



Welcome to your Docling AI Server (AMI)

Usage instructions:

1. Launch the product via 1-click from AWS Marketplace. **Wait** until the instance status changes to 'Running' and passes all health checks. Then, connect to your instance using your Amazon private key and the '**ubuntu**' user."

To update software, use: **sudo apt update && sudo apt upgrade -y**

SETUP STEPS (FIRST-TIME USE)

1. You will need to create a “bucket” in your Amazon S3 account that will save your converted files.
2. Next you will also need to “Create Role” for this instance under the “IAM” section of your AWS dashboard.

Note: That role must have these permissions to allow the instance to interact with your S3 bucket:

- s3:PutObject
- s3:ListBucket or
- **AmazonS3FullAccess**

3: Name & Create the Role

- Name it: **DoclingEC2Access** (for example)
- Description: Access for EC2-based Docling app to use S3
- Click **Create role**

4: Now attach the Role to Your EC2 Instance

- Go to your **EC2 Dashboard**
- Select your instance
- Click **Actions** → **Security** → **Modify IAM Role**
- Choose: **DoclingEC2Access**
- Click **Update IAM role**

5. Once Instance is fully launched:

- In a web browser visit: **http://your-instance_public_ip_address**
 - Paste a document URL (e.g., <https://arxiv.org/pdf/2408.09869>)
 - Or upload a document from your computer
- Enter your **bucket name**
- Click “**Convert + Upload**”

Convert Document to Markdown + Upload to S3

Upload File (PDF, DOCX, etc.):

No file chosen

OR enter Document URL:

Your S3 Bucket Name:

***Be patient (depending on the size of your instance and documents) may take quite a few minutes while the server converts your document into a Markdown. It is a very CPU intensive process. For faster results, use machine-readable PDFs or shorter documents.**

The file will:

- Automatically appear in your **S3 bucket** and as a downloadable file as ``output.md``

(Helpful Tip: Be sure to rename once downloaded for record keeping)

Your document has been successfully converted to clean, structured Markdown.

- This format is ideal for feeding into AI models, embedding in HTML-friendly applications, or storing as lightweight, readable text.
- Use it as input for large language models (LLMs), semantic search engines, or any GenAI pipeline that benefits from well-structured content.

Troubleshooting

- To restart the app:

```
sudo systemctl restart docling
```

- To view logs:

```
journalctl -u docling -f
```

- To Increase client_max_body_size in Nginx, use:

```
sudo nano /etc/nginx/sites-available/docling
```

AWS Data

- Data Encryption Configuration: This solution does not encrypt data within the running instance.
- User Credentials are stored: /root/.ssh/authorized_keys & /home/ubuntu/.ssh/authorized_keys
- Monitor the health:
 - Navigate to your Amazon EC2 console and verify that you're in the correct region.
 - Choose Instance and select your launched instance.
 - Select the server to display your metadata page and choose the Status checks tab at the bottom of the page to review if your status checks passed or failed.

Extra Information: (Optional)

Allocate Elastic IP

To ensure that your instance **keeps its IP during restarts** that might happen, configure an Elastic IP. From the EC2 console:

1. Select ELASTIC IPs.
2. Click on the ALLOCATE ELASTIC IP ADDRESS.
3. Select the default (Amazon pool of IPv4 addresses) and click on ALLOCATE.
4. From the ACTIONS pull down, select ASSOCIATE ELASTIC IP ADDRESS.
5. In the box that comes up, note down the Elastic IP Address, which will be needed when you configure your DNS.
6. In the search box under INSTANCE, click and find your INSTANCE ID and then click ASSOCIATE.
7. Your instance now has an elastic IP associated with it.
8. For additional help: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html>

Using Your Own Domain Name

1. You will need to configure your DNS entry for the new host server you created.
2. Change your domain's "Record Set" value to point to your new instance. Change and copy your "IPv4 Public IP" into the "A" type value.
3. For additional help:
<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/rrsets-working-with.html>

Deploy a Load Balancer

1. <https://docs.aws.amazon.com/elasticloadbalancing/latest/userguide/load-balancer-getting-started.html>

Deploy a SSL for a Domain Name

1. Install AWS Certificate:
<https://docs.aws.amazon.com/elasticloadbalancing/latest/classic/ssl-server-cert.html>

or
2. Installing Cerbot: <https://certbot.eff.org/instructions>