

Azure Deployment Setup Guide



CRITICAL: Missing Azure Infrastructure

Your GitHub Actions deployment is failing because the Azure Web App `ai-event-planner-saas` doesn't exist yet. This guide will help you create all necessary Azure resources.



Prerequisites

1. **Azure CLI:** Install from <https://docs.microsoft.com/en-us/cli/azure/install-azure-cli>
2. **Azure Account:** Active Azure subscription
3. **GitHub Access:** Repository admin permissions for setting secrets



Step 1: Create Azure Resources

Run the automated setup script:

```
# Login to Azure first
az login

# Make script executable (if not already)
chmod +x scripts/01_create_azure_resources.sh

# Run the setup script
./scripts/01_create_azure_resources.sh
```

What This Script Creates:

- **Resource Group:** `ai-event-planner-rg`
- **App Service Plan:** `ai-event-planner-plan` (Linux B1)
- **Web App:** `ai-event-planner-saas` (Python 3.9)
- **PostgreSQL Database:** `ai-event-planner-db-XXXXXX` (Flexible Server)
- **Database:** `aieventplanner`
- **Firewall Rules:** Configured for Azure services
- **Basic Environment Variables:** Set on Web App

Important Output:

The script will display database credentials - **SAVE THESE!**



Database Credentials (SAVE THESE!):

Username: dbadmin

Password: [generated-password]

Connection String: postgresql://...

Step 2: Configure GitHub Secrets

Add these secrets to your GitHub repository ([Settings](#) > [Secrets and variables](#) > [Actions](#)):

Required Secrets:

1. **AZURE_CREDENTIALS**

```
# Get credentials for GitHub Actions
az ad sp create-for-rbac --name "github-actions-ai-event-planner" \
  --role contributor \
  --scopes /subscriptions/${az account show --query id -o tsv} \
  --sdk-auth
```

Copy the entire JSON output to GitHub secret **AZURE_CREDENTIALS**

2. **DATABASE_URL**

Use the connection string from Step 1 output

3. **SECRET_KEY**

```
openssl rand -base64 32
```

4. **OPENAI_API_KEY** (Optional)

Your OpenAI API key for AI features

5. **GOOGLE_API_KEY** (Optional)

Your Google API key for AI features

6. **TAVILY_API_KEY** (Optional)

Your Tavily API key for search functionality

Step 3: Set Additional Environment Variables

Set any additional environment variables directly on the Azure Web App:

```
# Example: Set OpenAI API Key
az webapp config appsettings set \
  --name ai-event-planner-saas \
  --resource-group ai-event-planner-rg \
  --settings OPENAI_API_KEY="your-key-here"

# Example: Set Google API Key
az webapp config appsettings set \
  --name ai-event-planner-saas \
  --resource-group ai-event-planner-rg \
  --settings GOOGLE_API_KEY="your-key-here"
```



Step 4: Deploy Application

After completing Steps 1-3, your GitHub Actions workflow should work:

1. **Push to main branch** or **manually trigger workflow**
2. **Monitor deployment** in GitHub Actions tab
3. **Access application** at: <https://ai-event-planner-saas.azurewebsites.net>



Troubleshooting

If deployment still fails:

1. **Check Resource Names:** Ensure GitHub workflow uses correct names:
 - App Name: `ai-event-planner-saas`
 - Resource Group: `ai-event-planner-rg`
2. **Verify GitHub Secrets:** All required secrets are set correctly
3. **Check Azure Logs:**

```
az webapp log tail --name ai-event-planner-saas --resource-group  
ai-event-planner-rg
```

4. **Manual Deployment Test:**

```
# Test if resource exists  
az webapp show --name ai-event-planner-saas --resource-group ai-  
event-planner-rg
```

Common Issues:

- **"Resource doesn't exist":** Run Step 1 setup script
- **"Authentication failed":** Check AZURE_CREDENTIALS secret
- **"Database connection failed":** Verify DATABASE_URL secret
- **"Application errors":** Check missing environment variables



Resource Costs

Estimated monthly cost (B1 tier):

- **App Service Plan (B1):** ~\$13/month
- **PostgreSQL Flexible Server (Standard_B1ms):** ~\$12/month
- **Total:** ~\$25/month

Cost optimization:

- Use **F1 (Free)** tier for development: \$0/month (limited resources)
- Scale up to **S1** or higher for production with more traffic

Updating Resources

To modify resources later:

```
# Scale up App Service Plan
az appservice plan update \
  --name ai-event-planner-plan \
  --resource-group ai-event-planner-rg \
  --sku S1

# Add custom domain (optional)
az webapp config hostname add \
  --webapp-name ai-event-planner-saas \
  --resource-group ai-event-planner-rg \
  --hostname yourdomain.com
```

Verification Checklist

- ☐ Azure CLI installed and logged in
- ☐ Setup script completed successfully
- ☐ Database credentials saved
- ☐ GitHub secrets configured
- ☐ Additional environment variables set
- ☐ GitHub Actions workflow triggered
- ☐ Application accessible at Azure URL

Need Help?

1. **Check Azure Portal:** Verify resources exist at portal.azure.com
2. **Review GitHub Actions logs:** Look for specific error messages
3. **Check application logs:** Use Azure Log Stream
4. **Database connectivity:** Test connection string manually

Next Step: Run `./scripts/01_create_azure_resources.sh` to create your Azure infrastructure!