

# Azure Hosting Analysis Report

Offer Letter Compliance Checker Application

## ■ Recommended Solution

**Azure Container Apps (Consumption Plan)**  
Monthly Cost: \$15-35 | Annual Cost: \$180-420

## Cost Comparison

| Service               | Monthly | Annual    | Best For               |
|-----------------------|---------|-----------|------------------------|
| Container Apps ■      | \$15-35 | \$180-420 | Testing, variable load |
| Virtual Machine (B2s) | \$49    | \$588     | Full control needed    |
| Container Instances   | \$98    | \$1,176   | Short-lived tasks      |
| App Service (B2 x2)   | \$149   | \$1,788   | Production always-on   |

## Why Container Apps is Best for Testing

- Cost-Effective: Pay only for what you use, with generous free tier
- Docker-Native: Your existing docker-compose.yml easily adapts
- Zero Infrastructure: Focus on testing, not server maintenance
- Auto-Scaling: Handles traffic spikes automatically
- Multi-Container: Run React, Flask, and ONLYOFFICE together
- Built-in Monitoring: Azure Monitor included

# Application Architecture Overview

**Technology Stack:** React.js Frontend, Flask Backend, ONLYOFFICE Document Server, GLiNER AI Model, SpaCy NLP, Docker Containers

## Resource Requirements

| Component              | CPU             | Memory        | Storage        |
|------------------------|-----------------|---------------|----------------|
| React Frontend         | 0.5 vCPU        | 512 MB        | 100 MB         |
| Flask Backend + AI     | 1 vCPU          | 2 GB          | 500 MB         |
| ONLYOFFICE Server      | 1 vCPU          | 2 GB          | 1 GB           |
| File Storage           | -               | -             | 5-10 GB        |
| <b>Total (Minimum)</b> | <b>2.5 vCPU</b> | <b>4.5 GB</b> | <b>6-11 GB</b> |

## Next Steps

1. Sign up for Azure Free Account (\$200 credit for 30 days)
2. Set billing alerts at \$20, \$50, \$100
3. Build and push Docker images to Azure Container Registry
4. Create Container Apps Environment
5. Deploy your three containers (React, Flask, ONLYOFFICE)
6. Configure environment variables and networking
7. Monitor costs and adjust scaling rules

*For detailed analysis, please refer to the HTML report: Azure\_Hosting\_Analysis.html*