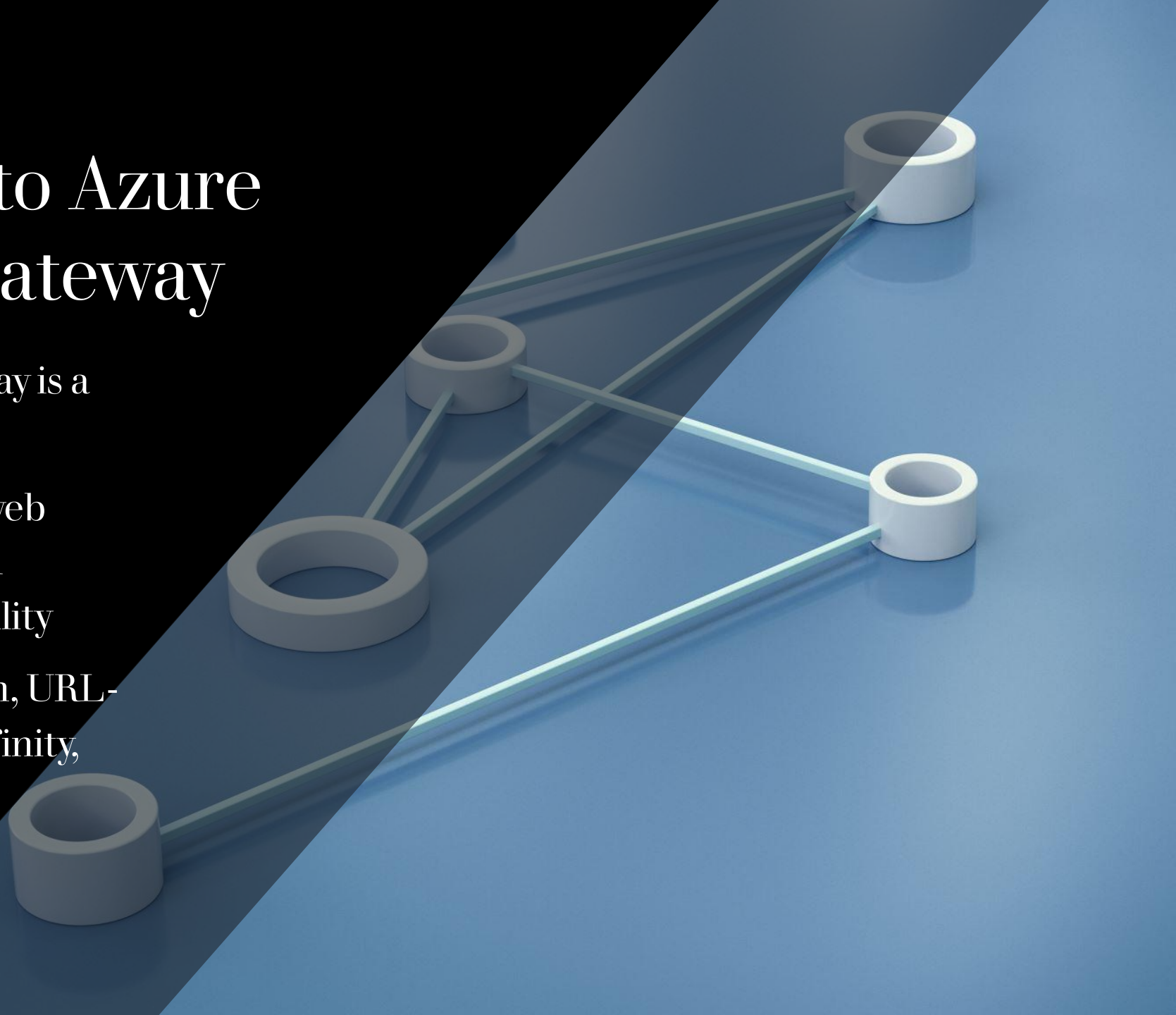
# LOAD BALANCER

# Introduction to Azure Application Gateway

- Azure Application Gateway is a layer 7 load balancer
- It directs traffic to your web applications for improved performance and availability
- Features SSL termination, URL-based routing, session affinity, and WAF for security



# Prerequisites

- An Azure subscription
- Backend web servers

# Step 1: Sign in to the Azure Portal

GO TO PORTAL.AZURE.COM
IN YOUR WEB BROWSER

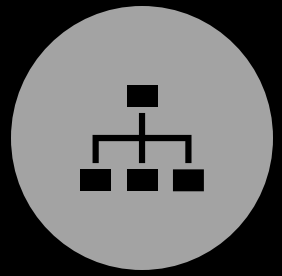
SIGN IN WITH YOUR AZURE
ACCOUNT CREDENTIALS

# Step 2: Create an Application Gateway

- Click on "+ Create a resource" in the upper-left corner
- Search for "Application Gateway" and select it from the results
- Click "Create" to start the creation process

# Step 3: Basics Configuration

SELECT SUBSCRIPTION, RESOURCE GROUP, AND REGION



CHOOSE "STANDARD" OR "WAF" TIER

DEFINE A NAME FOR THE APPLICATION GATEWAY

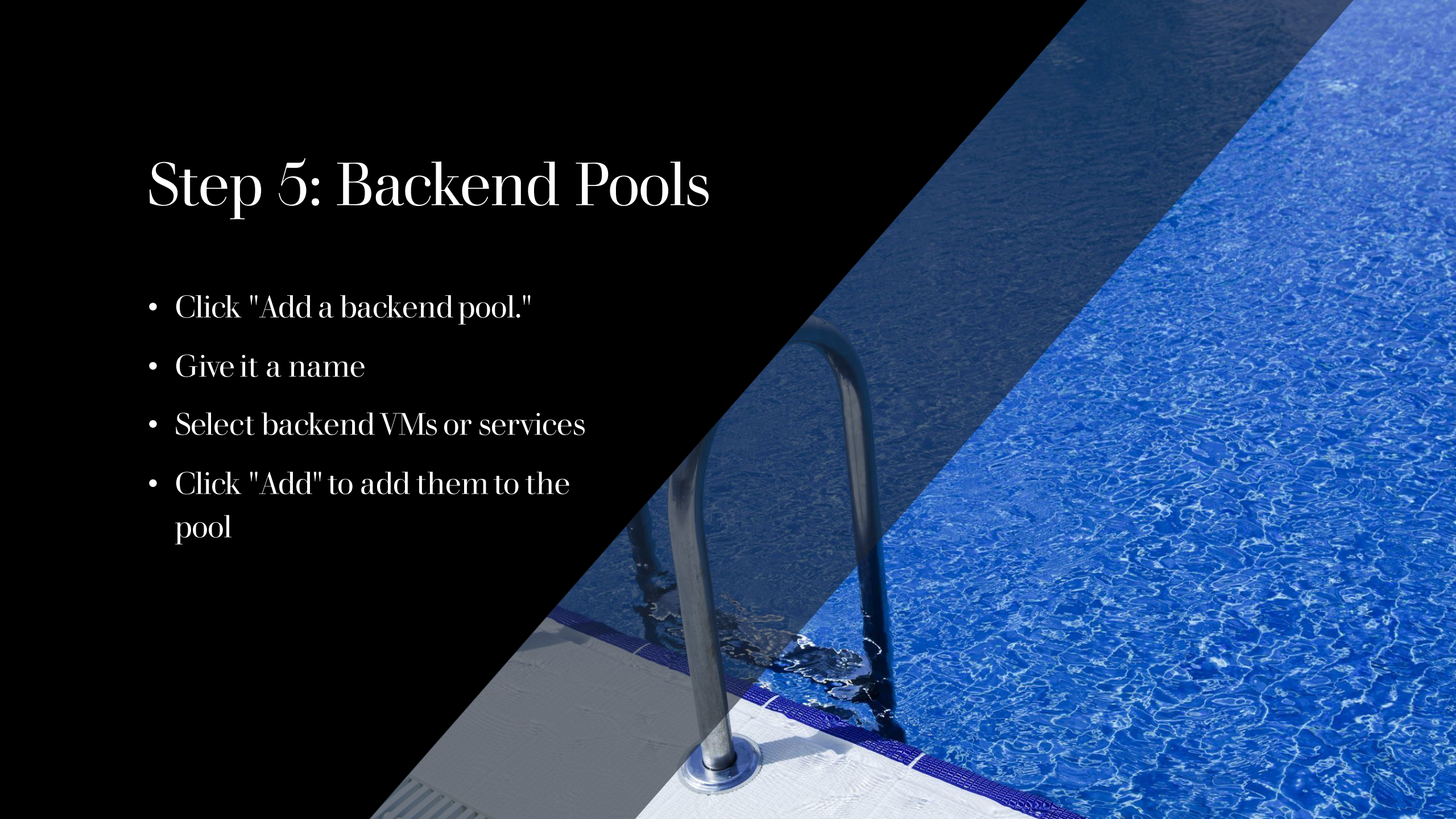
CHOOSE "PUBLIC" OR "PRIVATE" IP ADDRESS

# Step 4: Frontend IP Addresses

- Choose existing public IP or create a new one
- Select an existing subnet

# Step 5: Backend Pools

- Click "Add a backend pool."
- Give it a name
- Select backend VMs or services
- Click "Add" to add them to the pool



# Step 6: Backend HTTP Settings

Click "Add a backend HTTP setting."

Provide a name

Configure port, protocol, and session affinity

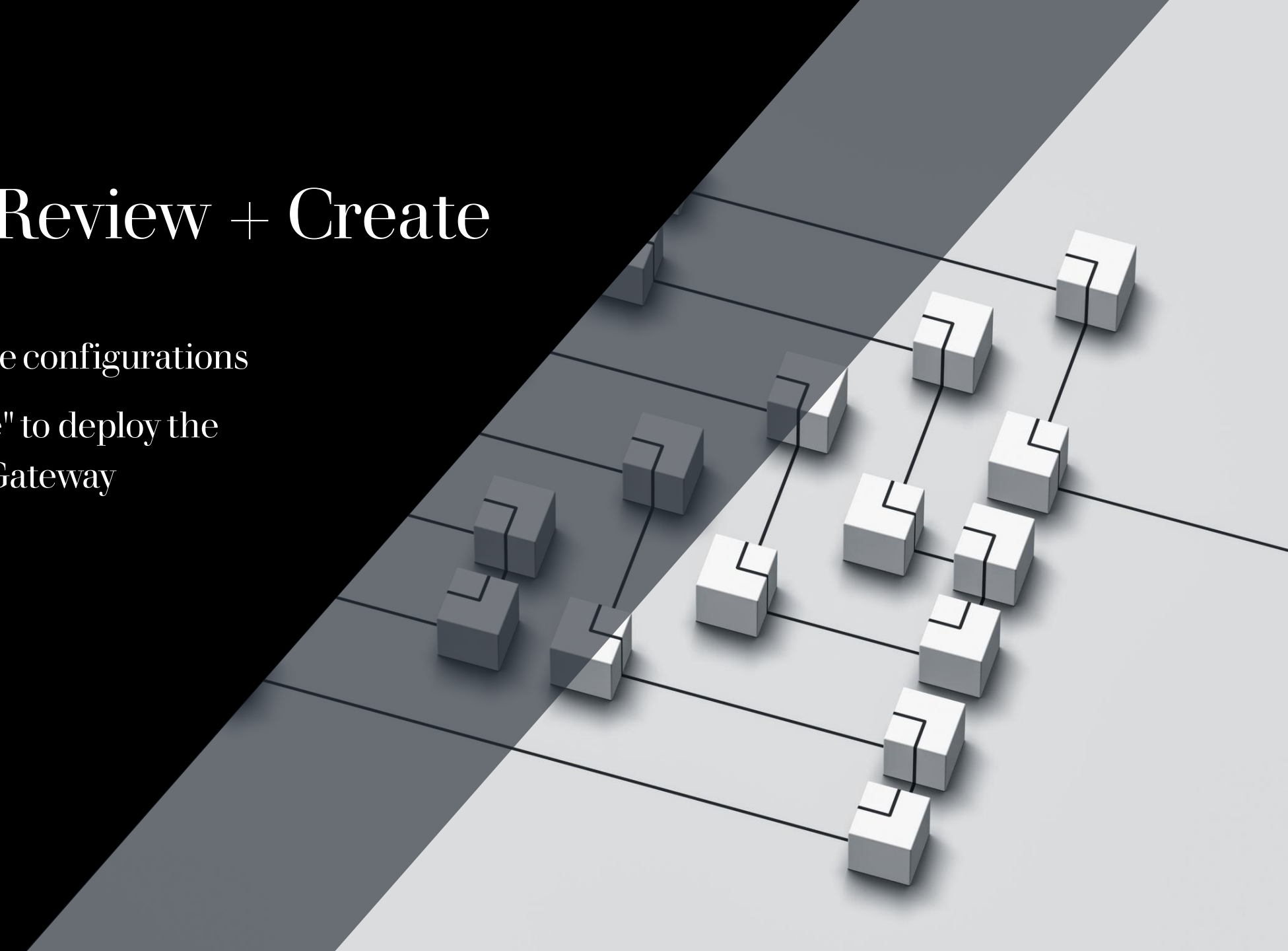
Click "Add" to create the setting

# Step 7: Routing Rules

- Click "Add a routing rule."
- Give it a name
- Define the frontend IP and port
- Choose the backend pool and HTTP setting
- Optional: Enable path-based routing

# Step 8: Review + Create

- Review all the configurations
- Click "Create" to deploy the Application Gateway



# Step 9: Access and Test

- Obtain the public or private IP address from the overview page
- Update DNS settings or application configurations
- Test your web applications using the Application Gateway

# Conclusion

- You've successfully created an Application Gateway in Azure
- It now directs traffic to your web applications, providing enhanced performance and security
- Remember to monitor the Application Gateway regularly for optimal performance