

Cloudvisor AI Agent - One-Click Deployment Guide

Deploy a complete Bedrock RAG agent in your AWS account in under 10 minutes.

Quick Deploy (Recommended)

Step 1: Deploy OpenSearch Infrastructure

Click this link to deploy the OpenSearch Serverless collection and index:

[Deploy OpenSearch Stack →](#)

- Check "I acknowledge that AWS CloudFormation might create IAM resources"
- Click **Create stack**
- Wait 3-5 minutes for completion

Step 2: Deploy Main Application

Click this link to deploy the agent application:

[Deploy Agent Stack →](#)

- Check "I acknowledge that AWS CloudFormation might create IAM resources"
- Click **Create stack**
- Wait 5-10 minutes for completion

What Gets Deployed

OpenSearch Stack

- OpenSearch Serverless collection (vector store)
- Vector index with 1024-dimension embeddings

- IAM roles for Bedrock Knowledge Base access
- Security policies (encryption, network, data access)

Main Application Stack

- **Frontend:** CloudFront + S3 hosted UI
- **Backend:** API Gateway + Lambda functions
- **AI:** Bedrock Knowledge Base + Amazon Nova Lite model
- **Storage:** S3 buckets for documents and UI assets
- **Security:** IAM roles with least privilege access

🎯 Getting Started

1. Get your agent URL:

- Go to CloudFormation → `cloudvisor-chatbot` stack → Outputs tab
- Copy the `CloudFrontURL` value

2. Upload documents:

- Option A: Use the upload button in the agent UI
- Option B: Upload directly to the S3 documents bucket

3. Sync Knowledge Base:

- Click "Rebuild Knowledge Base" in the UI
- Wait 2-3 minutes for processing

4. Start chatting:

- Ask questions about your documents
- The AI will only answer based on your uploaded content

🔍 Troubleshooting

Model Access Issues

If you get "model not available" errors:

1. Go to Bedrock console → Model access
2. Request access to "Amazon Nova Lite"
3. Wait for approval (usually instant)

Upload Issues

If file uploads fail:

1. Check S3 bucket CORS configuration
2. Try uploading directly to S3 console
3. Use "Rebuild Knowledge Base" after manual upload

Chat Not Working

1. Verify Knowledge Base has documents synced
2. Check Lambda logs in CloudWatch
3. Ensure Nova Lite model access is granted



Cleanup

Option 1: AWS Console (Recommended)

Step 1: Delete Main Application Stack

1. Go to [CloudFormation Console](#)
2. Select `cloudvisor-chatbot` stack
3. Click **Delete**
4. Click **Delete stack** to confirm
5. Wait 5-10 minutes for deletion to complete

Step 2: Delete OpenSearch Stack

1. In CloudFormation console, select `cloudvisor-opensearch` stack
2. Click **Delete**
3. Click **Delete stack** to confirm

4. Wait 3-5 minutes for deletion to complete

Step 3: Verify Cleanup (Optional)

1. Check S3 console - buckets should be deleted
2. Check Bedrock console - Knowledge Base should be removed
3. Check OpenSearch Serverless - collection should be deleted

Option 2: AWS CLI

```
# Delete main stack first
aws cloudformation delete-stack --stack-name cloudvisor-chatbot --region eu-central-1

# Wait for completion, then delete OpenSearch stack
aws cloudformation delete-stack --stack-name cloudvisor-opensearch --region eu-central-1
```

⚠ Important Notes

- **Delete main stack FIRST** - it depends on OpenSearch resources
- **S3 buckets** are automatically emptied and deleted by CloudFormation
- **All data will be permanently lost** - download any important documents first
- **Costs stop immediately** once resources are deleted

📞 Support

For issues or questions:

- Check AWS CloudFormation console for deployment errors
- Review CloudWatch logs for runtime issues
- Contact Cloudvisor support for assistance

🎉 Ready to deploy? Click the links above to get started!