Installation of eagle-i in the Amazon Cloud

These instructions have been updated recently and verified to the best of our ability. Please be aware there may be typos, ambiguities and other errors. If you find any errors, please let us know.

Troubleshooting

If you are having trouble with the installation, please take a look at our troubleshooting page.

Introduction

This document details the procedure for creating an eagle-i institutional node as a virtual server (or *instance*) in the Amazon Elastic Compute Cloud (or EC2). Once created, the eagle-i node will operate entirely in the cloud. However, you will retain administrative responsibility over its operation and maintenance, and in particular, you will be responsible for running upgrade scripts when new eagle-i software is released. We do not expect these tasks to be complex, though basic Unix skills are desirable. This solution is ideal for institutions that want to evaluate eagle-i or participate in the eagle-i network but do not have easy access to a data center service. Naturally, the AWS service will incur operational costs (for pricing details, consult the AWS website).

The installation procedure is simple and does not require specialized technical skills. It will allow you to get an eagle-i node up and running in a short amount of time. For a production system, you may need to involve your IT department, in a limited way.

A new AMI will be available for subsequent releases, likely with a slight delay after the release.

What this is: *a mechanism for instantiating an eagle-i node in the Amazon Cloud*
What this is not: *an SaS (Software as a Service) solution*

1. Getting ready

1. Prerequisites

2. Installation Procedures

1. Allocate EC2 Resources
2. Create an eagle-i node

3. Customize eagle-i node

Evaluation Node

For an evaluation node, there is no need to customize the installation any further. Using the public DNS (Create an eagle-i node -> Wait for Instance to complete initialization) as your hostname, you may now go to a browser and navigate to the eagle-i node to begin entering data, searching data, accessing the repository, etc. See verify the eagle-i node is up and running for more information on where to navigate to.

1. Prepare to Customize eagle-i Node
2. Customize eagle-i Repository
3. Create system users
4. Customize public SPARQL endpoint
5. Update node configuration file

4. Verify installation

1. Verify the eagle-i node is up and running

5. Production instance only

There are additional steps that need to happen in order to make your instance production ready. For more information about elastic IP address, please see the Amazon Documentation: Elastic IP Addresses.

1. Allocate an elastic IP address

2. Associate the elastic IP to your public hostname
3. Install your SSL Certificate