MarkLogic®

HOW TO LAUNCH MARKLOGIC ON AMAZON WEB SERVICES

Jon Williams, Senior Sales Engineer, MarkLogic

https://aws.amazon.com/marketplace/seller-profile?id=e86516ea-dbbb-4e05-a2f0-6d6c0af22dc4

awsmarketplace

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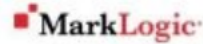
MarkLogic Corporation

About MarkLogic Corporation

For over a decade, organizations around the world have come to rely on MarkLogic to power their innovative information applications. As the world's experts at integrating data from silos, MarkLogic's operational and transactional enterprise NoSQL database platform empowers our customers to build next generation applications on a unified, 360-degree view of their data. Headquartered in Silicon Valley, MarkLogic has offices throughout the U.S., Europe, Asia, and Australia. For more information, please visit www.marklogic.com.

MarkLogic Corporation

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MarkLogic for AWS Marketplace is the only Enterprise NoSQL database. It is a new generation database built with a flexible data model to store, manage, and search JSON, ...

Linux/Unix, Amazon Linux 2016.03 | 64-bit Amazon Machine Image (AMI)

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MarkLogic Developer 8 (HVM)

Sold by: MarkLogic | See product video ▣

MarkLogic for AWS Marketplace is the only Enterprise NoSQL database. It is a new generation database built with a flexible data model to store, manage, and search JSON, XML, RDF, and more - without sacrificing enterprise features such as ACID transactions, certified security, and backup and recovery. With these capabilities, MarkLogic is ideally suited for making heterogeneous data integration simpler and faster and for doing dynamic content delivery at massive scale. The Developer Edition includes all features but is limited to pre-production applications and 1TB in data size. This AMI can also ... Read more

Customer Rating	Be the first to review this product
Latest Version	8.0-5.1 (Other available versions)
Operating System	Linux/Unix, Amazon Linux 2016.03
Delivery Method	64-bit Amazon Machine Image (AMI) (Learn more)
Support	See details below
AWS Services Required	Amazon EC2, Amazon EBS, Auto Scaling Groups, Elastic Load Balancer, IAM Role, Amazon Simple DB, Amazon SNS
Highlights	▪ Powerful - Complex search and query across multiple types of data -- including JSON, XML, and RDF -- all in one unified platform ▪ Agile - Accelerated application development with a flexible data model that simplifies data integration and adapts to

Continue

You will have an opportunity to review your order before launching or being charged.

Pricing Details

For region

US East (N. Virginia) ▾

Bring Your Own License (BYOL)

Available for customers with current licenses purchased via other channels.

Hourly Fees

Total hourly fees will vary by instance type and EC2 region.

EC2 Instance Type ⓘ	EC2 Usage	Software	Total
t2.small	$0.026/hr	$0.00/hr	$0.026/hr

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Launch on EC2:

MarkLogic Developer 8 (HVM)

Manual Launch
With EC2 Console, APIs or CLI

Launching Options

- You can click the "Launch with EC2 Console" buttons below and following the instructions to launch an instance of this software

- You can also find and launch these AMIs by searching for the AMI IDs (shown below) in the "Community AMIs" tab of the EC2 Console 🗗 Launch Wizard

- You can view this information at a later time by visiting the Your Software page. For help, see step-by-step instructions 🗗 for launching Marketplace Products from the AWS Console.

Usage Instructions

Select a Version

8.0-5.1, released 05/03/2016 ▾

Region	ID	
US East (N. Virginia)	ami-cf4c56a5	Launch with EC2 Console
US West (Oregon)	ami-c1be4ea1	Launch with EC2 Console

Pricing Details

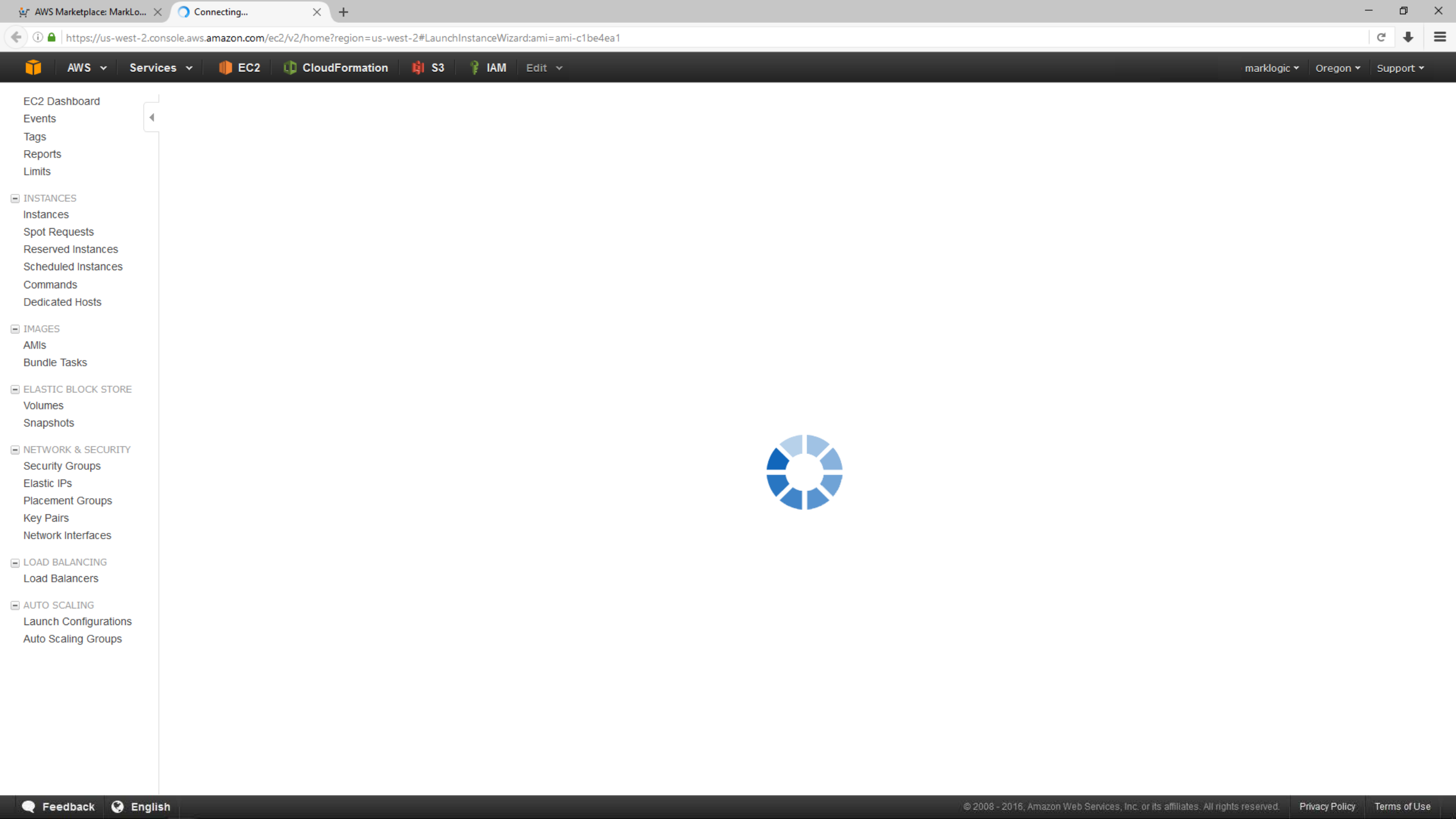**For region**

US East (N. Virginia) ▾

Bring Your Own License (BYOL)

Available for customers with current licenses purchased via other channels.

Hourly Fees

Total hourly fees will vary by instance type and EC2 region.

EC2 Instance Type	Software		EC2	Total
t2.small	$0.00/hr	$0.00/yr	$0.026/hr	**$0.026/hr**
t2.medium	$0.00/hr	$0.00/yr	$0.052/hr	**$0.052/hr**
t2.large	$0.00/hr	$0.00/yr	$0.104/hr	**$0.104/hr**
m4.large	$0.00/hr	$0.00/yr	$0.12/hr	**$0.12/hr**
m4.xlarge	$0.00/hr	$0.00/yr	$0.239/hr	**$0.239/hr**
m4.2xlarge	$0.00/hr	$0.00/yr	$0.479/hr	**$0.479/hr**
m4.4xlarge	$0.00/hr	$0.00/yr	$0.958/hr	**$0.958/hr**
m4.10xlarge	$0.00/hr	$0.00/yr	$2.394/hr	**$2.394/hr**
m3.medium	$0.00/hr	$0.00/yr	$0.067/hr	**$0.067/hr**
m3.large	$0.00/hr	$0.00/yr	$0.133/hr	**$0.133/hr**
m3.xlarge	$0.00/hr	$0.00/yr	$0.266/hr	**$0.266/hr**

AWS | Services | EC2 | CloudFormation | S3 | IAM | Edit | marklogic | Oregon | Support

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LOAD BALANCING
Load Balancers

AUTO SCALING
Launch Configurations
Auto Scaling Groups

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:ami=ami-c1be4ea1

AWS ⌄   Services ⌄   EC2   CloudFormation   S3   IAM   Edit ⌄   marklogic ⌄   Oregon ⌄   Support ⌄

| 1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Tag Instance | 6. Configure Security Group | 7. Review |

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.

Filter by: All instance types ⌄   Current generation ⌄   Show/Hide Columns

Currently selected: c3.xlarge (14 ECUs, 4 vCPUs, 2.8 GHz, Intel Xeon E5-2680v2, 7.5 GiB memory, 2 x 40 GiB Storage Capacity)

	Family	Type	vCPUs ⓘ	Memory (GiB)	Instance Storage (GB) ⓘ	EBS-Optimized Available ⓘ	Network Performance ⓘ
☐	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
☐	General purpose	t2.micro **Free tier eligible**	1	1	EBS only	-	Low to Moderate
☐	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
☐	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
☐	General purpose	t2.large	2	8	EBS only	-	Low to Moderate
☐	General purpose	m4.large	2	8	EBS only	Yes	Moderate
☐	General purpose	m4.xlarge	4	16	EBS only	Yes	High
☐	General purpose	m4.2xlarge	8	32	EBS only	Yes	High
☐	General purpose	m4.4xlarge	16	64	EBS only	Yes	High
☐	General purpose	m4.10xlarge	40	160	EBS only	Yes	10 Gigabit
☑	General purpose	m3.large	2	7.5	1 x 32 (SSD)	-	Moderate
☐	General purpose	m3.large	2	7.5	1 x 32 (SSD)	-	Moderate
☐	General purpose	m3.xlarge	4	15	2 x 40 (SSD)	Yes	High
☐	General purpose	m3.2xlarge	8	30	2 x 80 (SSD)	Yes	High

Cancel   Previous   Review and Launch   Next: Configure Instance Details

AWS ⌄   Services ⌄   EC2   CloudFormation   S3   IAM   Edit ⌄   marklogic ⌄   Oregon ⌄   Support ⌄

1. Choose AMI   2. Choose Instance Type   3. Configure Instance   4. Add Storage   5. Tag Instance   6. Configure Security Group   7. Review

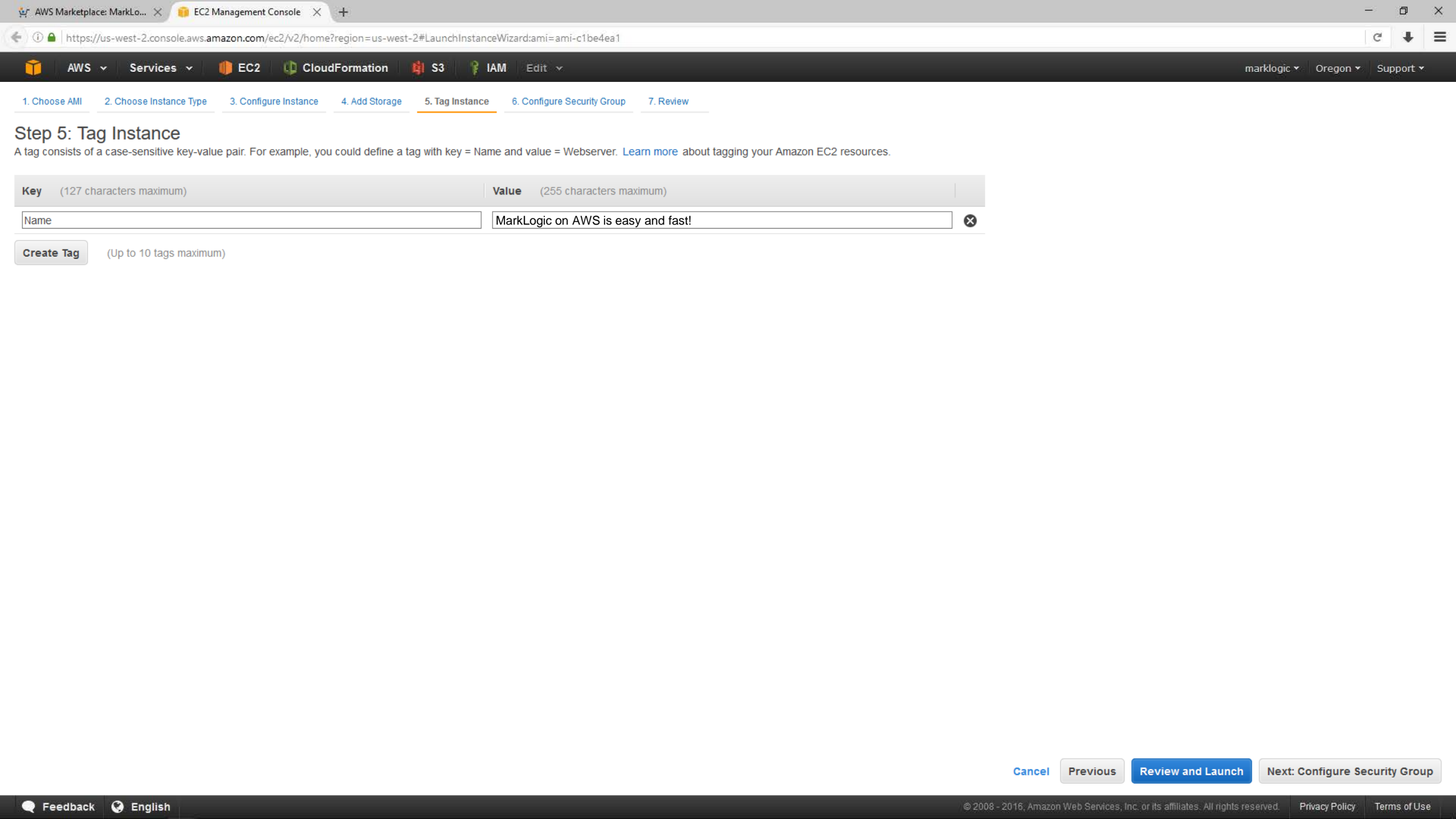# Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances ⓘ	`1` Launch into Auto Scaling Group ⓘ
Purchasing option ⓘ	☐ Request Spot instances
Network ⓘ	`Launch into EC2-Classic` ▾ ↻ Create new VPC
Availability Zone ⓘ	`No preference` ▾
IAM role ⓘ	`None` ▾ ↻ Create new IAM role
Shutdown behavior ⓘ	`Stop` ▾
Enable termination protection ⓘ	☐ Protect against accidental termination
Monitoring ⓘ	☐ Enable CloudWatch detailed monitoring Additional charges apply.

▸ Advanced Details

Cancel   Previous   **Review and Launch**   Next: Add Storage

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:ami=ami-c1be4ea1

AWS ⌄   Services ⌄   EC2   CloudFormation   S3   IAM   Edit ⌄   marklogic ⌄   Oregon ⌄   Support ⌄

1. Choose AMI   2. Choose Instance Type   3. Configure Instance   4. Add Storage   5. Tag Instance   6. Configure Security Group   7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encrypted ⓘ	
Root	/dev/xvda	snap-3cf5be7a	8	General Purpose SSD (GP2)	24 / 3000	N/A	☑	Not Encrypted	
EBS	/dev/sdf	Search (case-insensit	214	General Purpose SSD (GP2)	642 / 3000	N/A	☐	☐	⊗

/dev/sdb
/dev/sdc
/dev/sdd
/dev/sde
/dev/sdf
/dev/sdg
/dev/sdh
/dev/sdi
/dev/sdj
/dev/sdk
/dev/sdl

Add New Volume

Cancel   Previous   Review and Launch   Next: Tag Instance

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1. Choose AMI   2. Choose Instance Type   3. Configure Instance   4. Add Storage   5. Tag Instance   6. Configure Security Group   7. Review

Step 5: Tag Instance

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. Learn more about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)	
Name	MarkLogic on AWS is easy and fast!	⊗

Create Tag   (Up to 10 tags maximum)

Cancel   Previous   Review and Launch   Next: Configure Security Group

AWS ⌄   Services ⌄   EC2   CloudFormation   S3   IAM   Edit ⌄   marklogic ⌄   Oregon ⌄   Support ⌄

1. Choose AMI   2. Choose Instance Type   3. Configure Instance   4. Add Storage   5. Tag Instance   6. Configure Security Group   7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.

Assign a security group: ⦿ Create a **new** security group

                             ○ Select an **existing** security group

Security group name: launch-wizard-9

Description: launch-wizard-9 created 2016-05-05T16:18:53.729-07:00

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	
SSH ⌄	TCP	22	Anywhere ⌄ 0.0.0.0/0	✕
Custom TCP Rule ⌄	TCP	7997-8100	Anywhere ⌄ 0.0.0.0/0	✕

Add Rule

⚠ **Warning**
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel   Previous   Review and Launch

AWS ⌄   Services ⌄   EC2   CloudFormation   S3   IAM   Edit ⌄   marklogic ⌄   Oregon ⌄   Support ⌄

1. Choose AMI   2. Choose Instance Type   3. Configure Instance   4. Add Storage   5. Tag Instance   6. Configure Security Group   7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ **Improve your instances' security. Your security group, launch-wizard-9, is open to the world.**
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.
You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. Edit security groups

⚠ **Your instance configuration is not eligible for the free usage tier**
To launch an instance that's eligible for the free usage tier, check your AMI selecti...   ...ge restrictions.

Don't show me this again

Select an existing key pair or create a new key pair   ✕

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Choose an existing key pair   ▾

Select a key pair
Test   ▾

☑ I acknowledge that I have access to the selected private key file (Test.pem), and that without this file, I won't be able to log into my instance.

Cancel   **Launch Instances**

▼ AMI Details   Edit AMI

🔴 **ML8051a-Linux-HVM-MarkLogic-RHEL6-8.0-5.1.x86_64.rpm-8d0327ed-**
ML8051a-Linux HVM MarkLogic-RHEL6-8.0-5.1.x86_64.rpm
Root Device Type: ebs   Virtualization type: hvm

▼ Instance Type   Edit instance type

Instance Type	ECUs	vCPUs	Memory (GiB)	Insta...
m3.large	6.5	2	7.5	1 x 32

▼ Security Groups   Edit security groups

Security group name   launch-wizard-9
Description   launch-wizard-9 created 2016-05-05T16:18:53.729-07:00

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
SSH	TCP	22	0.0.0.0/0
Custom TCP Rule	TCP	7997 - 8100	0.0.0.0/0

▶ Instance Details   Edit instance details

▶ Storage   Edit storage

Cancel   Previous   Launch

AWS ▾   Services ▾   📦 EC2   CloudFormation   S3   IAM   Edit ▾   marklogic ▾   Oregon ▾   Support ▾

Launch Status

✅ **Your instances are now launching**
     The following instance launches have been initiated: i-90849048   View launch log

---

ⓘ **Get notified of estimated charges**
     Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. Find out how to connect to your instances.

▼ Here are some helpful resources to get you started

- How to connect to your Linux instance
- Learn about AWS Free Usage Tier

- Amazon EC2: User Guide
- Amazon EC2: Discussion Forum

While your instances are launching you can also

- Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
- Create and attach additional EBS volumes (Additional charges may apply)
- Manage security groups

View Instances

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:ami=ami-c1be4ea1

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LOAD BALANCING
Load Balancers

AUTO SCALING
Launch Configurations
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MarkLogic Server

ESSENTIAL ENTERPRISE

8.0-5.1

ec2-54-188-223-53.us-west-2.compute.amazonaws.com
May 6, 2016
5:14 AM
No license key has been entered

MarkLogic

System Summary

| Summary | Status | Support | Logs | Usage | Help |

Configure

- Groups
- Databases
- Hosts
- Forests
- Mimetypes
- Clusters
- Security

Databases (10) -- Index, query, and content processing configuration

App-Services
Documents
Extensions
Fab
Last-Login
Meters
Modules
Schemas
Security
Triggers

App Servers (4) -- Enable connections from client software

Default :: Admin : 8001 [HTTP]
Default :: App-Services : 8000 [HTTP]
Default :: HealthCheck : 7997 [HTTP]
Default :: Manage : 8002 [HTTP]

Groups (1) -- Allow hosts to share a common configuration

Default

Forests (10) -- Manage physical content storage for databases

App-Services
Documents
Extensions
Fab
Last-Login
Meters
Modules
Schemas
Security
Triggers

Security -- Resources describing the role-based security model

Users (4)
Roles (69)
Execute Privileges (368)
URI Privileges (5)
Amps (709)
Collections (7)
Certificate Authorities (132)
Certificate Templates (0)
External Security (0)
Credentials

Hosts (1) -- Computers belonging to this cluster

Default :: ec2-54-188-223-53.us-west-2.compute.amazonaws.com

Clusters (1) -- Cluster configuration

ec2-54-188-223-53.us-west-2.compute.amazonaws.com-cluster
(Local Cluster)

Summary

- Up and running in < 5 minutes

- CloudFormation scripts available to create multi-node clusters

- Choose appropriate EC2 instance type

- Larger EBS volumes provide more IOPs