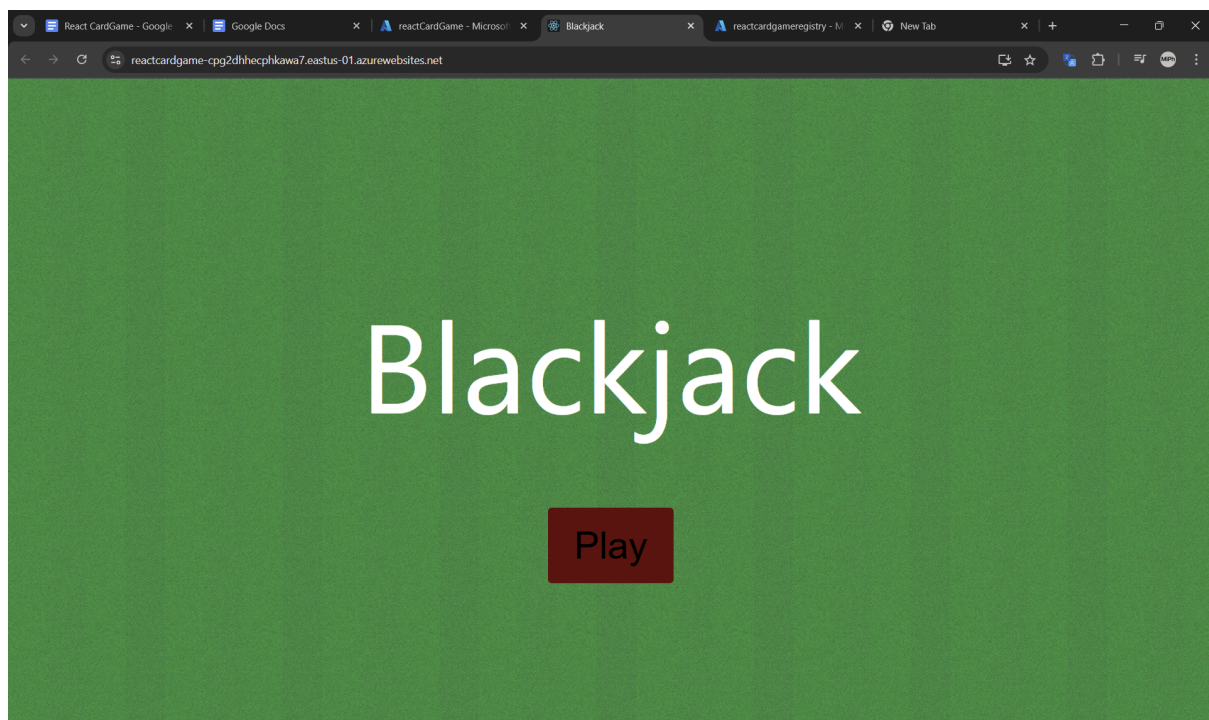
Deployment name : Microsoft.Web-WebApp-Portal-6347f0d5-8620
Subscription : [Azure for Students](#)
Resource group : [reactCardGameGroup](#)

Start time : 6/23/2025, 11:21:11 AM
Correlation ID : 6b3c9de8-7552-4a5e-8d91-12df84e30b38

✓ Deployment details

Resource	Type	Status	Operation details
✓ reactCardGame/ftp	Microsoft.Web/sites/basicPublis	OK	Operation details
✓ reactCardGame/scm	Microsoft.Web/sites/basicPublis	OK	Operation details
✓ reactCardGame	Microsoft.Web/sites	OK	Operation details
✓ AcrPullRoleAssignmentTemplate	Deployment	OK	Operation details
✓ ua-id-9b22	Managed Identity	OK	Operation details
✓ ua-id-9b22	Managed Identity	Created	Operation details
✓ ASP-reactCardGameGroup-bc90	Microsoft.Web/serverfarms	OK	Operation details

URL: <https://reactcardgame-cpg2dhhecphkawa7.eastus-01.azurewebsites.net/>



Es hat funktioniert.



Aber wenn ich jetzt hier Seite aktualisiere -> dann bekomme ich Nginx Error

Version 2.0

```
PS C:\workspace\react_card_game\app> git pull origin main
```

```
PS C:\workspace\react_card_game\app> docker build -t reactcardgameregistry.azurecr.io/blackjack:2.0 .
```

```
C:\Users\minh.pham>az acr login --name reactcardgameregistry.azurecr.io
The output will be changed in next breaking change release(2.73.0) scheduled for 6/30/2025. If the command fails for docker login.
The login server endpoint suffix '.azurecr.io' is automatically omitted.
Login Succeeded
```

```
C:\Users\minh.pham>docker push reactcardgameregistry.azurecr.io/blackjack:2.0
The push refers to repository [reactcardgameregistry.azurecr.io/blackjack]
55a21bb19ae4: Pushed
```

Home >

blackjack

Repository

Refresh

Start artifact streaming

Manage deleted artifacts

Delete repository

Essentials

Repository

:

blackjack

Tag count

:

2

Last updated date

:

6/30/2025, 8:36 AM GMT+2

Manifest count

:

2

Search to filter tags ...

Tags

↑↓

Digest

↑↓

Last modified

2.0

sha256:93ec8da78db6e7e8bdb54ed484d6e182024bc5f2d207ad40bb177bd01507...

6/30/2025, 8:36 AM GMT+2

1.0

sha256:4f0673ea63a1798faf31f9db36bbcd270830866e7523dc437685198ecef1158

6/16/2025, 1:19 PM GMT+2

all your resources.

Subscription * ⓘ

Azure for Students

Resource Group * ⓘ

reactCardGameGroup

[Create new](#)

Instance Details

Name

blackjack2

-fgf9exgkgvfgesbw.eastus-01.azurewebsites.net

☒ Secure unique default hostname on. [More about this update](#)

Publish *

☐ Code ☒ Container

Operating System *

☒ Linux ☐ Windows

Region *

East US

i Not finding your App Service Plan? Try a different region or select your App Service Environment.

Select your preferred source for container images. You can change these settings and other dependencies after creating the app. [Learn more](#)

Sidecar support

☐ Enhanced configuration with sidecar support off [Learn More](#)

Image Source *

☐ Quickstart
☒ Azure Container Registry
☐ Other container registries

Azure container registry options

Registry *

reactcardgameregistry

Authentication *

☒ Managed identity
☐ Admin credentials

Identity *

(New) ua-id-9672

i When using managed identity, image and tag fields will not auto populate. Please manually enter the image and tag below.

Image *

blackjack

Tag *

2.0

Startup Command ⓘ

Example: /bin/bash; -c; echo hello; sleep 10000

Delete Cancel Redeploy Download Refresh

✓ Your deployment is complete



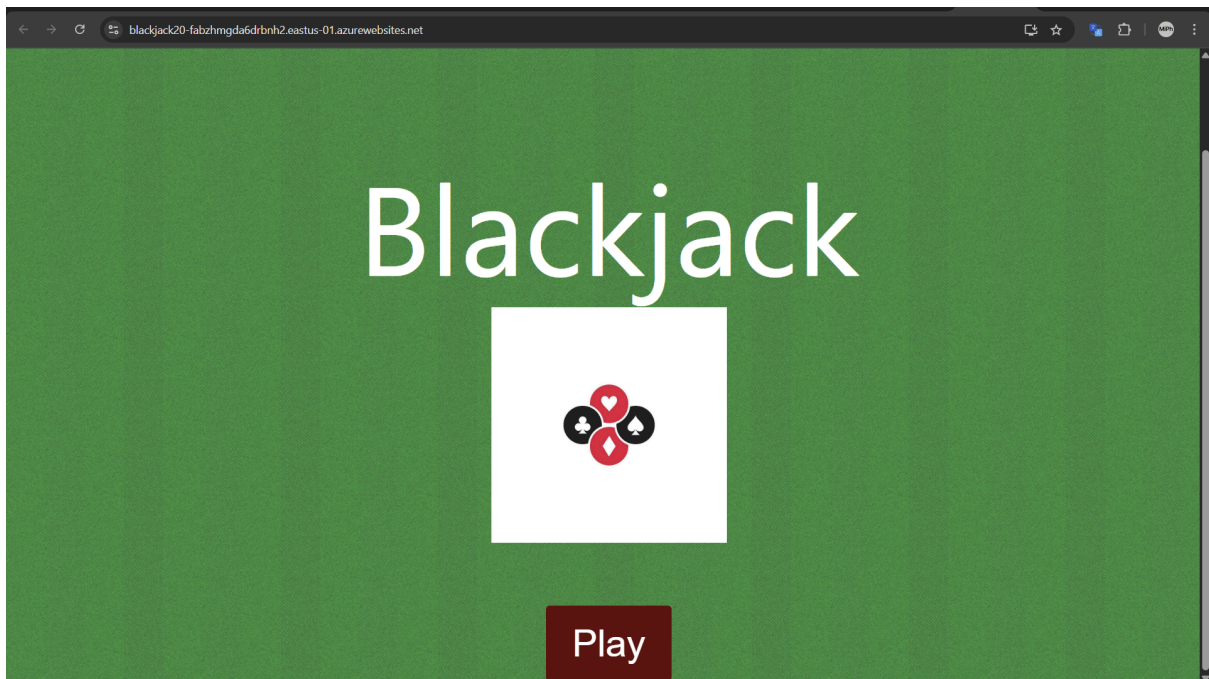
Deployment name : Microsoft.Web-WebApp-Portal-18b1102e-a6e9
Subscription : [Azure for Students](#)
Resource group : [reactCardGameGroup](#)

Start time : 6/30/2025, 8:40:31 AM
Correlation ID : 46966206-de5a-4b74-af1e-35c8633e8f05

Deployment details

Resource	Type	Status	Operation details
✓ blackjack2/ftp	Microsoft.Web/sites/basicPublishing	OK	Operation details
✓ blackjack2/scm	Microsoft.Web/sites/basicPublishing	OK	Operation details
✓ blackjack2	Microsoft.Web/sites	OK	Operation details
✓ AcrPullRoleAssignmentTemplate	Deployment	OK	Operation details
✓ ua-id-940c	Managed Identity	OK	Operation details
✓ ua-id-940c	Managed Identity	Created	Operation details

Next steps



URL: <https://blackjack20-fabzhmgda6drbnh2.eastus-01.azurewebsites.net/>

Version 3.0

```
PS C:\workspace\react_card_game\app> docker build -t reactcardgameregistry.azurecr.io/blackjack:3.0 .  
[+] Building 23.5s (12/13)
```

```
PS C:\Users\minh.pham> docker push reactcardgameregistry.azurecr.io/blackjack:3.0
The push refers to repository [reactcardgameregistry.azurecr.io/blackjack]
```

reactcardgameregistry | Repositories

Container registry

Search

Refresh

Overview

Activity log

Access control (IAM)

Tags

Quick start

Resource visualizer

Events

Settings

Services

Repositories

Search to filter repositories ...

Repositories

blackjack

blackjack

Repository

Refresh

Start artifact streaming

Manage deleted artifacts

Delete repository

Essentials

Repository

blackjack

Tag count

3

Last updated date

6/30/2025, 11:32 AM GMT+2

Manifest count

3

Search to filter tags ...


Tags	Digest	Last modified
3.0	sha256:4b379c39b42cb4b9652098ea2d65383c6...	6/30/2025, 11:32 AM GMT+2
2.0	sha256:93ec8da78db6e7e8bdb54ed484d6e182...	6/30/2025, 8:36 AM GMT+2
1.0	sha256:4f0673ea63a1798fa31f9db36bbcd2708...	6/16/2025, 1:19 PM GMT+2

Create Web App

- Basics
- Database
- Container
- Networking
- Monitor + secure
- Tags
- Review + create

Summary

 **Web App**
by Microsoft

 Basic authentication for this app is currently disabled and may impact deployments. Click to learn more.

Details

Subscription	0fe49257-de2e-49c0-867f-ab4bcee58104
Resource Group	reactCardGameGroup
Name	Blackjack30
Secure unique default hostname	Enabled
Publish	Container
Image:Tag	reactcardgameregistry.azurecr.io/blackjack:3.0
Server URL	https://reactcardgameregistry.azurecr.io

App Service Plan

Name	ASP-reactCardGameGroup-bc90
Operating System	Linux
Region	East US
SKU	Basic

✓ Your deployment is complete



Deployment name : Microsoft.Web-WebApp-Portal-d4961fc7-9761
Subscription : [Azure for Students](#)
Resource group : [reactCardGameGroup](#)

Start time : 6/30/2025, 11:34:02 AM
Correlation ID : d90dc287-017c-4309-99b3-05ac41e5dfd6

Deployment details

Resource	Type	Status	Operation details
✓ Blackjack30/scm	Microsoft.Web/sites/basicPublis	OK	Operation details
✓ Blackjack30/ftp	Microsoft.Web/sites/basicPublis	OK	Operation details
✓ Blackjack30	Microsoft.Web/sites	OK	Operation details
✓ AcrPullRoleAssignmentTemplate	Deployment	OK	Operation details
✓ ua-id-a3e0	Managed Identity	OK	Operation details
✓ ua-id-a3e0	Managed Identity	Created	Operation details

Next steps

URL: <https://blackjack30-gehqfxbjf4bweabw.eastus-01.azurewebsites.net/>