


Installing on AWS Marketplace

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Launching Riak VMs via the AWS Marketplace

In order to launch a Riak virtual machine via the AWS Marketplace, you will first need to sign up for an [Amazon Web Services](#)  account.

1. Navigate to <https://aws.amazon.com/marketplace/>  and sign in with your Amazon Web Services account.
2. Locate Riak in the “Databases & Caching” category or search for Riak from any page.
3. Set your desired AWS region, EC2 instance type, firewall settings, and key pair

Region

US East (Virginia)

EC2 Instance Type

Standard Micro (t1.micro)
Standard Small (m1.small)
Standard Medium (m1.medium)
Standard Large (m1.large)
Standard XL (m1.xlarge)
High-Memory XL (m2.xlarge)
High-Memory 2XL (m2.2xlarge)
High-Memory 4XL (m2.4xlarge)
High-CPU Medium (c1.medium)

Memory	7.5 GB
CPU	4 EC2 Compute Units (2 virtual cores with 2 EC2 Compute Units each)
Storage	850 GB instance storage
Platform	64-bit
I/O performance	High
API Name	m1.large

Firewall Settings

Firewall settings are defined in security groups. To create a new security group based on firewall settings provided by the seller, choose first option. Alternatively, choose an existing security group.

marketplace_riak

Connection Method	Protocol	Port Range	Source (IP or Group)
	tcp	4369 - 4369	marketplace_riak
	tcp	6000 - 7999	marketplace_riak
	tcp	8099 - 8099	marketplace_riak
SSH	tcp	22 - 22	0.0.0.0/0
	tcp	8087 - 8087	0.0.0.0/0
	tcp	8098 - 8098	0.0.0.0/0

Riak Security Group for AWS Marketplace

Key Pair

riak-testing

- Click the “Accept Terms and Launch with 1-Click” button.

Security Group Settings

Once the virtual machine is created you should verify your selected EC2 security group is configured properly for Riak.


1. In the AWS EC2 Management Console, click “Security Groups”, then click the name of the security group for your Riak VM.
2. Click on the “Inbound” tab in the lower pane. Your security group should include the following open ports:
 - 22 (SSH)
 - 8087 (Riak Protocol Buffers Interface)
 - 8098 (Riak HTTP Interface)
3. You will need to add additional rules within this security group to allow your Riak instances to communicate. For each port range below, create a new “Custom TCP rule” with the source set to the current security group ID (found on the “Details” tab).
 - Port range: 4369
 - Port range: 6000-7999
 - Port range: 8099
4. When complete, your security group should contain all of the rules listed below. If you are missing any rules, add them in the lower panel and then click the “Apply Rule Changes” button.

TCP Port (Service)	Source	Action
4369	sg-xxxxxxx (marketplace_riak)	Delete
6000 - 7999	sg-xxxxxxx (marketplace_riak)	Delete
8099	sg-xxxxxxx (marketplace_riak)	Delete
22 (SSH)	0.0.0.0/0	Delete
8087	0.0.0.0/0	Delete
8098	0.0.0.0/0	Delete

You can read more about Riak's [Security and Firewalls](#).

Clustering Riak on AWS

You will need need to launch at least 3 instances to form a Riak cluster. When the instances have been provisioned and the security group is configured you can connect to them using SSH or PuTTY as the ec2-user.

You can find more information on connecting to an instance on the official [Amazon EC2 instance guide](#) .

The following clustering setup will **not** be resilient to instance restarts unless deployed in Amazon VPC.

1. On the first node obtain the internal IP address:

Text

```
curl http://169.254.169.254/latest/meta-data/local-i
```

2. For all other nodes, use the internal IP address of the first node:

Text

```
sudo riak-admin cluster join riak@<ip.of.first.node>
```

3. After all of the nodes are joined, execute the following:

Text

```
sudo riak-admin cluster plan
```

If this looks good:

Text

```
sudo riak-admin cluster commit
```

To check the status of clustering use:

Text

```
sudo riak-admin member_status
```

You now have a Riak cluster on AWS.

Further Reading:

- [Basic Riak API Operations](#)

Tutorial Nav: [Installing and Upgrading](#)

[Installing on Windows Azure](#)[Installing Riak from Source](#)

These May Also Interest You

- [Installing on Windows Azure](#)
- [Installing on Debian and Ubuntu](#)
- [Installing Erlang](#)
- [Installing on FreeBSD](#)
- [Installing Riak from Source](#)
- [Installing and Upgrading](#)