Azure Direct Deployment Guide

This guide explains how to deploy your AI Event Planner SaaS application directly to Azure without using GitHub Actions.

Quick Start

Deploy your application with a single command:

```
./scripts/deploy_to_azure.sh
```

That's it! The script handles everything automatically.

What the Script Does

The deployment script automates the following steps:

1. **Cleans up** previous deployment artifacts
2. **Creates** a deployment package with your application code
3. **Deploys** directly to Azure using the Azure CLI
4. **Cleans up** temporary files
5. **Shows** deployment status and URL

Prerequisites

Before running the script, ensure you have:

- ✅ Azure CLI installed and configured (`az login`)
- ✅ Proper permissions for the resource group `ai-event-planner-rg`
- ✅ The app service `ai-event-planner-saas-py` is already created

Script Output

The script provides colored output showing:

- 🟡 Progress through each step
- 🟢 Success confirmations
- 🔵 Deployment details and URL

Example output:

```
╔═══════════════════════════════════════╗
║  Azure Direct Deployment Script       ║
║  AI Event Planner SaaS                ║
╚═══════════════════════════════════════╝
```

```
[1/5] Cleaning up previous deployment artifacts...
✓ Cleanup complete

[2/5] Creating deployment package...
✓ Deployment package created: 1.4M

[3/5] Deploying to Azure...
   → Resource Group: ai-event-planner-rg
   → App Name: ai-event-planner-saas-py

✓ Deployment initiated successfully

[4/5] Cleaning up temporary files...
✓ Temporary files removed

[5/5] Checking deployment status...

╔═══════════════════════════════════════╗
║  Deployment Complete!                 ║
╚═══════════════════════════════════════╝

  App Status: Running
  App URL: https://ai-event-planner-saas-py.azurewebsites.net
```

Monitoring Deployment

The build process takes 10-15 minutes. Monitor with:

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

Environment Variables

The script uses the current Azure configuration. Key environment variables:

- **DATABASE_URL**: PostgreSQL connection string (already configured)
- **SECRET_KEY**: Application secret key (already configured)
- **OPENAI_API_KEY**: OpenAI API key (already configured)
- **LLM_PROVIDER**: Set to "openai"
- **LLM_MODEL**: Set to "gpt-4"

All environment variables are pre-configured and don't need to be changed.

Troubleshooting

Script fails with "command not found"

Make sure the Azure CLI is installed:

```
az --version
```

If not installed, visit: https://docs.microsoft.com/en-us/cli/azure/install-azure-cli

Permission denied when running script

Make the script executable:

```
chmod +x scripts/deploy_to_azure.sh
```

Azure authentication error

Login to Azure:

```
az login
```

Check deployment status

```
az webapp show --name ai-event-planner-saas-py --resource-group ai-event-planner-rg
```

View application logs

```
# Tail logs in real-time
az webapp log tail --name ai-event-planner-saas-py --resource-group ai-event-planner-rg

# Download logs
az webapp log download --name ai-event-planner-saas-py --resource-group ai-event-planner-rg
```

Advantages Over GitHub Actions

- ⚡ **Faster**: Deploy in seconds, not minutes
- 🎯 **Direct**: No waiting for CI/CD pipeline
- 🔍 **Transparent**: See exactly what's being deployed
- 🛠️ **Flexible**: Easy to modify for your needs
- 📦 **Reliable**: No GitHub quota limits

Configuration

The script uses these default values (can be modified in the script):

```
RESOURCE_GROUP="ai-event-planner-rg"
APP_NAME="ai-event-planner-saas-py"
DEPLOY_DIR="deploy"
DEPLOY_ZIP="deploy.zip"
```

Files Included in Deployment

The script deploys these directories and files:

- `app/` - Application code
- `migrations/` - Database migrations
- `scripts/` - Utility scripts
- `alembic.ini` - Alembic configuration
- `requirements.txt` - Python dependencies
- `startup.sh` - Startup script

Post-Deployment

After deployment completes:

1. **Wait 10-15 minutes** for the build process to complete
2. **Test your application** at: https://ai-event-planner-saas-py.azurewebsites.net
3. **Verify PostgreSQL connection** by checking logs
4. **Test authentication** by logging in or registering

Additional Commands

Restart the application

```
az webapp restart --name ai-event-planner-saas-py --resource-group ai-event-planner-rg
```

Stop the application

```
az webapp stop --name ai-event-planner-saas-py --resource-group ai-event-planner-rg
```

Start the application

```
az webapp start --name ai-event-planner-saas-py --resource-group ai-event-planner-rg
```

Support

For issues or questions about deployment:

1. Check the troubleshooting section above
2. Review Azure logs for detailed error messages
3. Ensure all prerequisites are met

Application URL: https://ai-event-planner-saas-py.azurewebsites.net

Last Updated: October 2025