



amazon
web services™

Ahead in the Cloud

Matt Wood

TECHNOLOGY EVANGELIST



Hello.

Thank you.

“

Don't be afraid to be
a bit technical!

”

Where Will Be Code

3

1

Building blocks

Infrastructure services

Compute

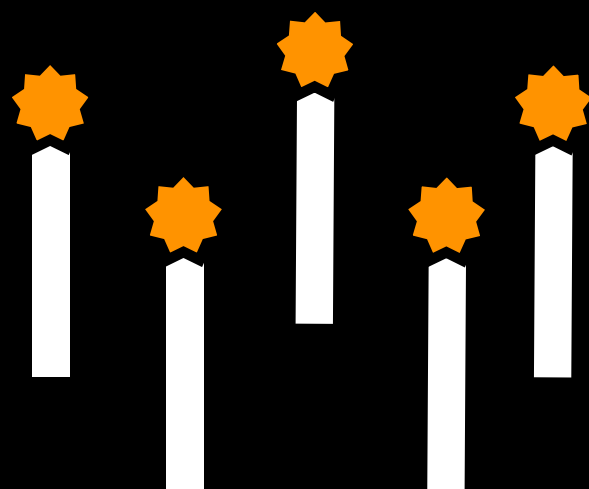
Storage

Databases

Services

+

Support





5 years young



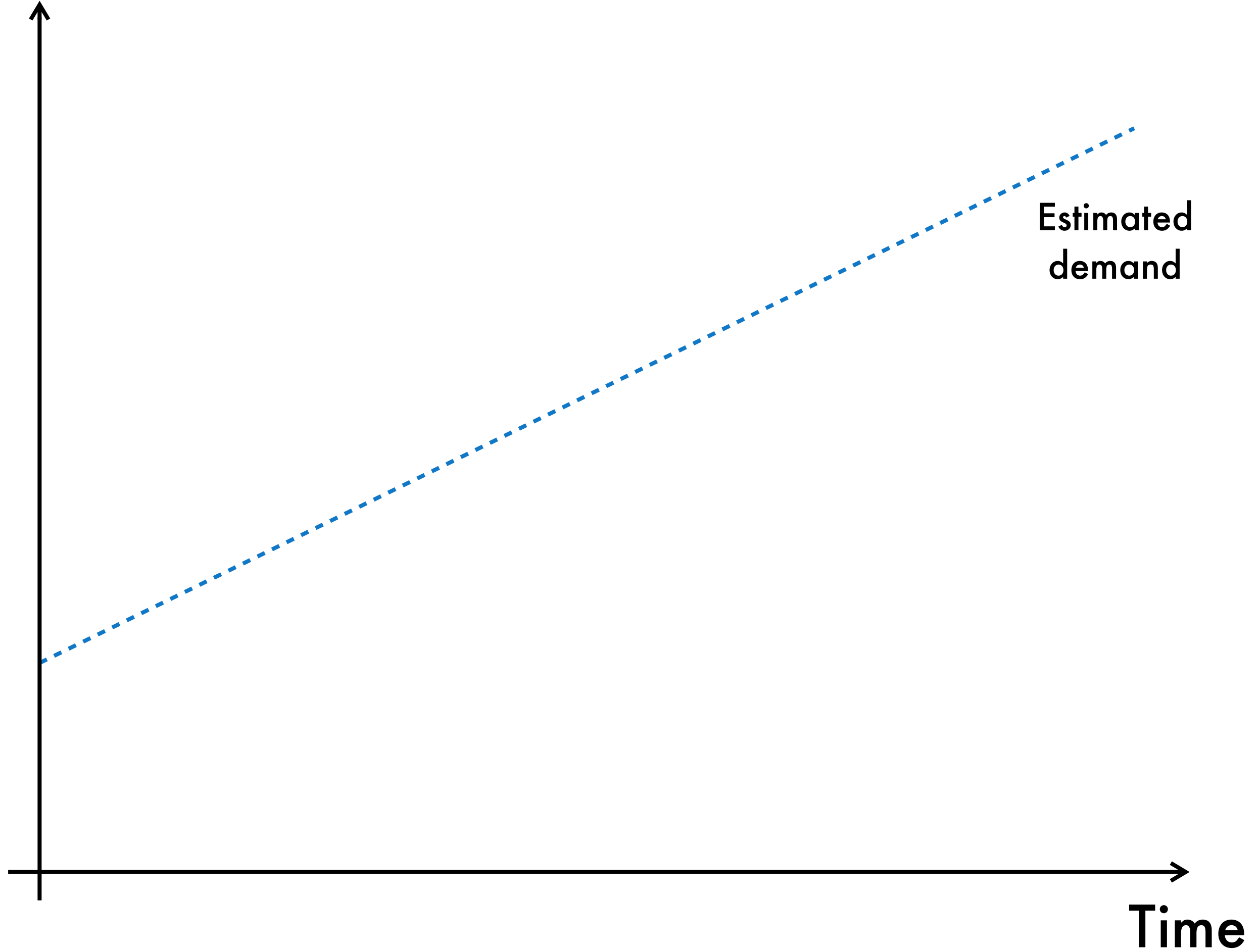
On demand

Pay as you go

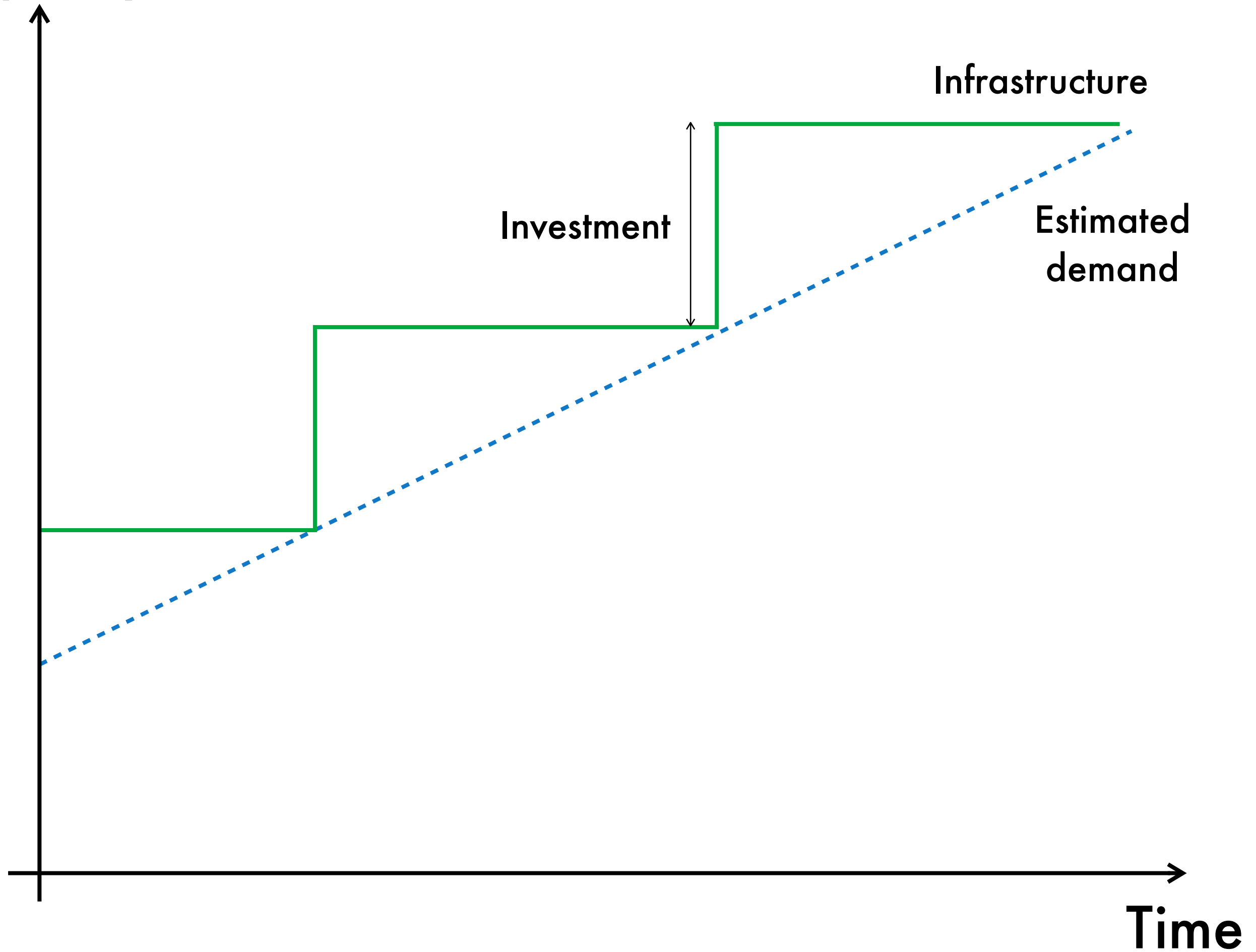
Pay for what you use

Elastic

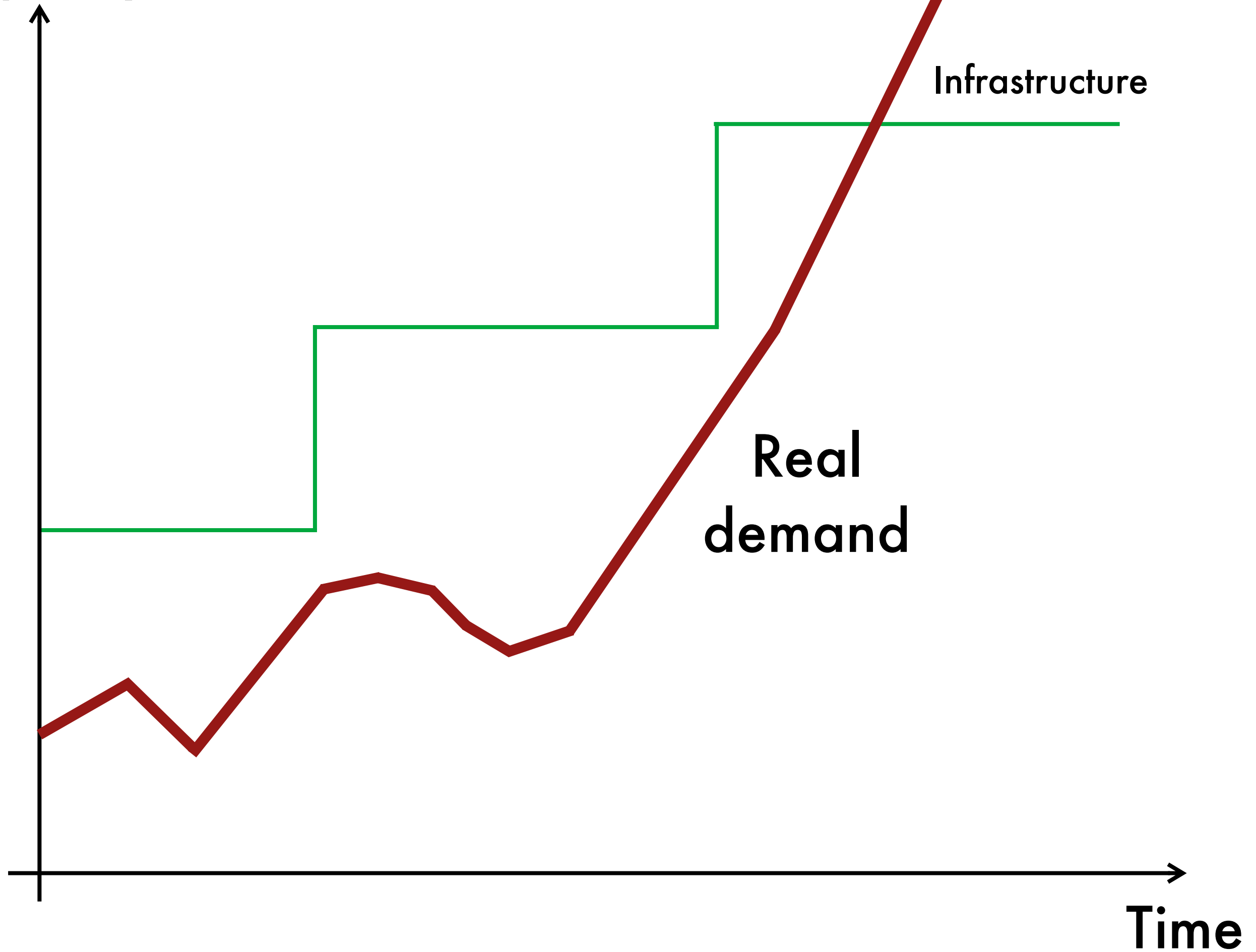
Capacity



Capacity



Capacity

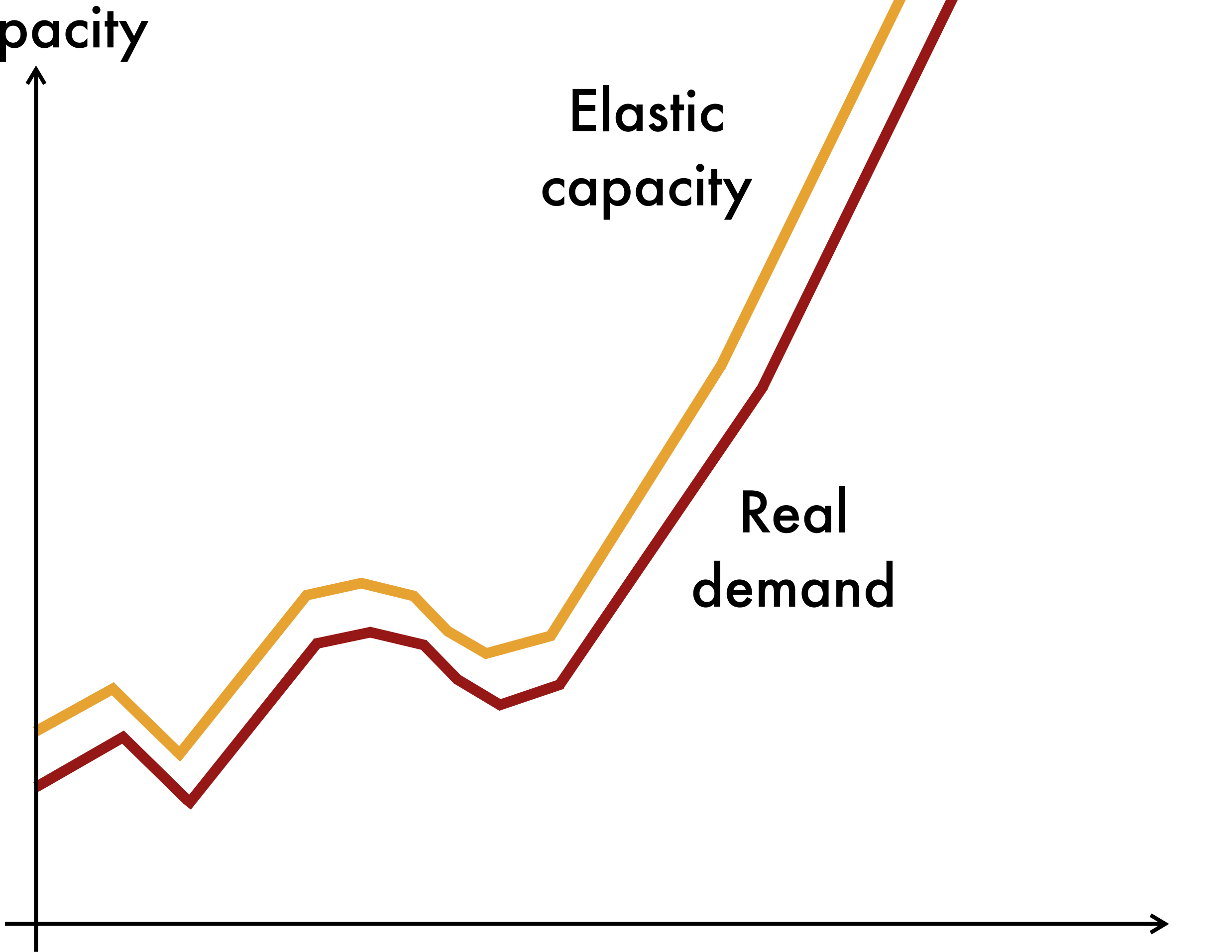


Capacity

**Elastic
capacity**

**Real
demand**

Time



Flexible

API

Agility

Development
agility

Business agility

Focus on your stuff

Idea



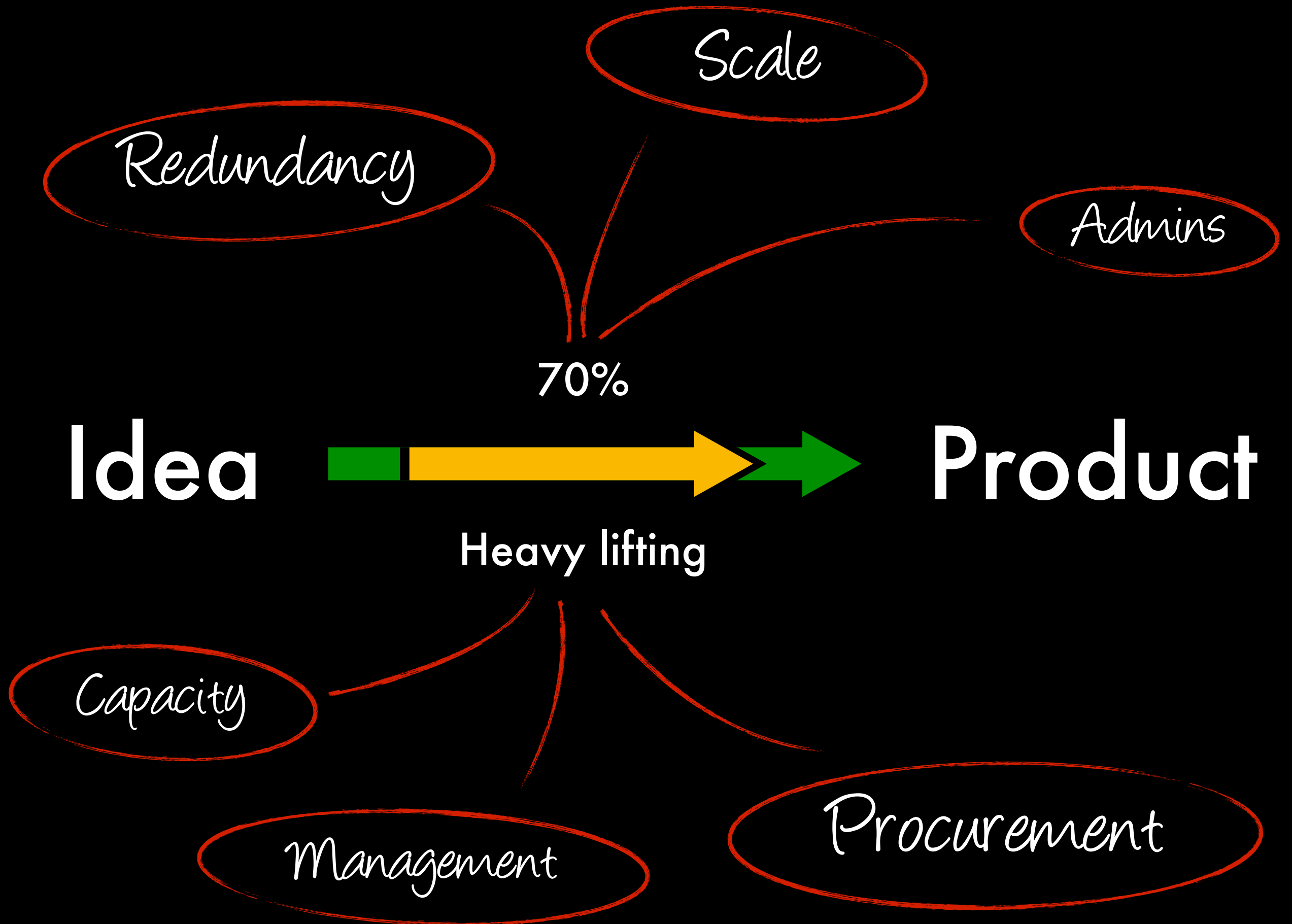
Product

Idea

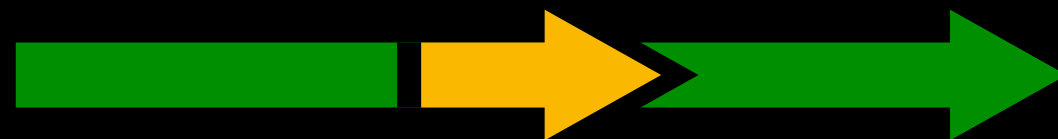


Heavy lifting

Product



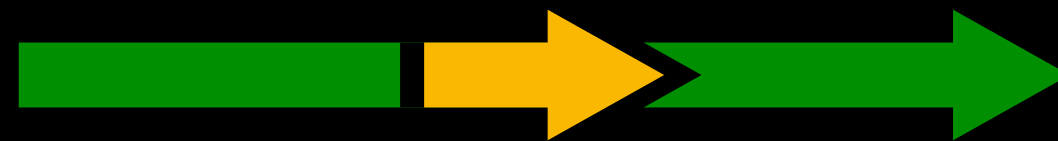
Idea



Infrastructure

Product

Idea



Product

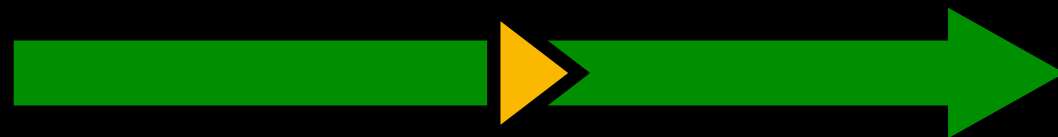
Maintenance

Monitoring

Logging

New releases
& environment

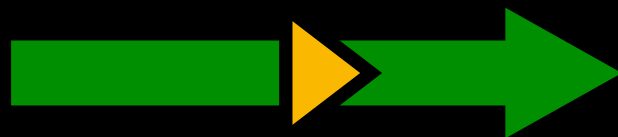
Idea



AWS

Product

Idea



AWS

Product

Why?

How?

On board

Strategy

Migration

On board

Dev/test

Production





2

Cloud by Example

CloudFormation

aws.amazon.com/cloudformation

Define a full
infrastructure
stack

Template

EC2

Auto-scaling

RDS

SNS

SimpleDB

SQS

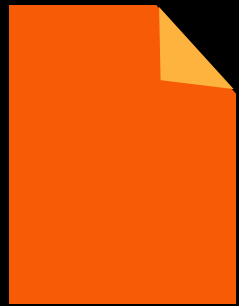
Resources

Elastic Beanstalk

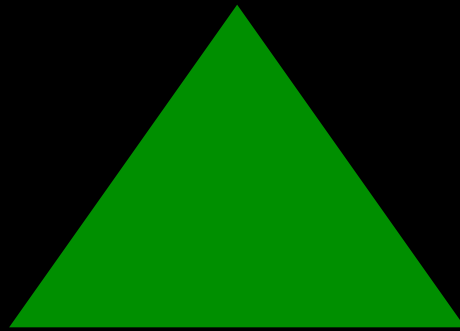
CloudWatch

Security groups

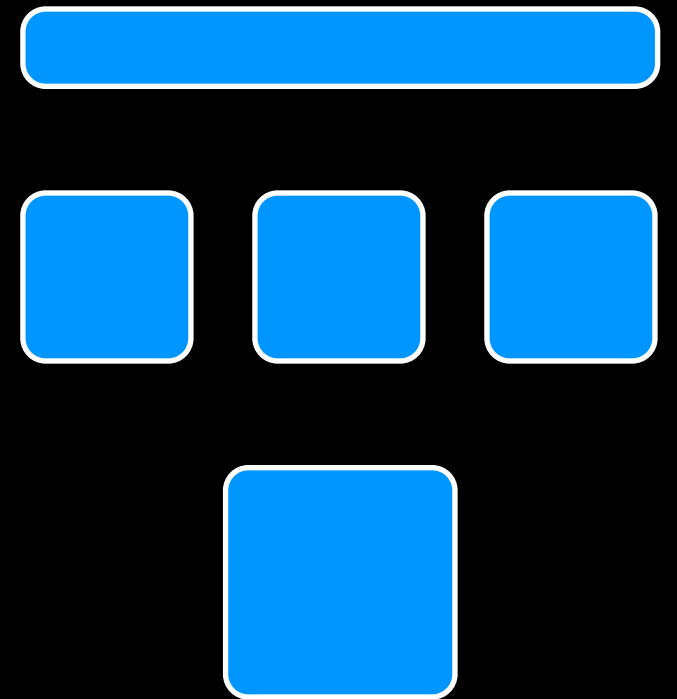
Tags



Template



CloudFormation



Provisioned
resources

Complete
definition

Atomic

Idempotent

Anatomy of a template

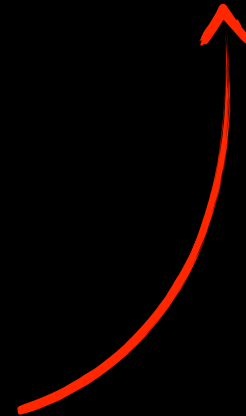
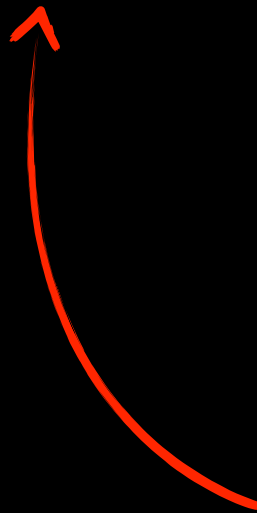
JSON

Plain text

Perfect for
version control

JSON

Validate-able



Declarative language

```

{
  "AWSTemplateFormatVersion" : "2010-09-09",

  "Description" : "Create an EC2 instances",

  "Parameters" : {
    "KeyName" : {
      "Description" : "Name of an existing EC2 KeyPair to enable SSH access to the instance",
      "Type" : "String"
    }
  },

  "Mappings" : {
    "RegionMap" : {
      "us-east-1" : {
        "AMI" : "ami-76f0061f"
      },
      "us-west-1" : {
        "AMI" : "ami-655a0a20"
      },
      "eu-west-1" : {
        "AMI" : "ami-7fd4e10b"
      },
      "ap-southeast-1" : {
        "AMI" : "ami-72621c20"
      },
      "ap-northeast-1" : {
        "AMI" : "ami-8e08a38f"
      }
    }
  },

  "Resources" : {
    "Ec2Instance" : {
      "Type" : "AWS::EC2::Instance",
      "Properties" : {
        "KeyName" : { "Ref" : "KeyName" },
        "ImageId" : { "Fn::FindInMap" : [ "RegionMap", { "Ref" : "AWS::Region" }, "AMI" ] },
        "UserData" : { "Fn::Base64" : "80" }
      }
    }
  },

  "Outputs" : {
    "InstanceId" : {
      "Description" : "InstanceId of the newly created EC2 instance",
      "Value" : { "Ref" : "Ec2Instance" }
    },
    "AZ" : {
      "Description" : "Availability Zone of the newly created EC2 instance",
      "Value" : { "Fn::GetAtt" : [ "Ec2Instance", "AvailabilityZone" ] }
    },
    "PublicIP" : {
      "Description" : "Public IP address of the newly created EC2 instance",
      "Value" : { "Fn::GetAtt" : [ "Ec2Instance", "PublicIp" ] }
    }
  }
}

```

```

{
  "AWSTemplateFormatVersion" : "2010-09-09",

  "Description" : "Create an EC2 instances",

  "Parameters" : {
    "KeyName" : {
      "Description" : "Name of an existing EC2 KeyPair to enable SSH access to the instance",
      "Type" : "String"
    }
  },

  "Mappings" : {
    "RegionMap" : {
      "us-east-1" : {
        "AMI" : "ami-76f0061f"
      },
      "us-west-1" : {
        "AMI" : "ami-655a0a20"
      },
      "eu-west-1" : {
        "AMI" : "ami-7fd4e10b"
      },
      "ap-southeast-1" : {
        "AMI" : "ami-72621c20"
      },
      "ap-northeast-1" : {
        "AMI" : "ami-8e08a38f"
      }
    }
  },

  "Resources" : {
    "Ec2Instance" : {
      "Type" : "AWS::EC2::Instance",
      "Properties" : {
        "KeyName" : { "Ref" : "KeyName" },
        "ImageId" : { "Fn::FindInMap" : [ "RegionMap", { "Ref" : "AWS::Region" }, "AMI" ] },
        "UserData" : { "Fn::Base64" : "80" }
      }
    }
  },

  "Outputs" : {
    "InstanceId" : {
      "Description" : "InstanceId of the newly created EC2 instance",
      "Value" : { "Ref" : "Ec2Instance" }
    },
    "AZ" : {
      "Description" : "Availability Zone of the newly created EC2 instance",
      "Value" : { "Fn::GetAtt" : [ "Ec2Instance", "AvailabilityZone" ] }
    },
    "PublicIP" : {
      "Description" : "Public IP address of the newly created EC2 instance",
      "Value" : { "Fn::GetAtt" : [ "Ec2Instance", "PublicIp" ] }
    }
  }
}

```

Headers
Parameters

Mappings

Resources

Outputs

Parameters

Provision-time specification

Command line options

```
"Parameters" : {  
  "KeyName" : {  
    "Description" : "Name of an existing  
    EC2 KeyPair to enable SSH access to  
    the instance",  
    "Type" : "String"  
  }  
},
```


Mappings

Conditionals

Case statements

```
"Mappings" : {  
  "RegionMap" : {  
    "us-east-1" : {  
      "AMI" : "ami-76f0061f"  
    },  
    "us-west-1" : {  
      "AMI" : "ami-655a0a20"  
    },  
    "eu-west-1" : {  
      "AMI" : "ami-7fd4e10b"  
    },  
    "ap-southeast-1" : {  
      "AMI" : "ami-72621c20"  
    },  
    "ap-northeast-1" : {  
      "AMI" : "ami-8e08a38f"  
    }  
  }  
},
```

```
"Mappings": {  
  "AWSInstanceType2Arch" : {  
    "t1.micro"      : { "Arch" : "64" },  
    "m1.large"      : { "Arch" : "64" },  
    "m1.xlarge"      : { "Arch" : "64" },  
    "m2.xlarge"      : { "Arch" : "64" },  
    "m2.2xlarge"     : { "Arch" : "64" },  
    "m2.4xlarge"     : { "Arch" : "64" },  
    "c1.xlarge"      : { "Arch" : "64" },  
    "cc1.4xlarge"    : { "Arch" : "64" }  
  },  
}
```


Resources

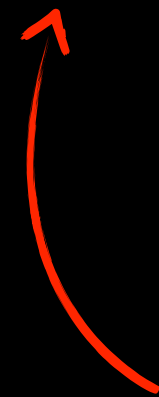
```
"Resources" : {  
  "Ec2Instance" : {  
    "Type" : "AWS::EC2::Instance",  
    "Properties" : {  
      "KeyName" : { "Ref" : "KeyName" },  
      "ImageId" : { "Fn::FindInMap" :  
[ "RegionMap", { "Ref" : "AWS::Region" },  
"AMI" ] },  
      "UserData" : { "Fn::Base64" : "80" }  
    }  
  }  
}
```

```
"Resources" : {  
  "Ec2Instance" : {  
    "Type" : "AWS::EC2::Instance",  
    "Properties" : {  
      "KeyName" : { "Ref" : "KeyName" },  
      "ImageId" : { "Fn::FindInMap" :  
[ "RegionMap", { "Ref" : "AWS::Region" },  
"AMI" ] },  
      "UserData" : { "Fn::Base64" : "80" }  
    }  
  }  
}
```

```
"Resources" : {  
  "Ec2Instance" : {  
    "Type" : "AWS::EC2::Instance",  
    "Properties" : {  
      "KeyName" : { "Ref" : "KeyName" },  
      "ImageId" : { "Fn::FindInMap" :  
[ "RegionMap", { "Ref" : "AWS::Region" },  
"AMI" ] },  
      "UserData" : { "Fn::Base64" : "80" }  
    }  
  }  
}
```



```
"KeyName" : { "Ref" : "KeyName" },
```



Parameter reference

```
"ImageId" : {
```

```
  "Fn::FindInMap" :
```

```
  [ "RegionMap", { "Ref" : "AWS::Region" }, "AMI" ]
```

```
},
```

Map conditional

```
"ImageId" : {
```

```
  "Fn::FindInMap" :
```

```
    [ "RegionMap", { "Ref" : "AWS::Region" }, "AMI" ]
```

```
},
```

```
"ImageId" : {  
  
  "Fn::FindInMap" :  
    [ "RegionMap", { "Ref" : "AWS::Region" }, "AMI" ]  
  
},
```



Name of map

```
"ImageId" : {  
  
  "Fn::FindInMap" :  
    [ "RegionMap", { "Ref" : "AWS::Region" }, "AMI" ]  
  
},
```



Intrinsic property reference

Outputs

Returned values

```
"Outputs" : {
  "InstanceId" : {
    "Description" : "InstanceId of the newly created EC2 instance",
    "Value" : { "Ref" : "Ec2Instance" }
  },
  "AZ" : {
    "Description" : "Availability Zone of the newly created EC2 instance",
    "Value" : { "Fn::GetAtt" : [ "Ec2Instance", "AvailabilityZone" ] }
  },
  "PublicIP" : {
    "Description" : "Public IP address of the newly created EC2 instance",
    "Value" : { "Fn::GetAtt" : [ "Ec2Instance", "PublicIp" ] }
  }
}
```


Deliver via API

Validate via API

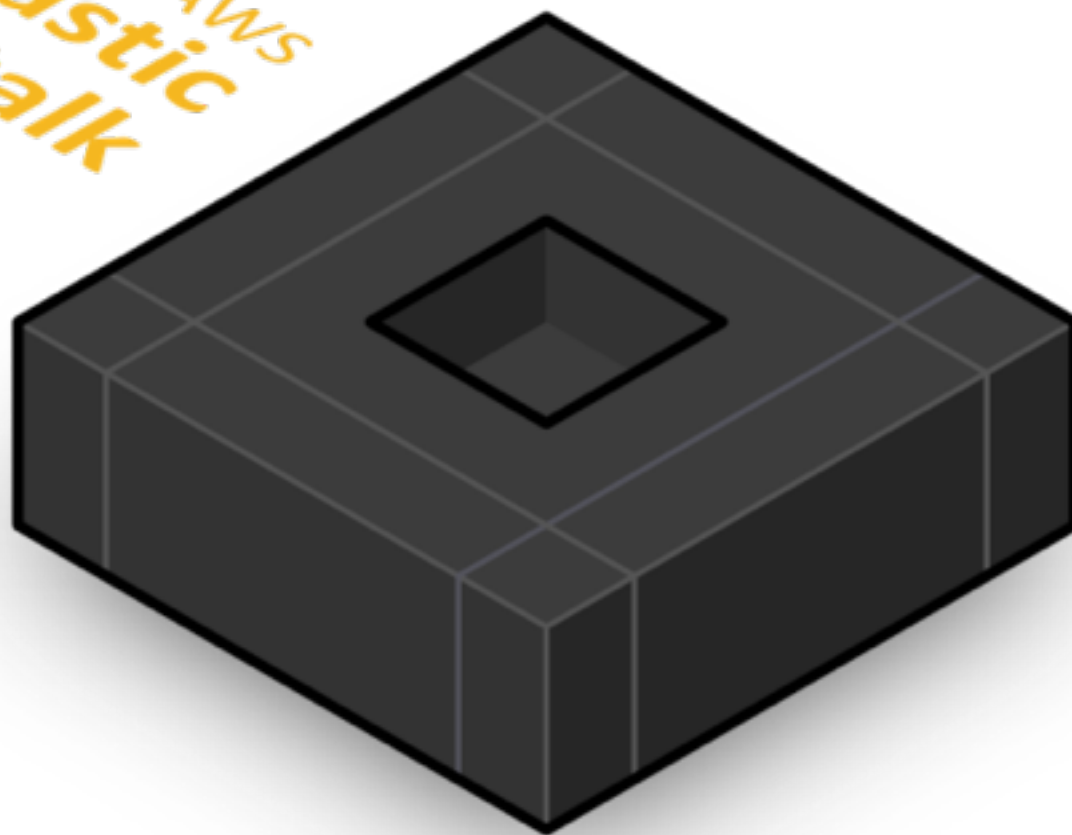
Deliver via S3

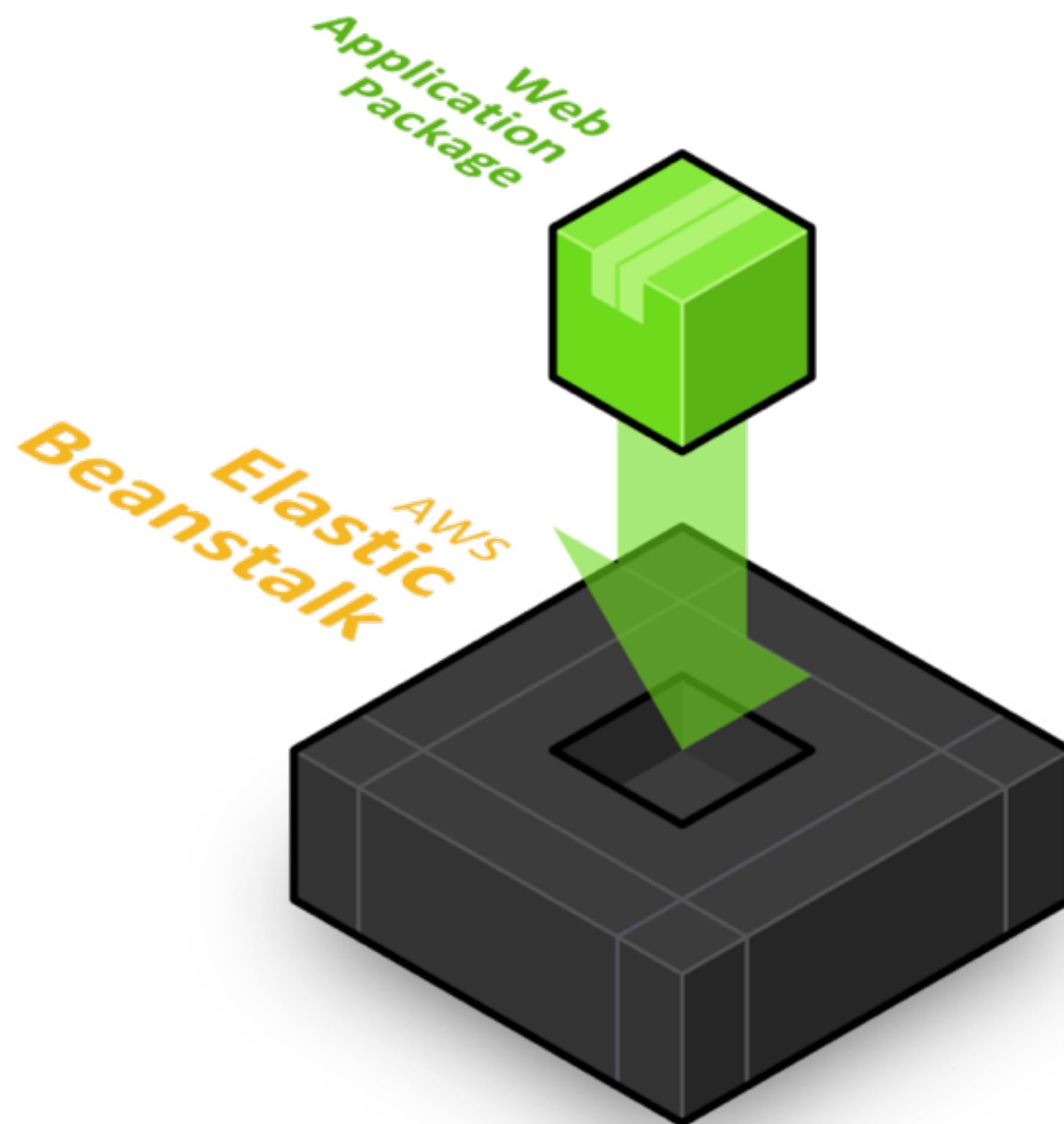
Growing library

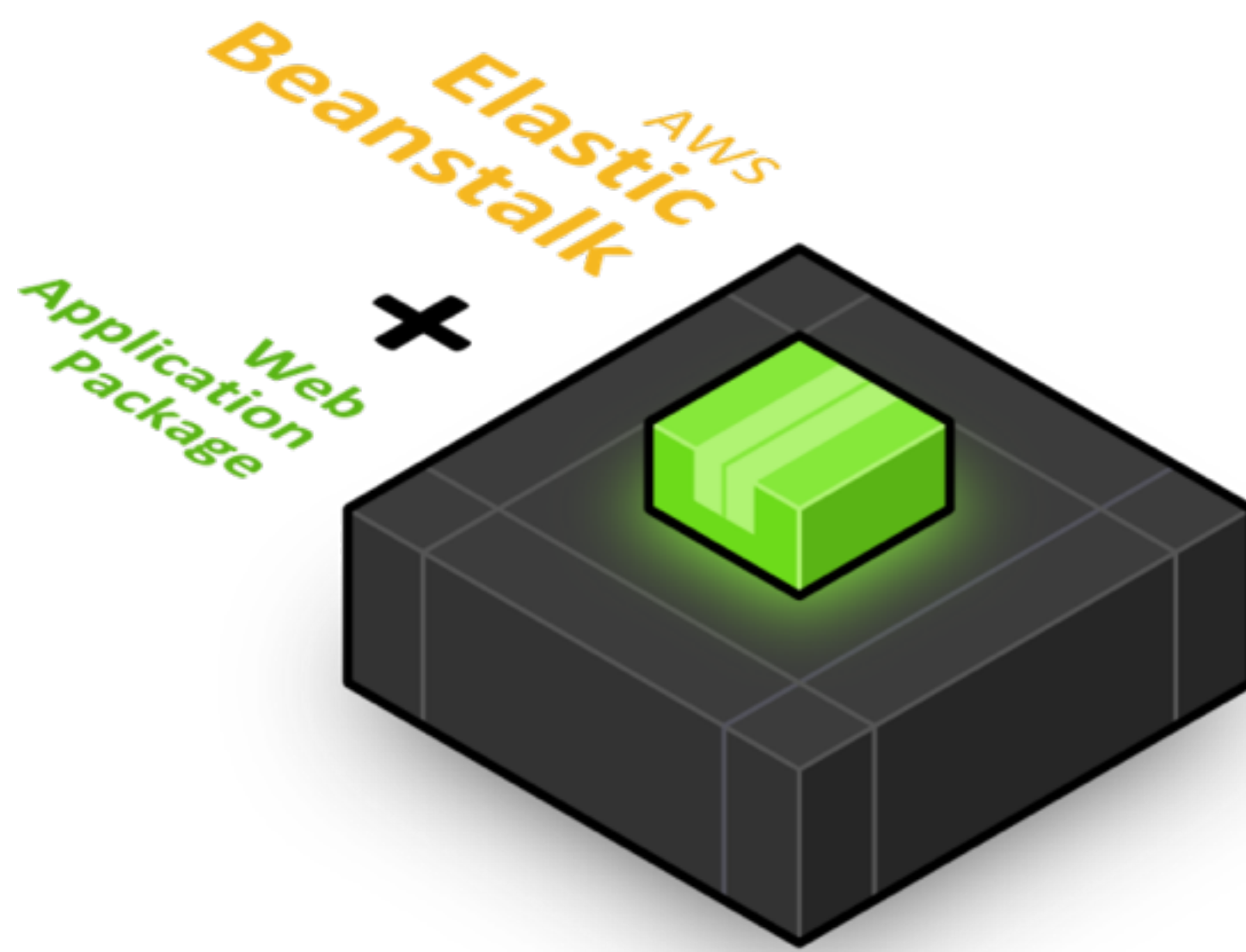
Elastic Beanstalk

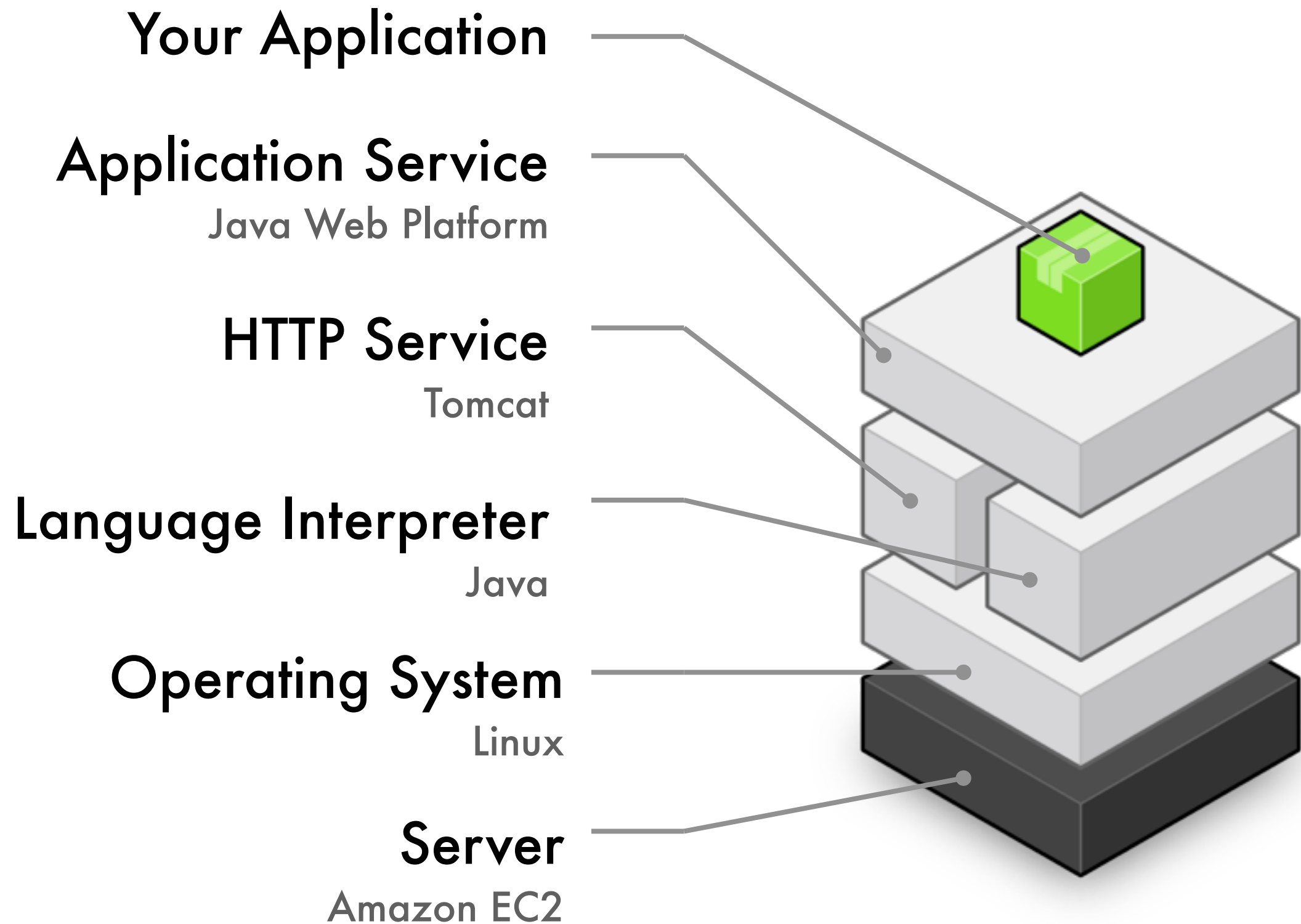
aws.amazon.com/elasticbeanstalk

**AWS
Elastic
Beanstalk**

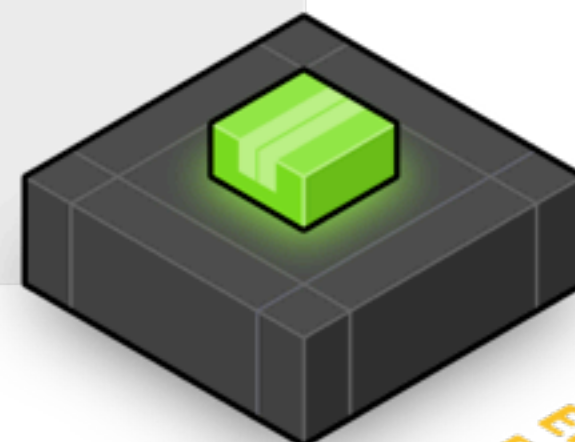




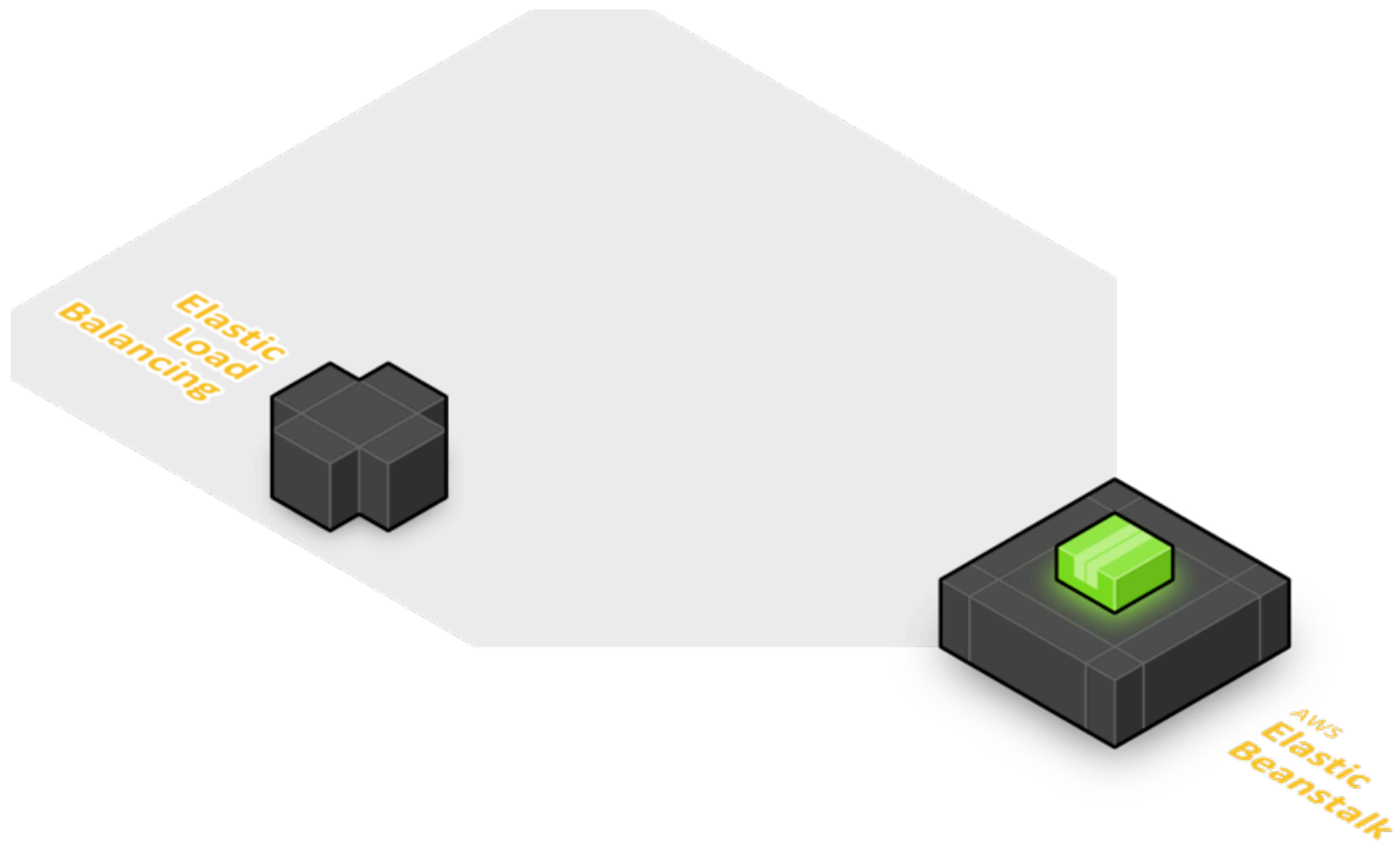


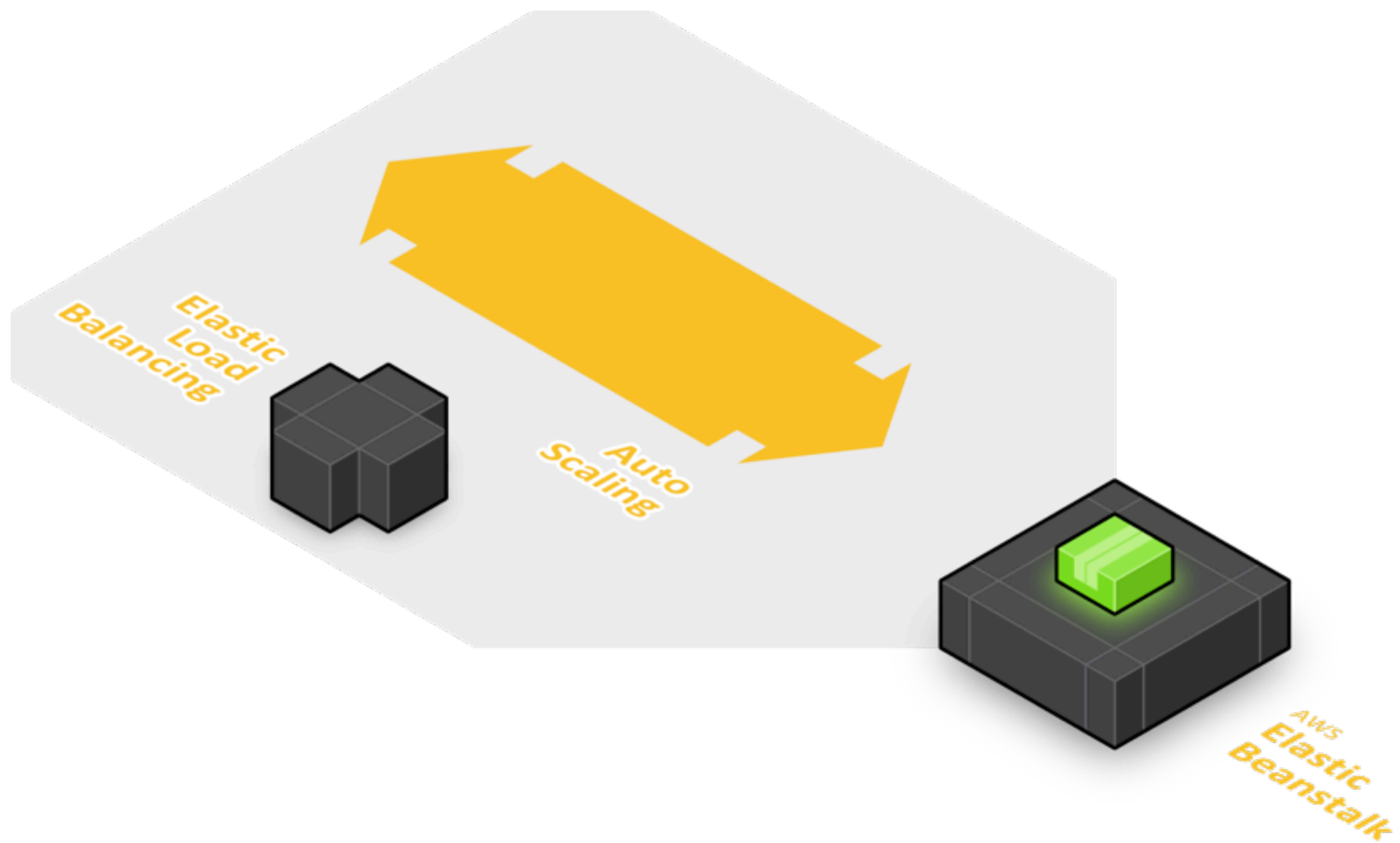


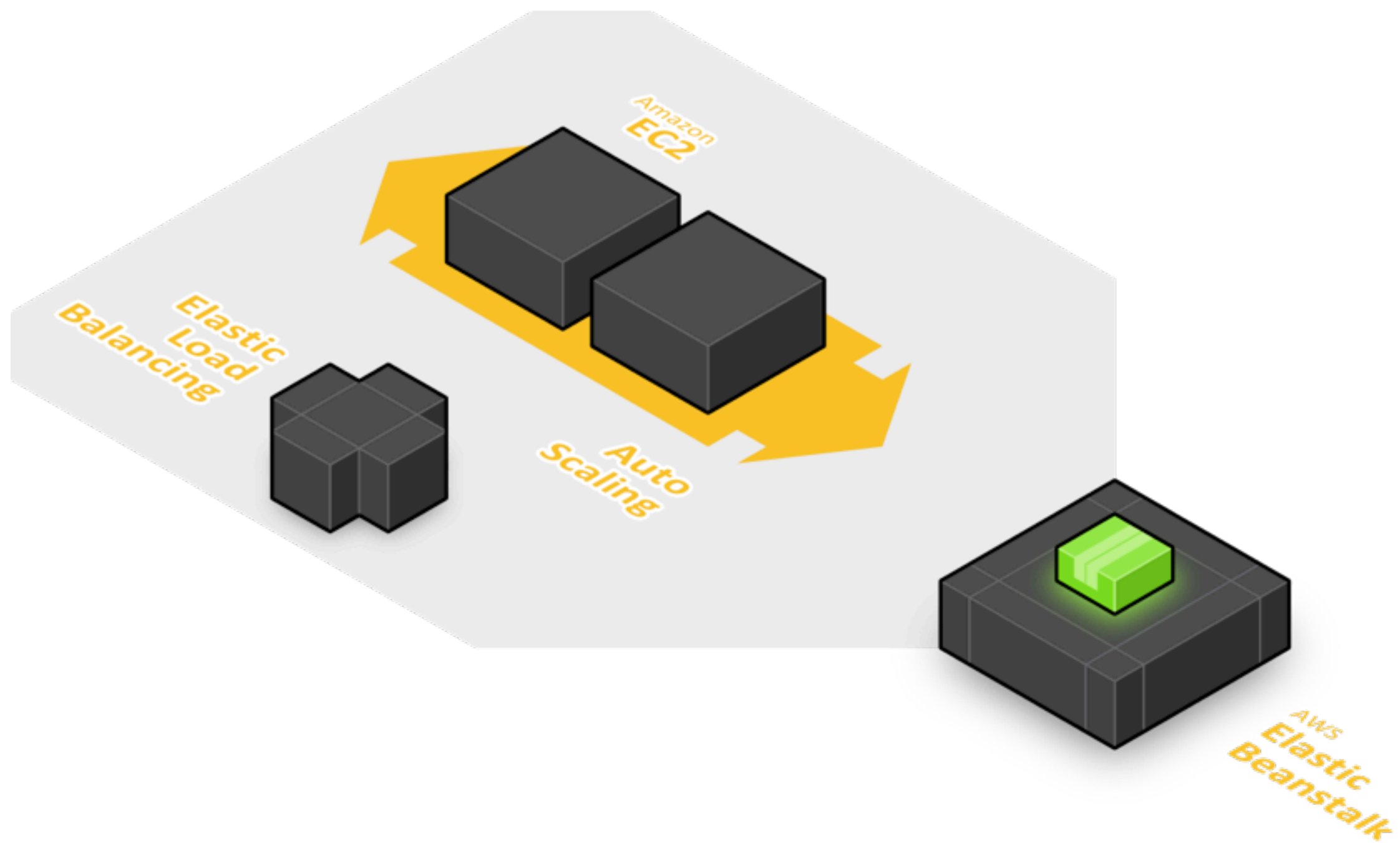
Upload WAR

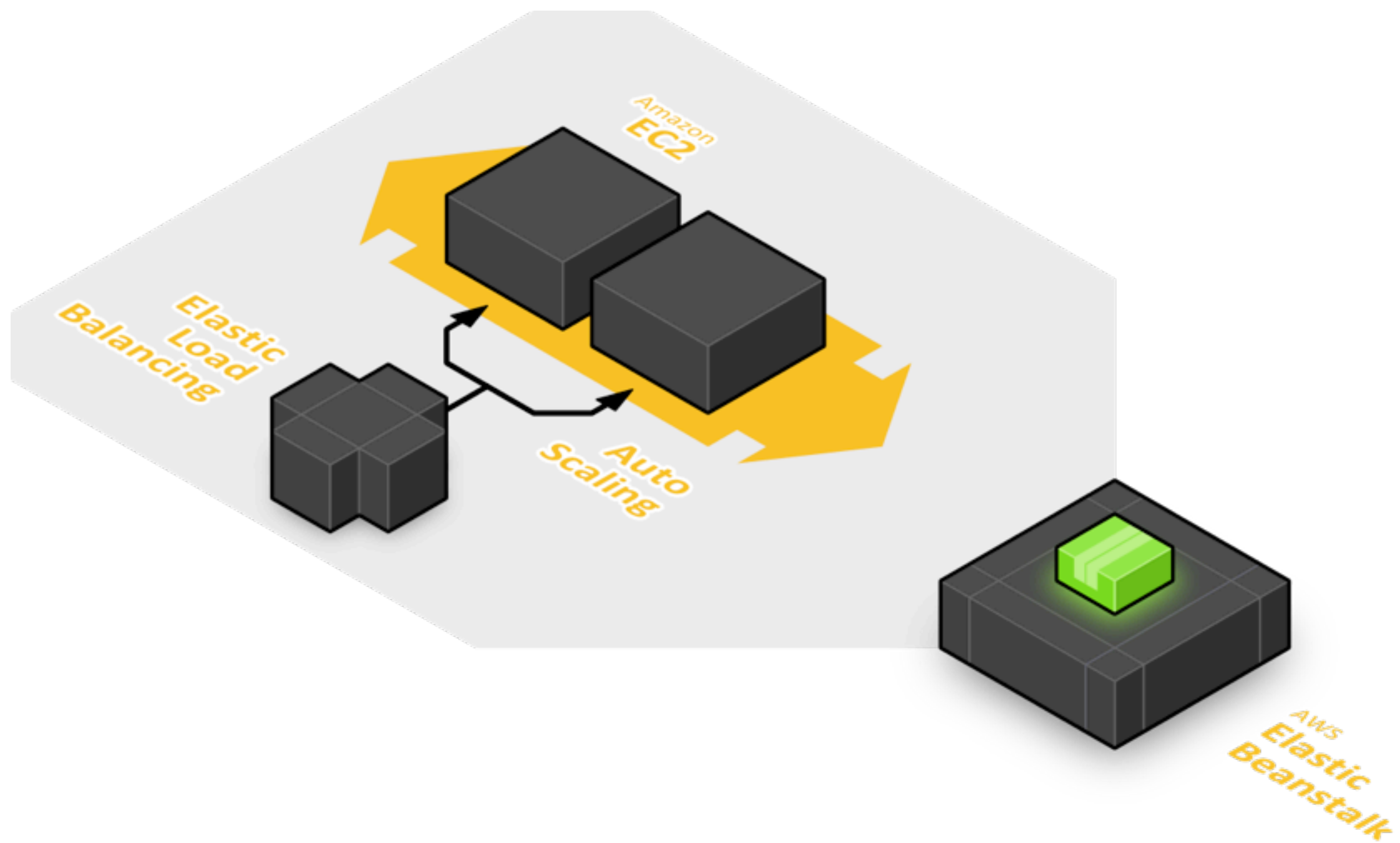


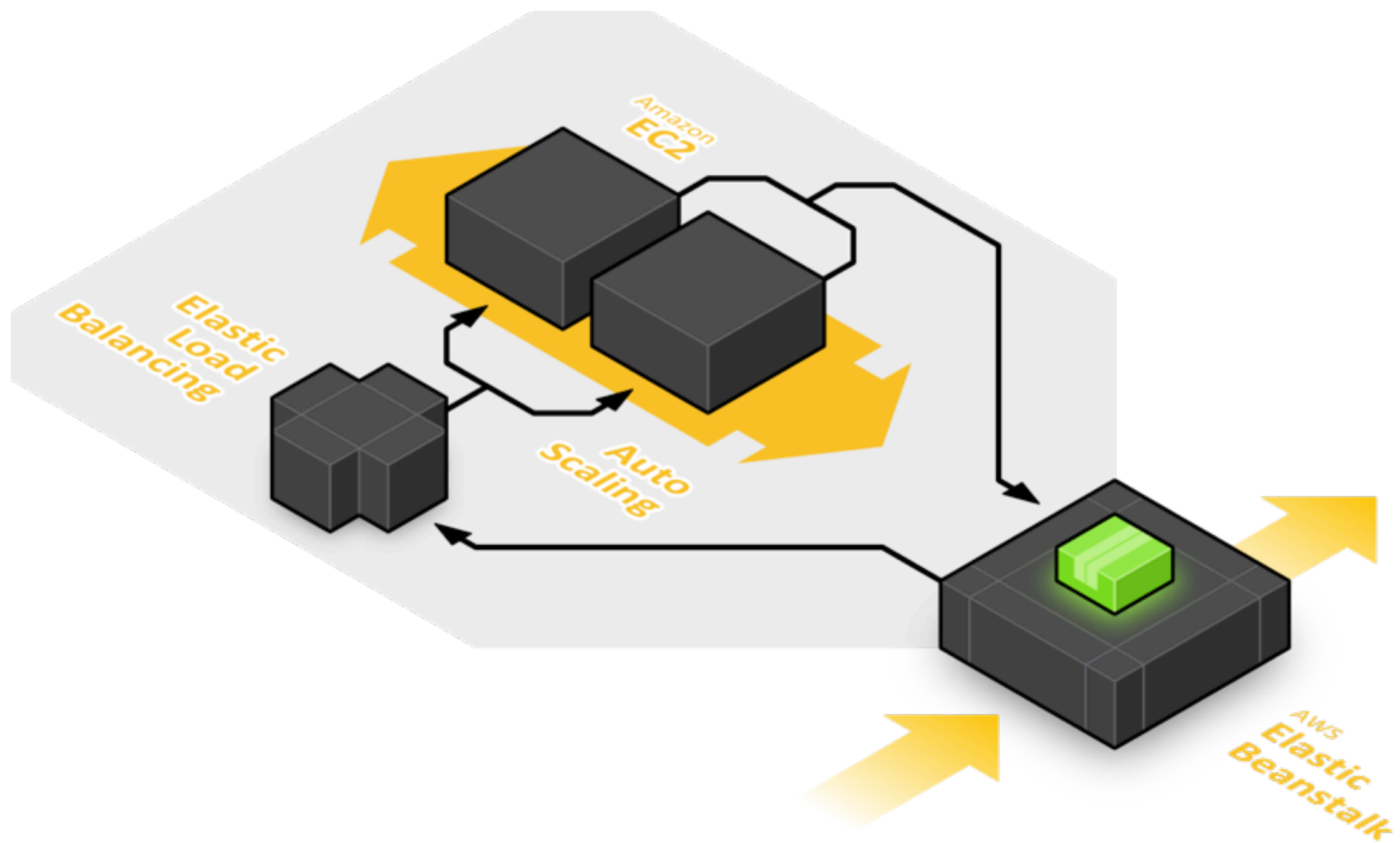
AWS
Elastic
Beanstalk

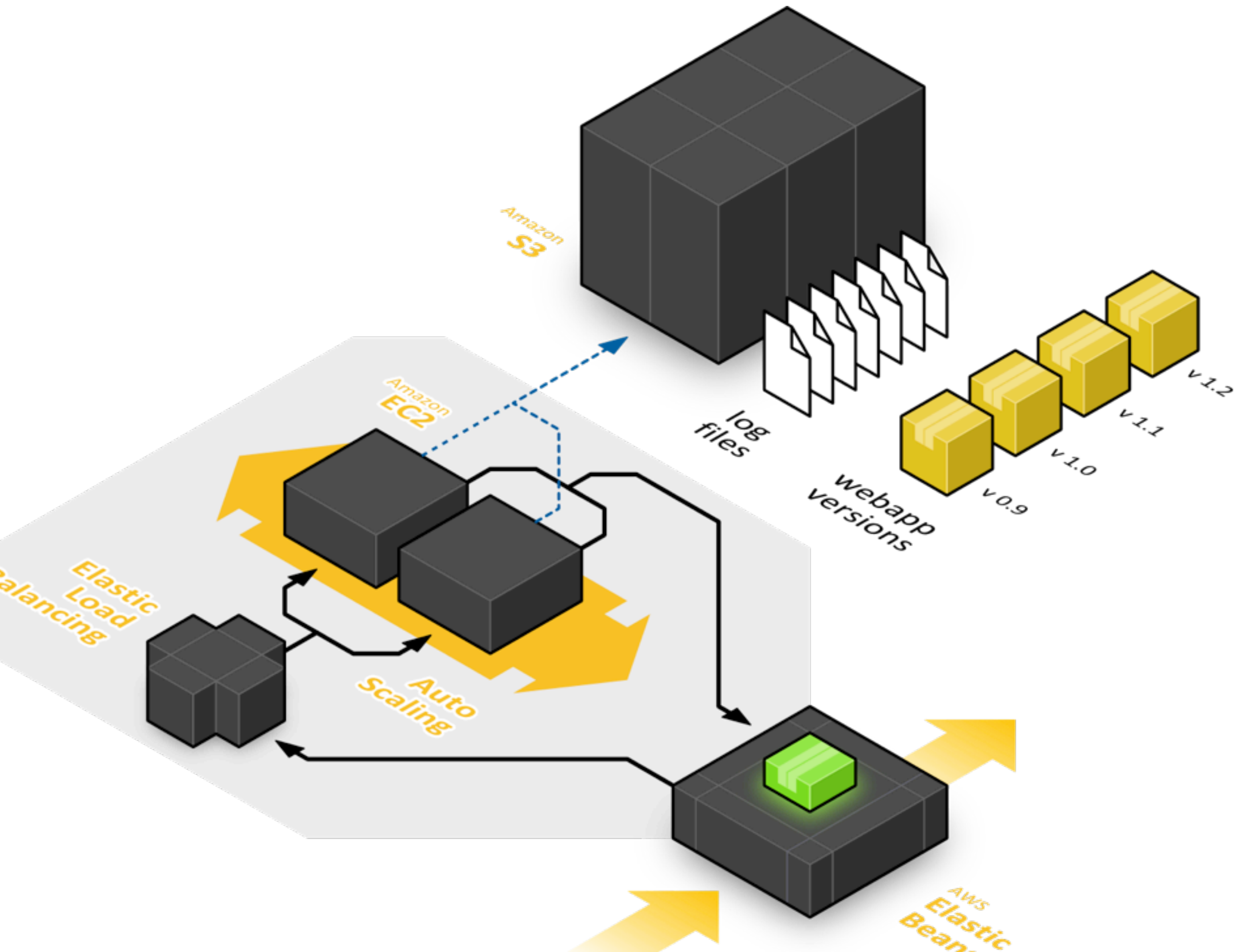




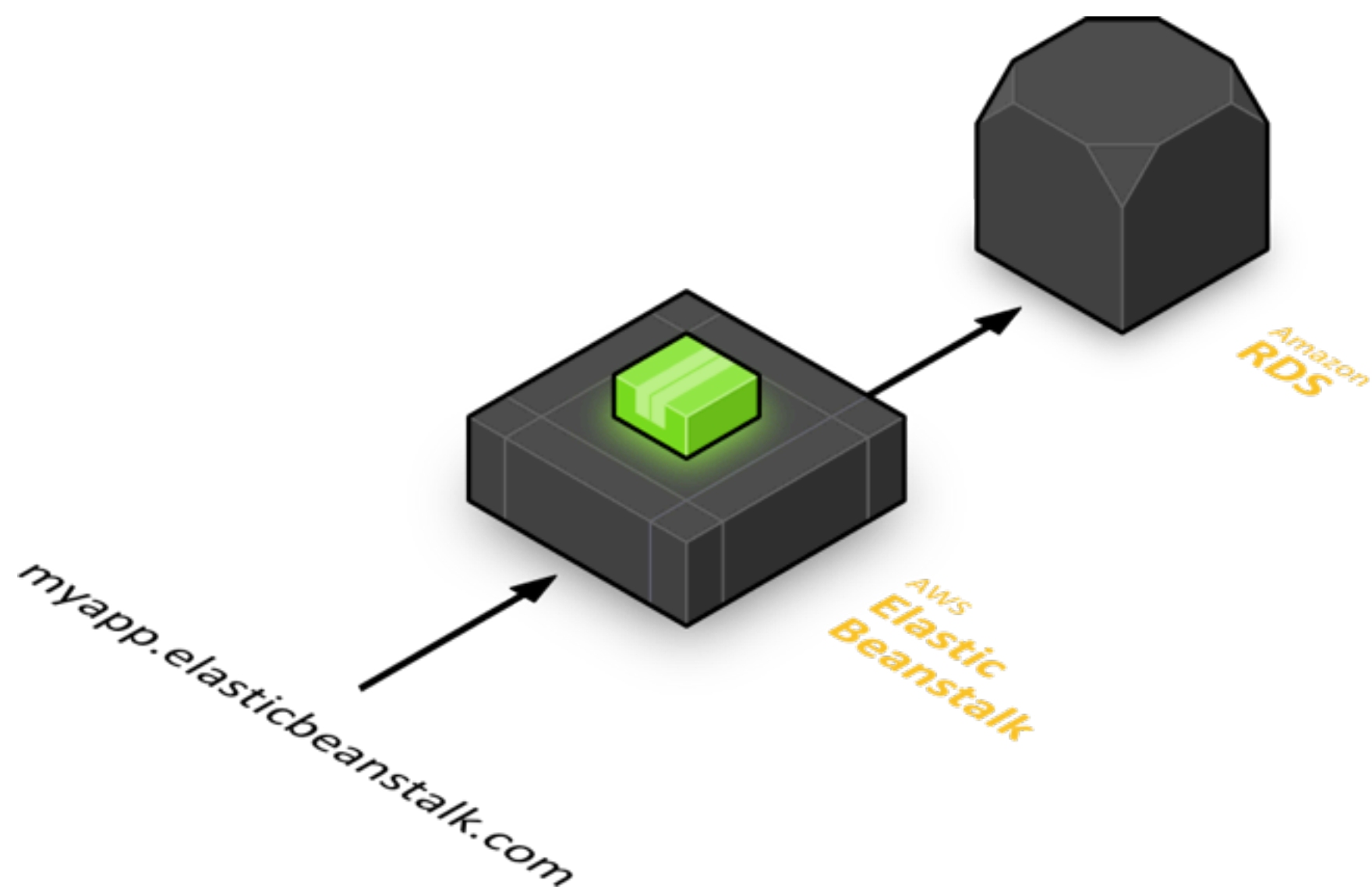


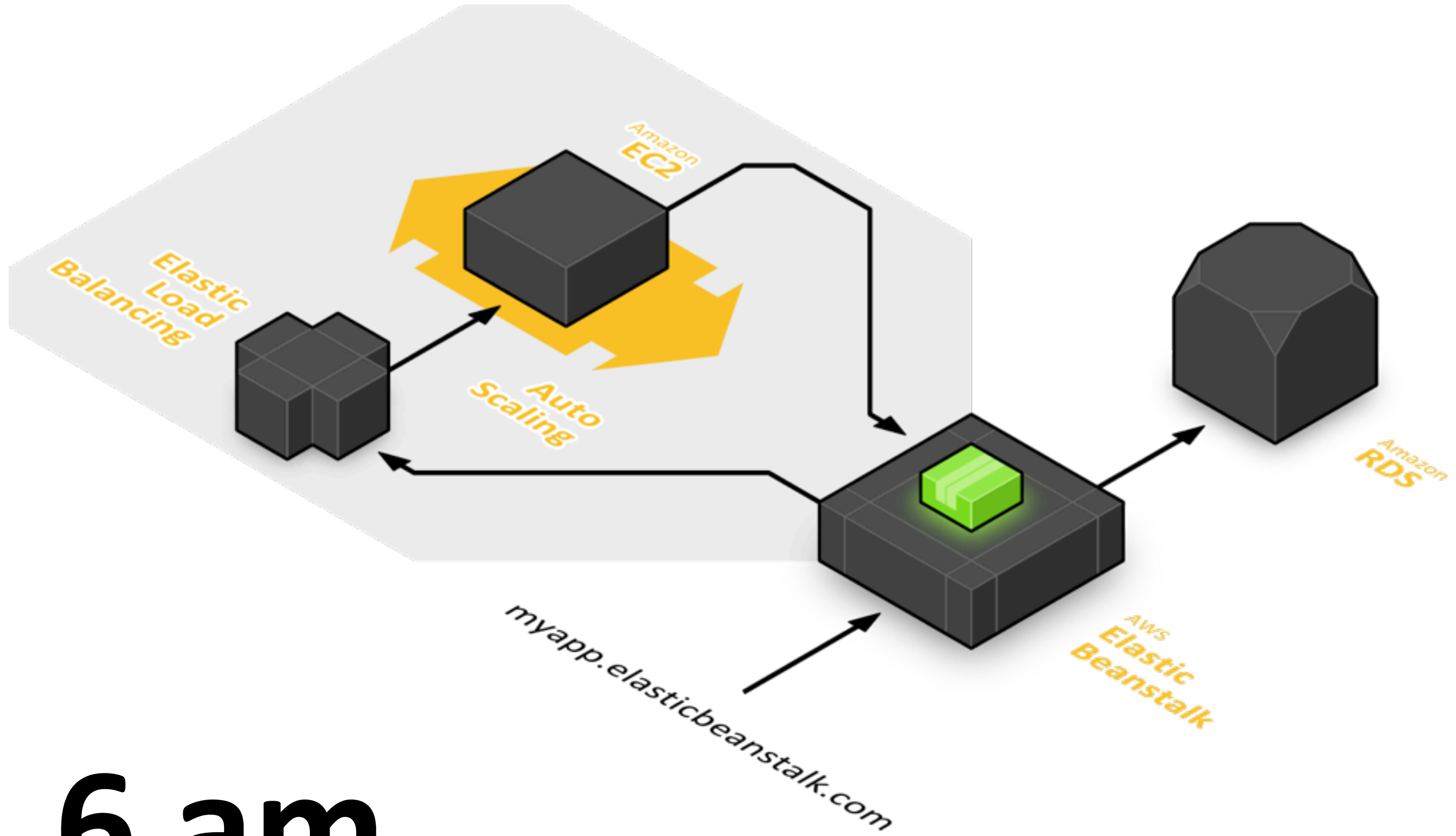




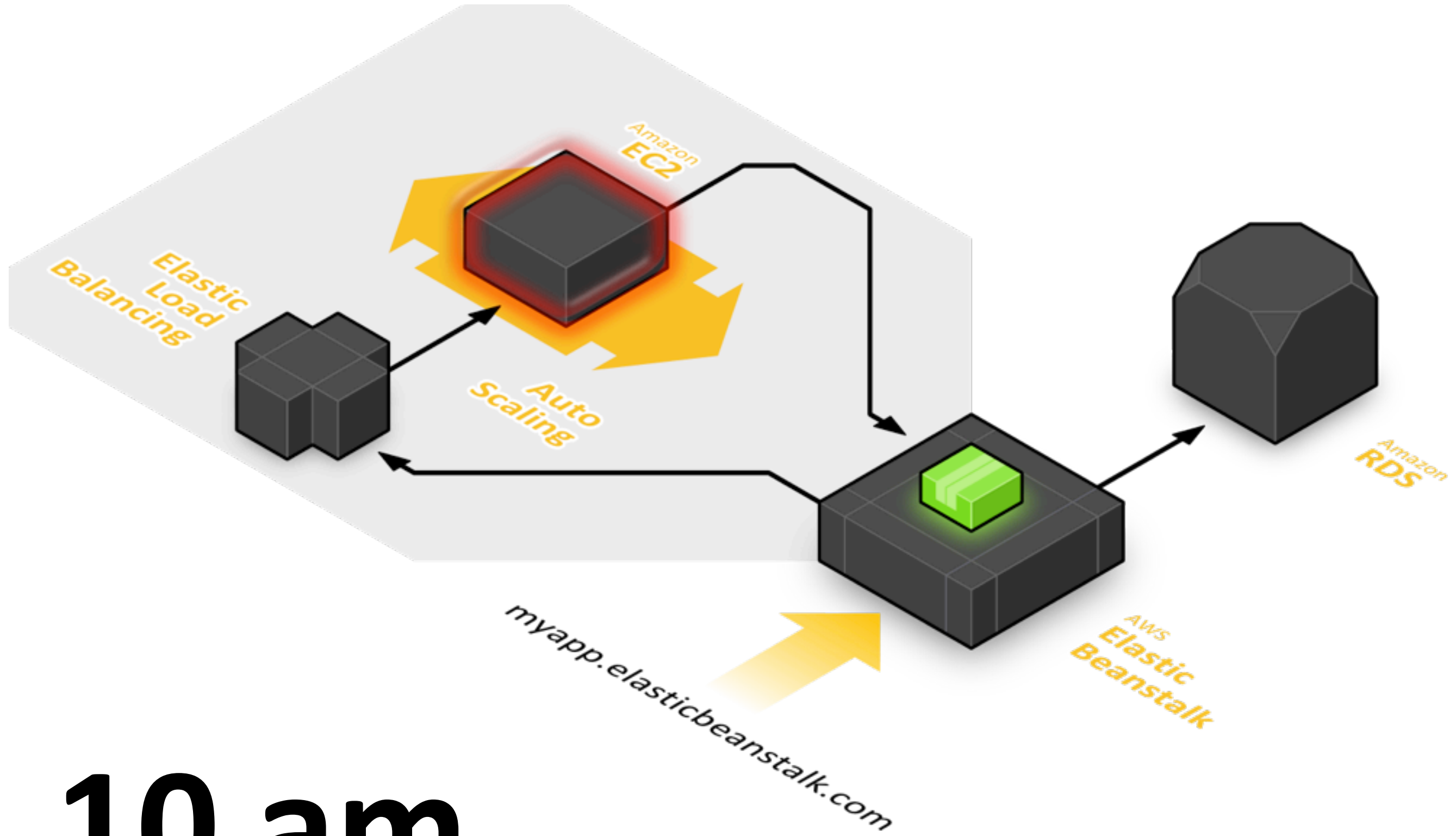


Auto-scaling

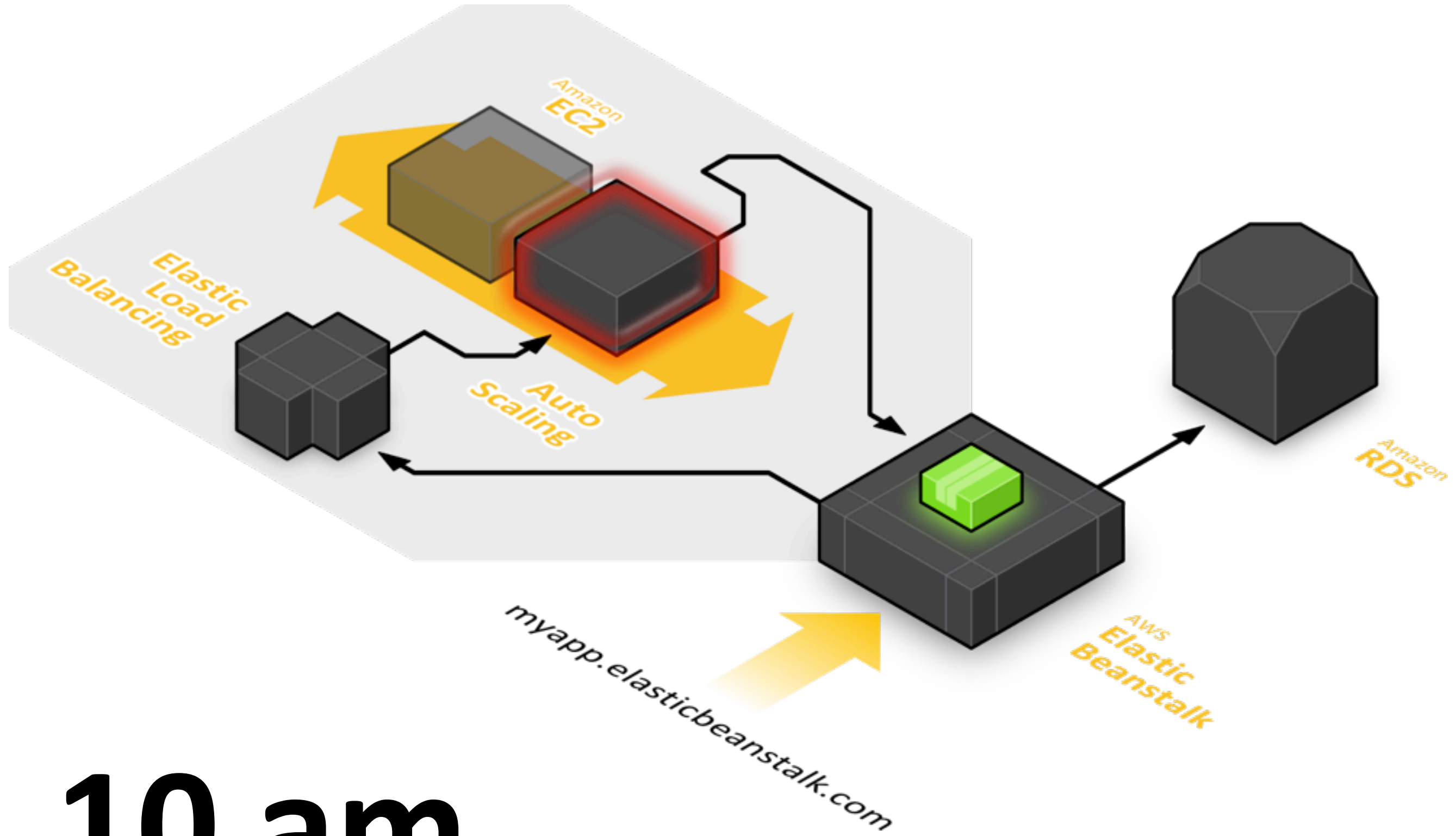




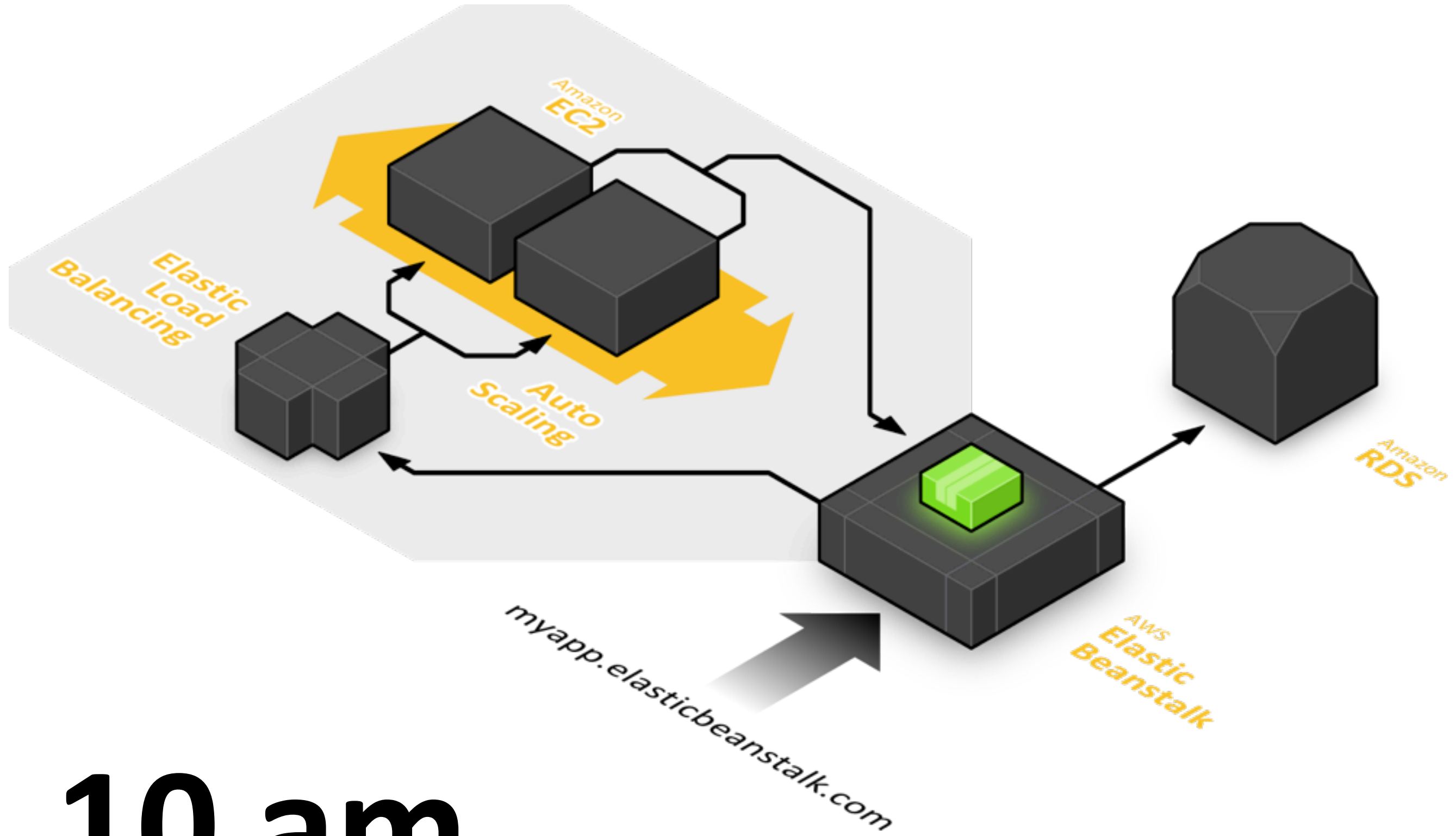
6 am



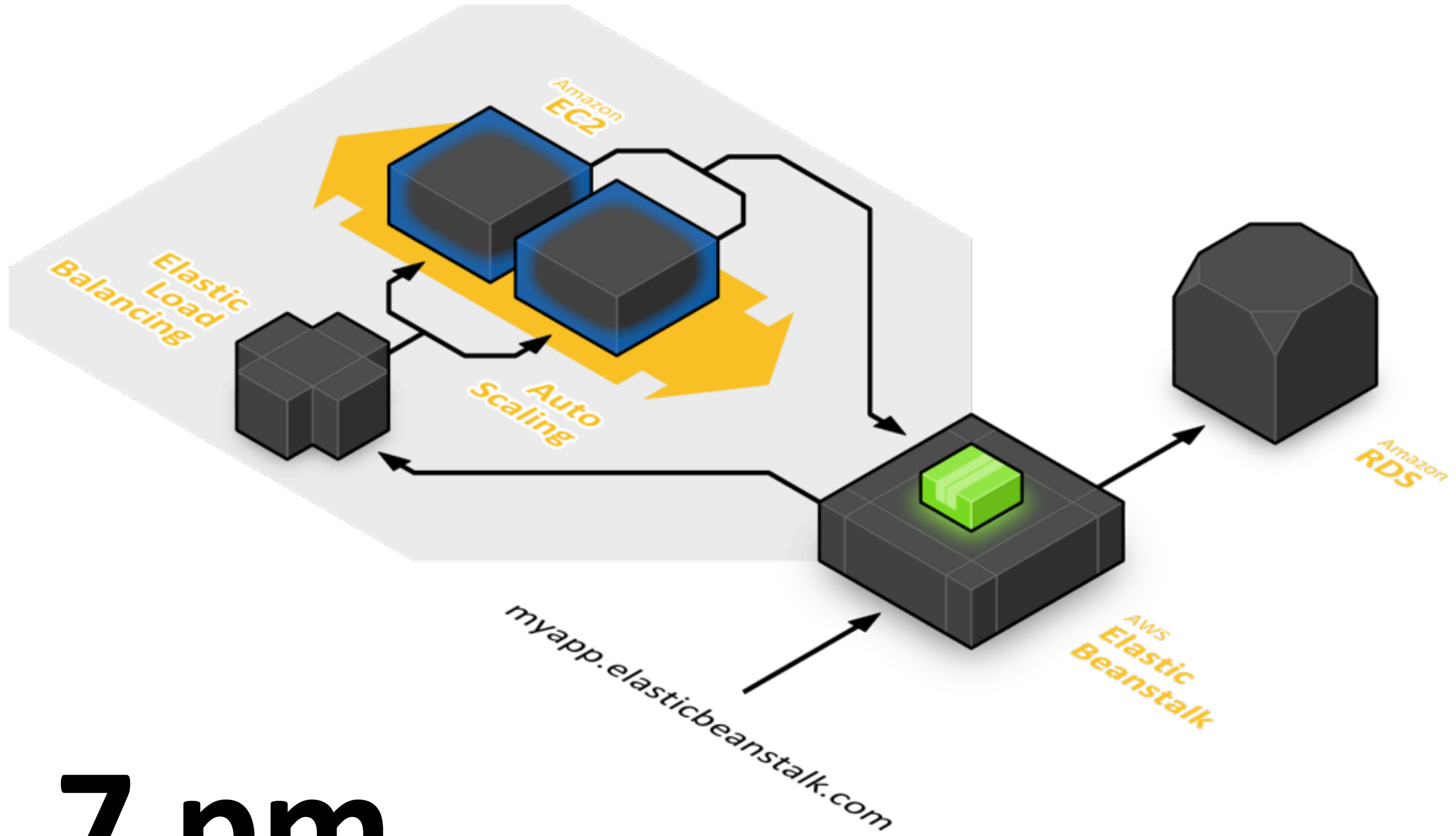
10 am



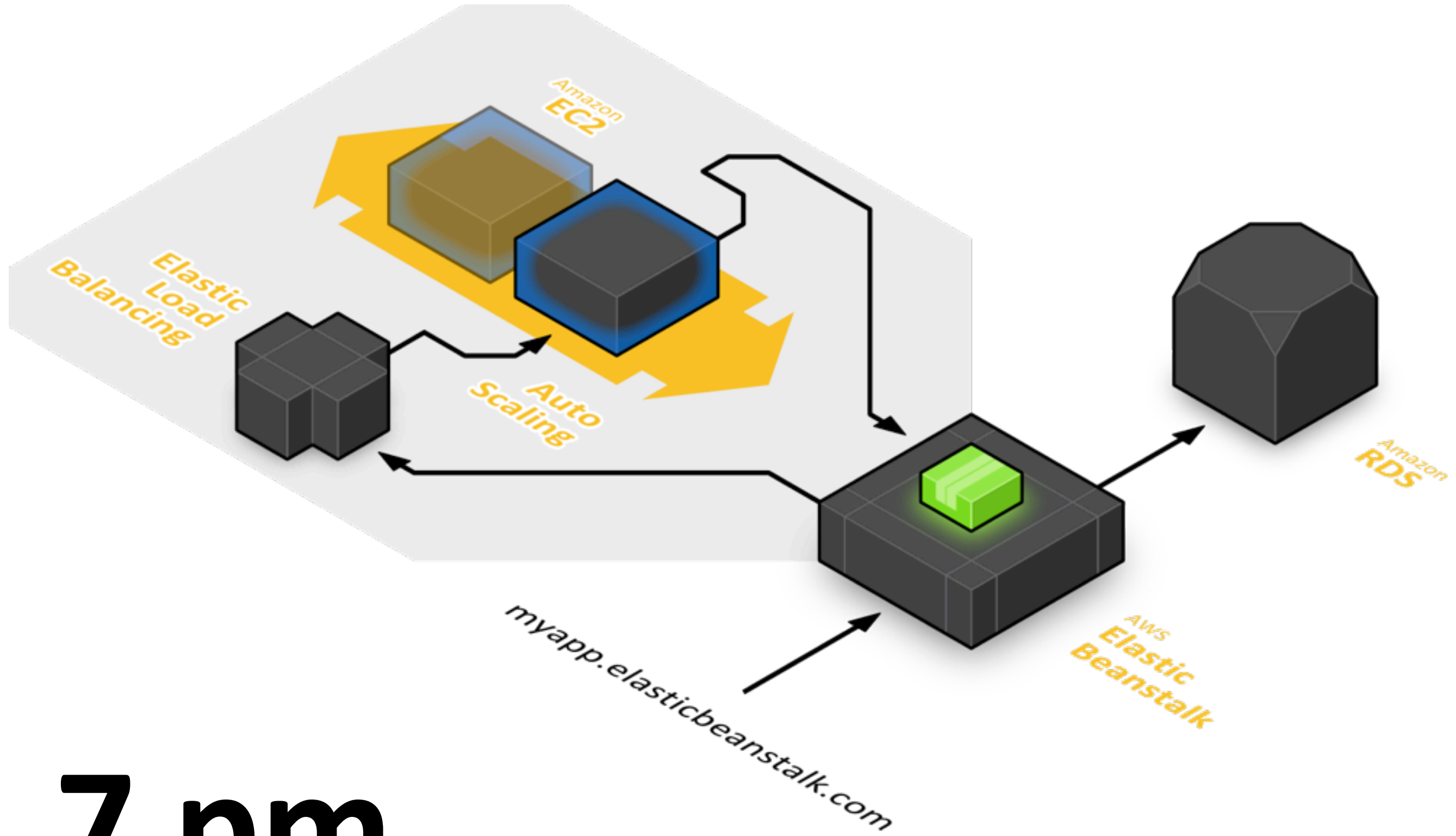
10 am



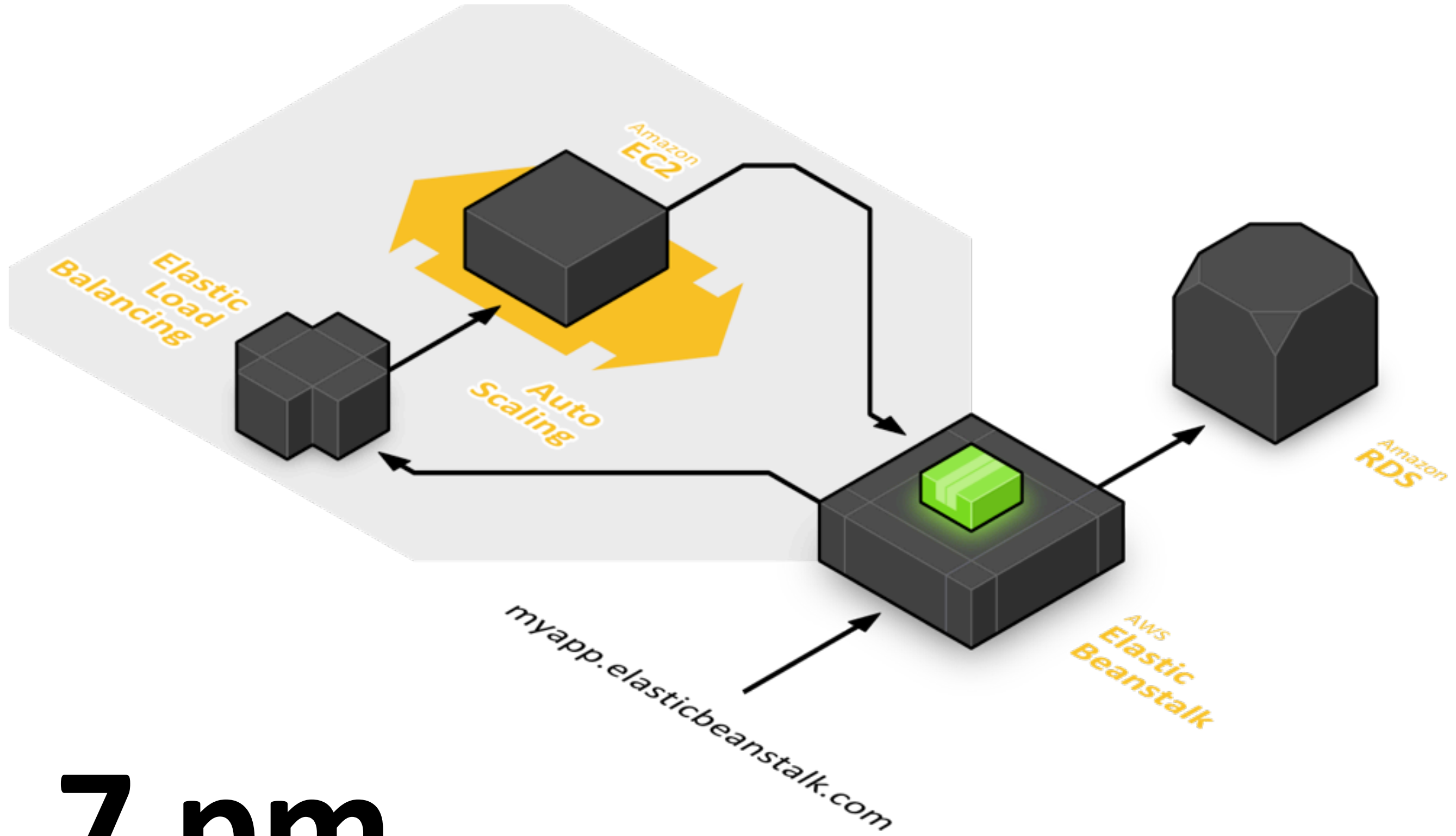
10 am



7 pm



7 pm



7 pm

Elastic MapReduce

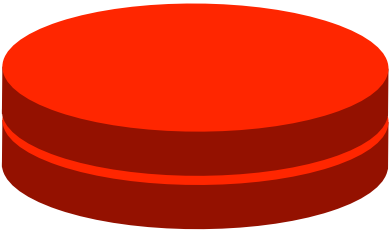
aws.amazon.com/emr

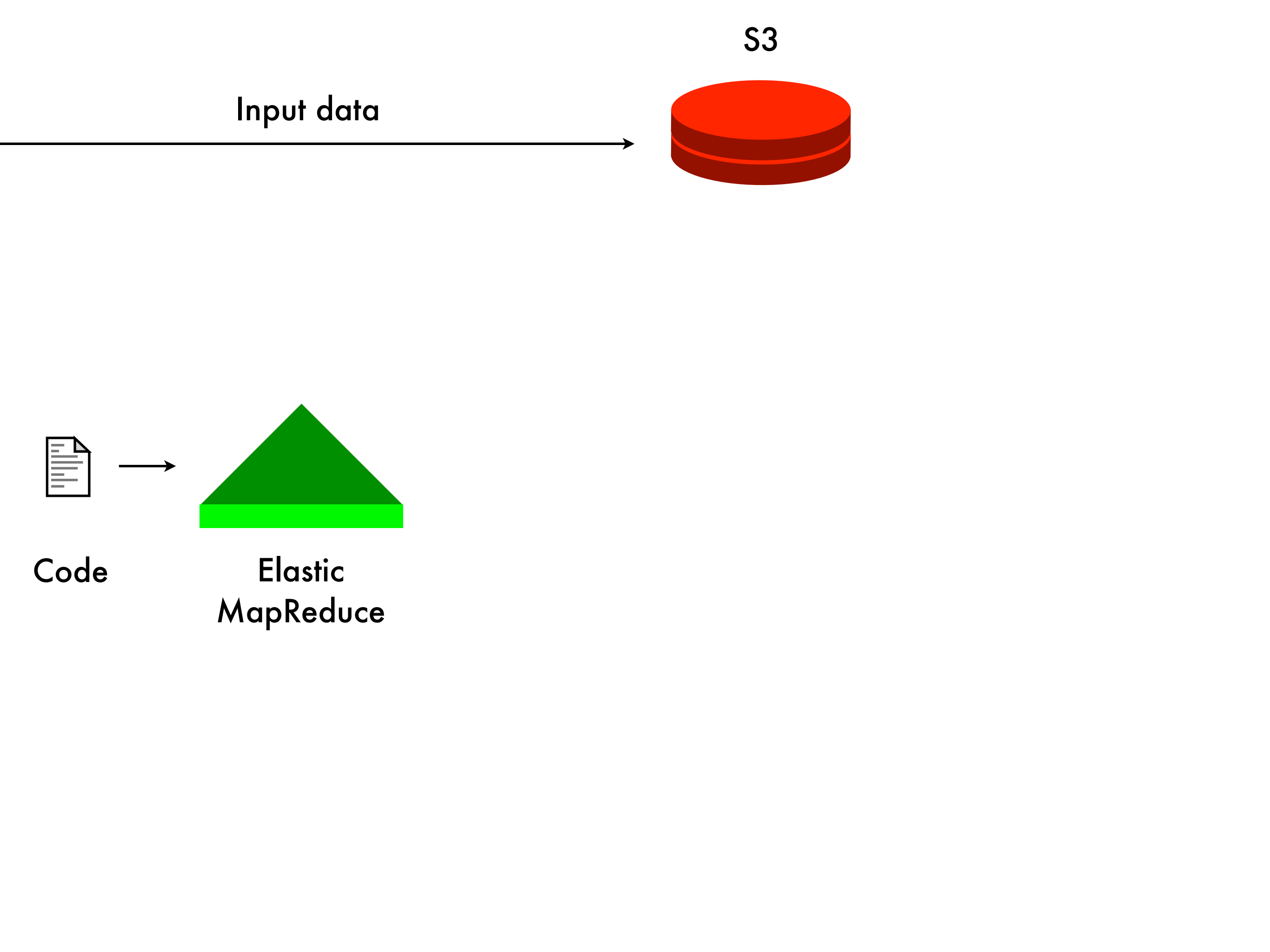
Hosted Hadoop

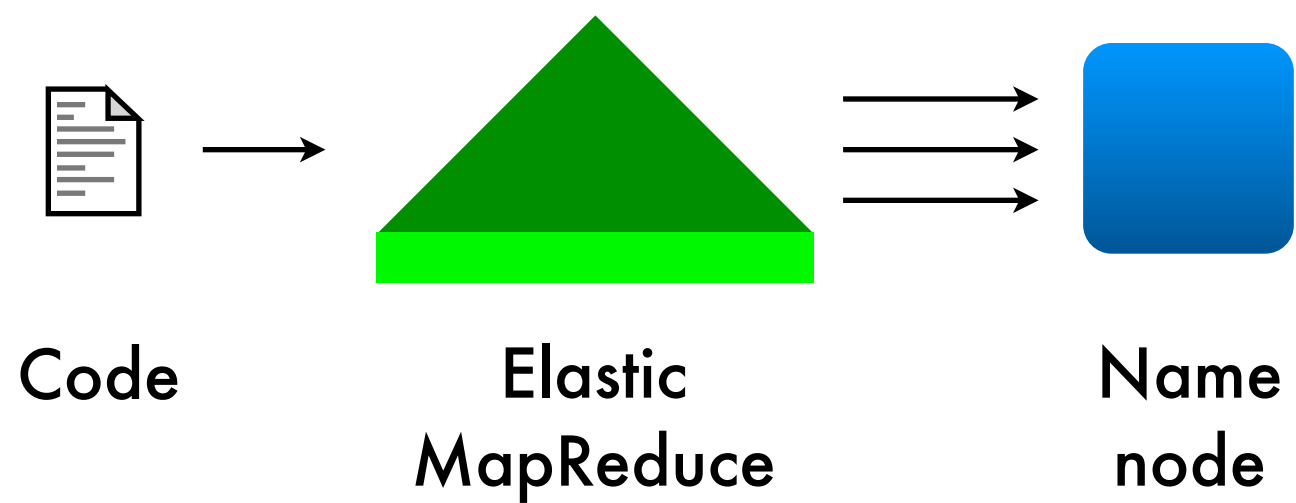
Without the
'muck'

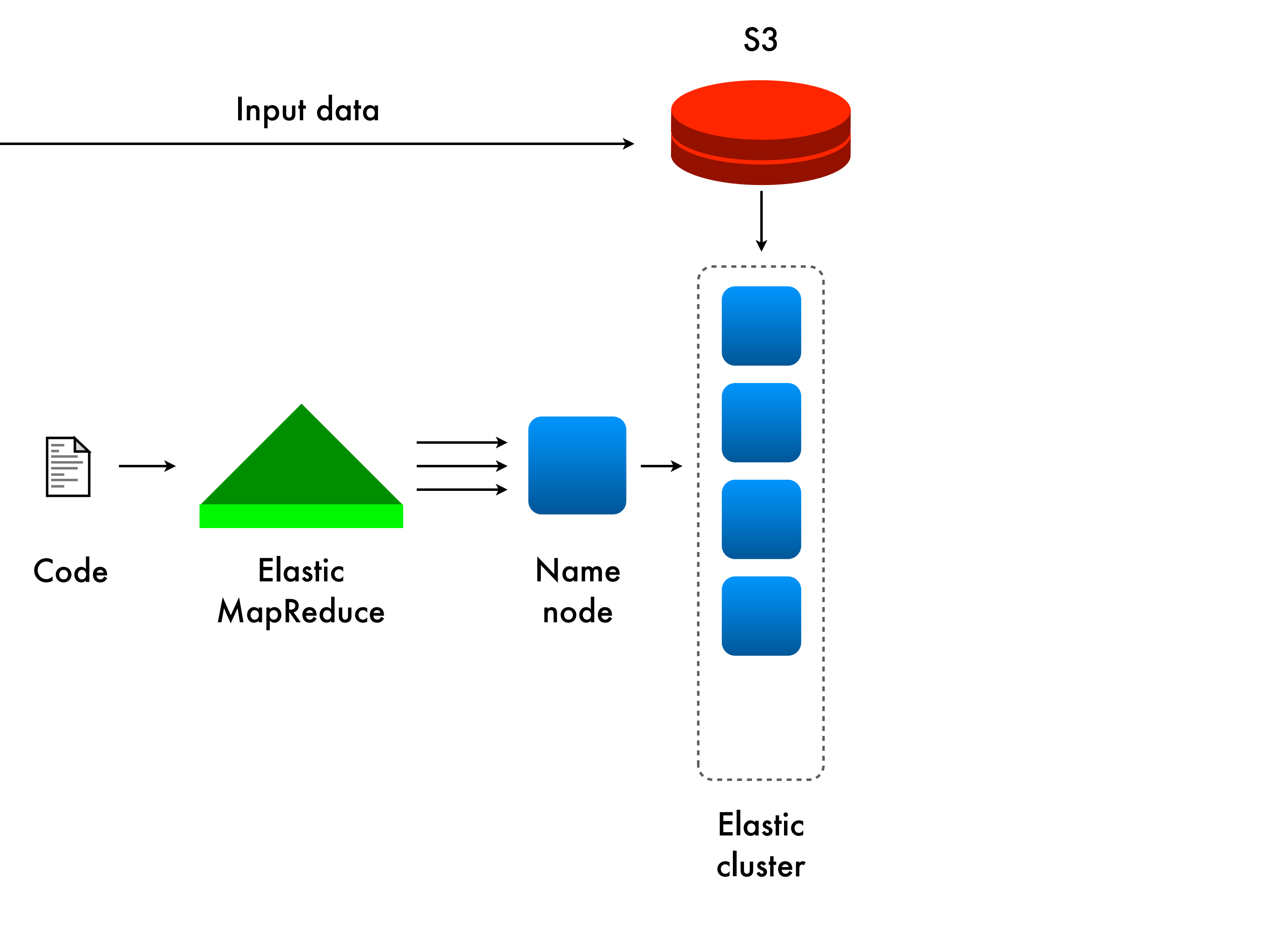
Input data

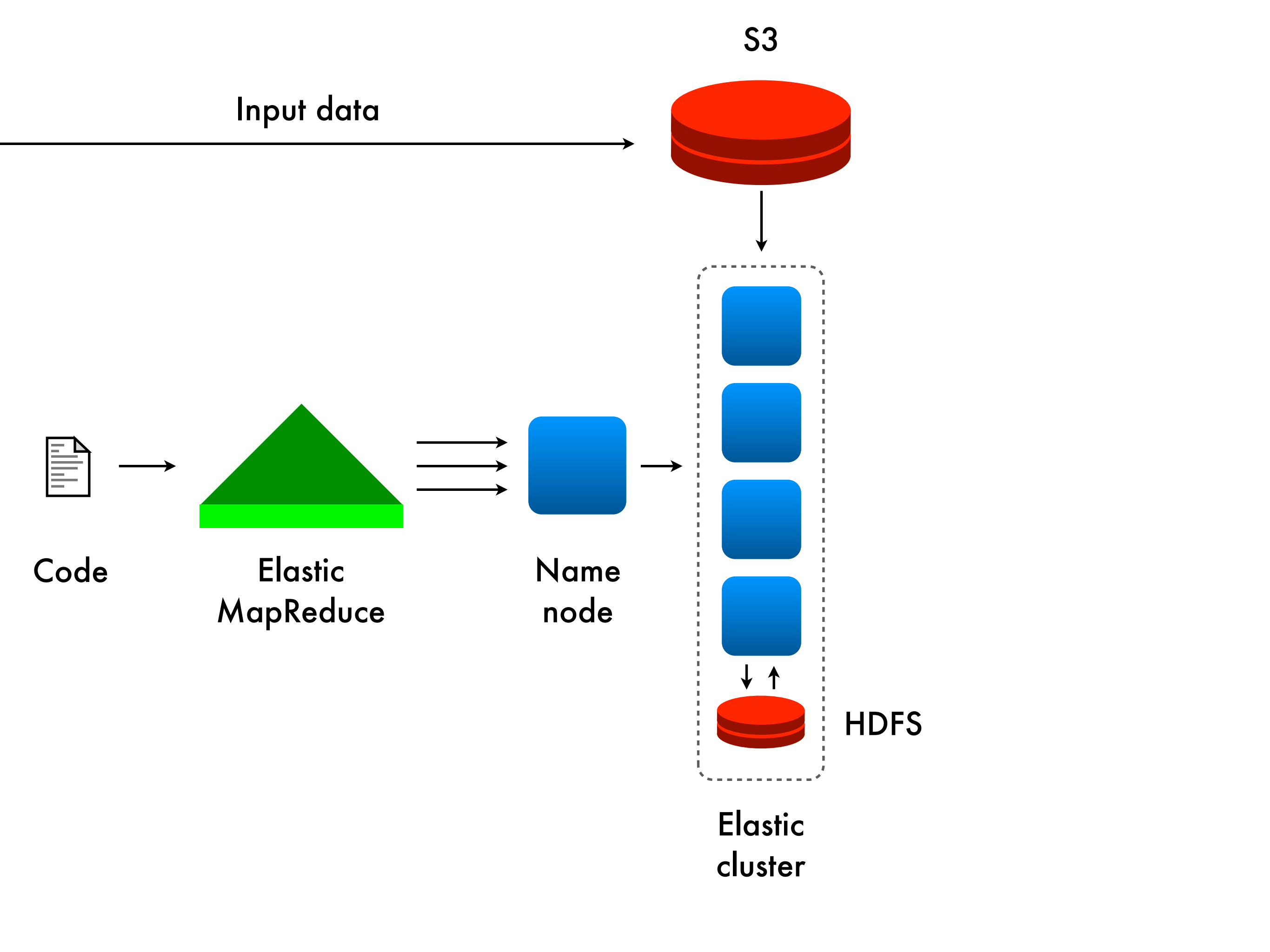
S3

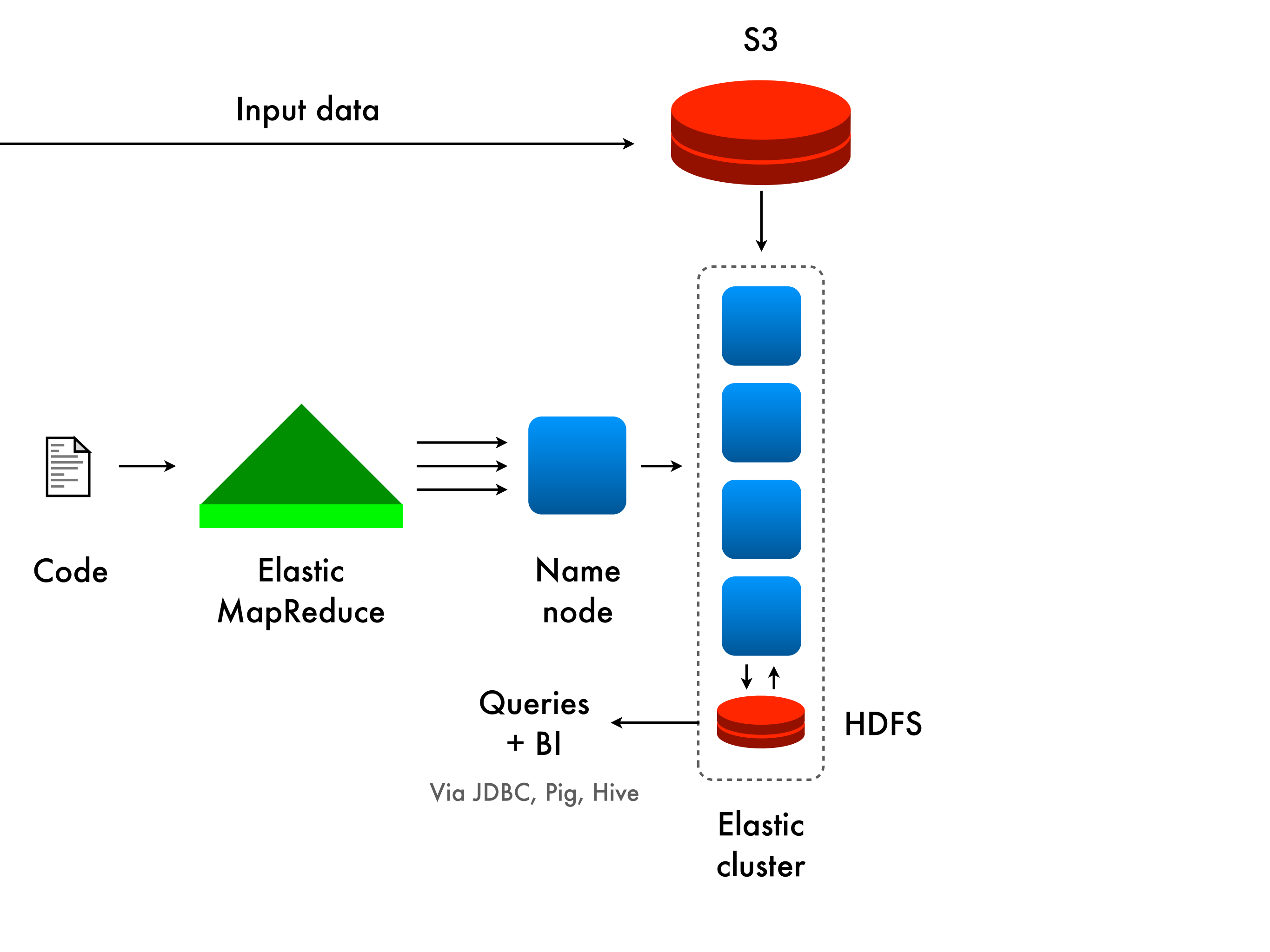


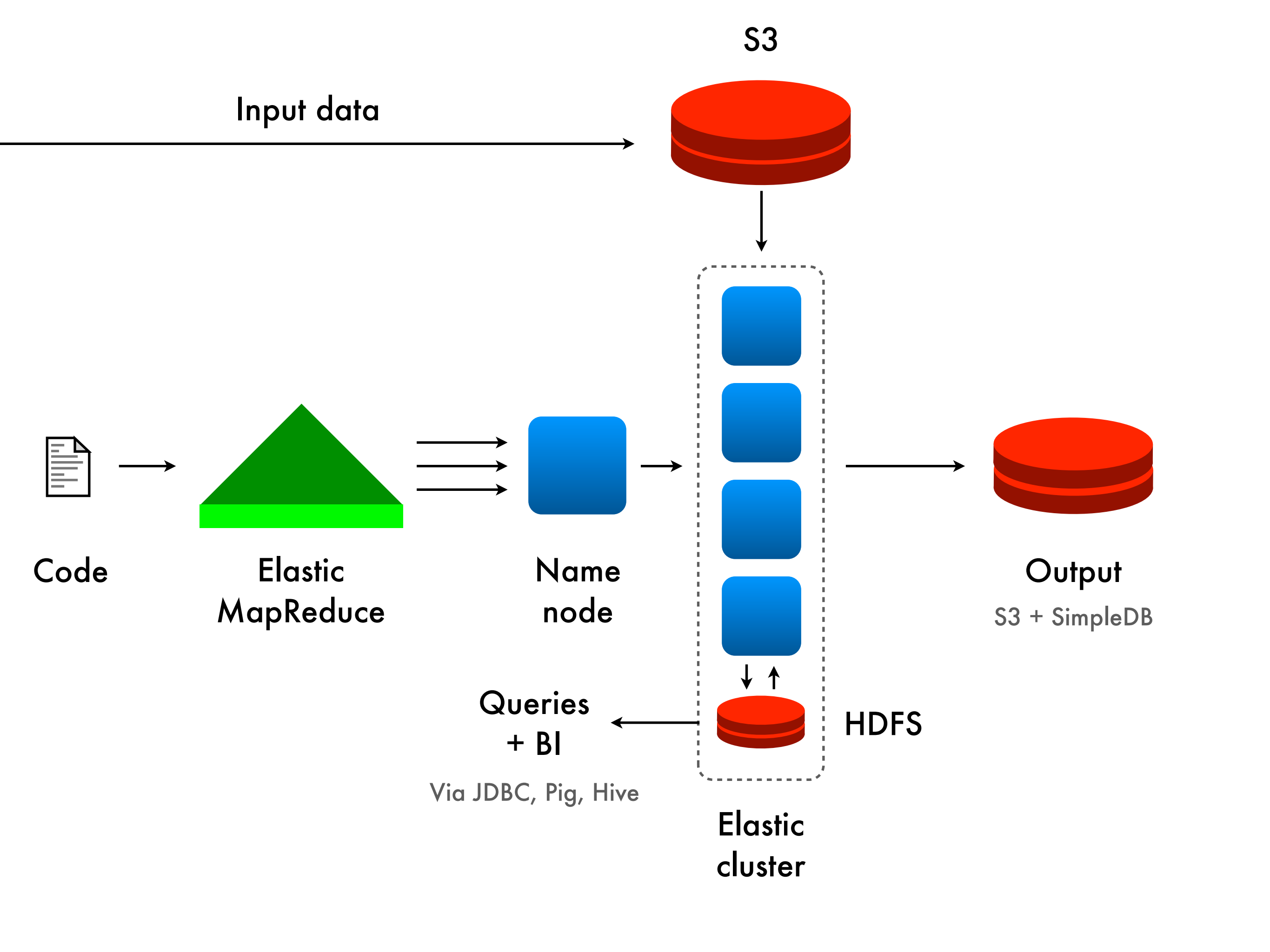






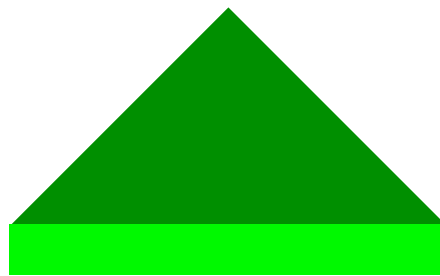
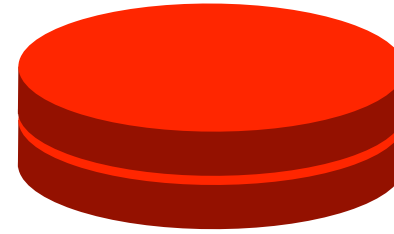




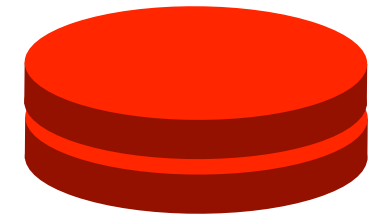


Input data

S3



Elastic
MapReduce



Output
S3 + SimpleDB

- AWS Elastic Beanstalk
- Amazon S3
- Amazon EC2
- Amazon VPC
- Amazon CloudWatch
- Amazon Elastic MapReduce
- Amazon CloudFront
- AWS CloudFormation
- Amazon RDS
- Amazon SNS
- AWS IAM

Your Elastic MapReduce Job Flows

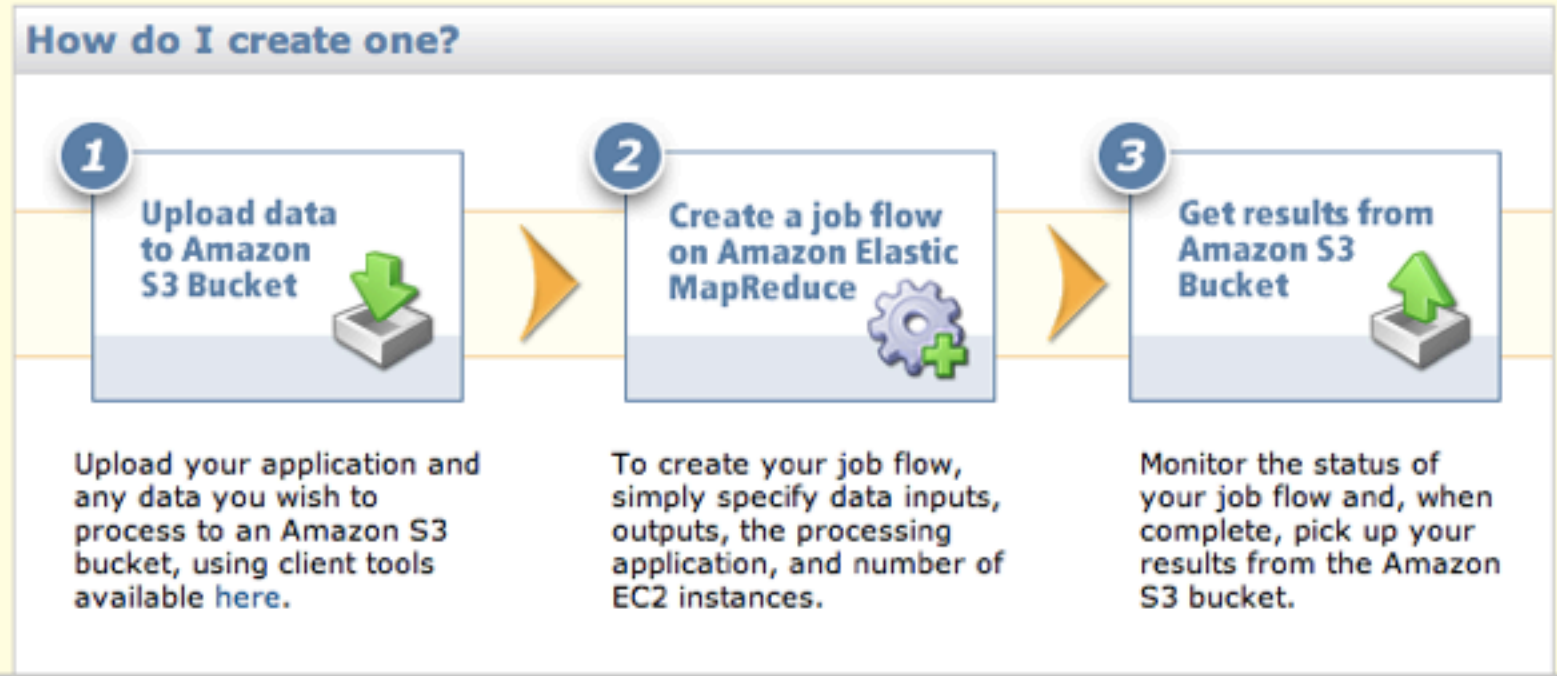
Region: EU West Create New Job Flow Terminate Debug Show/Hide Refresh Help

Viewing: All No Job Flows

Create a Job Flow

You have not yet created any job flows. Click the button below to create your first job flow. Sample processing applications are available to help get you started.

Create New Job Flow



Create a New Job Flow

Cancel X



DEFINE JOB FLOW

SPECIFY PARAMETERS

CONFIGURE EC2 INSTANCES

BOOTSTRAP ACTIONS

REVIEW

Creating a job flow to process your data using Amazon Elastic MapReduce is simple and quick. Let's begin by giving your job flow a name and selecting its type. If you don't already have an application you'd like to run on Amazon Elastic MapReduce, samples are available to help you get started.

Job Flow Name*:

Job Flow Name doesn't need to be unique. We suggest you give it a descriptive name.

Create a Job Flow*: ☐ Run your own application☒ Run a sample application

Word count is a Python application that counts occurrences of each word in provided documents.
[Learn More](#)

Continue



* Required field

Create a New Job Flow

Cancel X

✓

DEFINE JOB FLOW

SPECIFY PARAMETERS

CONFIGURE EC2 INSTANCES

BOOTSTRAP ACTIONS

REVIEW

Specify Mapper and Reducer functions to run within the Job Flow. The mapper and reducers may be either (i) class names referring to a mapper or reducer class in Hadoop or (ii) locations in Amazon S3. ([Click Here](#) for a list of available tools to help you upload and download files from Amazon S3.) The format for specifying a location in Amazon S3 is bucket_name/path_name. The location should point to an executable program, for example a python program. Extra arguments are passed to the Hadoop streaming program and can specify things such as additional files to be loaded into the distributed cache.

Input Location*

eu-west-1.elasticmapreduce/samples/wordcount/input

The URL of the Amazon S3 Bucket that contains the input files.

Output Location*

mza/wordcount/output/2011-05-12

The URL of the Amazon S3 Bucket to store output files. Should be unique.

Mapper*

eu-west-1.elasticmapreduce/samples/wordcount/wordSpli

The mapper Amazon S3 location or streaming command to execute.


Reducer*

aggregate

The reducer Amazon S3 location or streaming command to execute.

Extra Args:

Create a New Job Flow

Cancel 

Enter the number and type of EC2 instances you'd like to run your job flow on.

Number of Instances*:

If you wish to run more than 20 instances, please complete the [limit request form](#).

Type of Instance*:

[Learn more about instance types.](#)

Amazon EC2 Key Pair:

Use an existing Key Pair to SSH into the master node of the Amazon EC2 cluster as the user "hadoop".

Configure your debugging options. [Learn more.](#)

Enable Debugging: ☐ Yes ☒ No

Amazon S3 Log Path:

An Amazon S3 Log Path is required if you are enabling debugging.

Enable Hadoop Debugging: ☐ Yes ☒ No

To enable Hadoop Debugging you will need to [sign up for Amazon SimpleDB](#).

[< Back](#)[Continue](#) 

* Required field

Your Elastic MapReduce Job Flows

Region:

EU West

Create New Job Flow

Terminate

Debug

Show/Hide

Refresh

Help

Viewing:

All

1 to 1 of 1 Job Flows

	Name	State	Creation Date	Elapsed Time	Normalized Instance Hours
	My Job Flow	STARTING	2011-05-12 13:40 GMT+0	0 hours 0 minutes	0

1 Job Flow selected

Job Flow: j-3KCBEUQQ4GS5H


Last State Change Reason: -

Description	Steps	Bootstrap Actions	Instance Groups
Name:	My Job Flow		
Start Date:	-		
Availability Zone:	-		
Master Instance Type:	m1.small		
Key Name:	aws		
Master Public DNS Name:	-		

Creation Date:	2011-05-12 13:40 GMT+0100
End Date:	-
Instance Count:	10
Slave Instance Type:	m1.small
Log URI:	-
Hadoop Version:	0.20

Your Elastic MapReduce Job Flows					
Region: EU West		Create New Job Flow	Terminate	Debug	Show/Hide Refresh Help
Viewing: All		<div> <div>1 to 1 of 1 Job Flows</div> <div> <div></div> <div></div> </div> </div>			
	Name	State	Creation Date	Elapsed Time	Normalized Instance Hours
<input checked="" type="checkbox"/>	My Job Flow	COMPLETED	2011-05-12 13:40 GMT+0	0 hours 4 minutes	10

1 Job Flow selected


Job Flow: j-3KCBEUQQ4GS5H

Last State Change Reason: Steps completed

Description

Steps

Bootstrap Actions

Instance Groups

Name:

My Job Flow

Start Date:

2011-05-12 13:44 GMT+0100

Availability Zone:

eu-west-1a

Master Instance Type:

m1.small

Key Name:

aws

Master Public DNS Name:

ec2-46-137-22-212.eu-west-1.compute.amazonaws.com

Creation Date:

2011-05-12 13:40 GMT+0100

End Date:

2011-05-12 13:47 GMT+0100

Instance Count:

10

Slave Instance Type:

m1.small

Log URI:

-

Hadoop Version:

0.20

- AWS Elastic Beanstalk
- Amazon S3
- Amazon EC2
- Amazon VPC
- Amazon CloudWatch
- Amazon Elastic MapReduce
- Amazon CloudFront
- AWS CloudFormation
- Amazon RDS
- Amazon SNS
- AWS IAM

Your Elastic MapReduce Job Flows

Region:

EU West

Create New Job Flow

Terminate

Debug

Show/Hide

Refresh

Help

Viewing:

All

1 to 1 of 1 Job Flows

	Name	State	Creation Date	Elapsed Time	Normalized Instance Hours
<input checked="" type="checkbox"/>	My Job Flow	<div>COMPLETED</div>	2011-05-12 13:40 GMT+0	0 hours 4 minutes	10

1 Job Flow selected

Job Flow: j-3KCBEUQQ4GS5H

Last State Change Reason: Steps completed

Description

Steps

Bootstrap Actions

Instance Groups

Instance Group Id	Role	Instance Type	State	Running Count	Request Count	Creation DateTime	Last State Change Reason
ig-24XVTCKNOBXNY	MASTER	m1.small	ENDED	0	1	2011-05-12 13:40 GMT+0100	Job flow terminated
ig-X0QNDMX7MACL	CORE	m1.small	ENDED	0	9	2011-05-12 13:40 GMT+0100	Job flow terminated

- AWS Elastic Beanstalk
- Amazon S3
- Amazon EC2
- Amazon VPC
- Amazon CloudWatch
- Amazon Elastic MapReduce
- Amazon CloudFront
- AWS CloudFormation
- Amazon RDS
- Amazon SNS
- AWS IAM

Buckets

Create Bucket

Actions

aws-slides

aws-wp-assets

cf-templates-xthrnrfznsj-ap-n

cf-templates-xthrnrfznsj-eu-w

cf-templates-xthrnrfznsj-us-e

cf-templates-xthrnrfznsj-us-w

elasticbeanstalk-us-east-1-545

hpc-video

my-website

mza

Objects and Folders

Upload

Create Folder

Actions

Refresh

Properties

Transfers

Help

mza > wordcount > output > 2011-05-12

Name	Size	Last Modified
part-00000	19 KB	Thu May 12 12:46:24 GMT+100 2011
part-00001	20.8 KB	Thu May 12 12:46:23 GMT+100 2011
part-00002	19.8 KB	Thu May 12 12:46:27 GMT+100 2011
part-00003	19.7 KB	Thu May 12 12:46:24 GMT+100 2011
part-00004	20.1 KB	Thu May 12 12:46:23 GMT+100 2011
part-00005	18.8 KB	Thu May 12 12:46:23 GMT+100 2011
part-00006	19.4 KB	Thu May 12 12:46:27 GMT+100 2011
part-00007	18.9 KB	Thu May 12 12:46:25 GMT+100 2011
part-00008	19.1 KB	Thu May 12 12:46:24 GMT+100 2011
part-00009	19.2 KB	Thu May 12 12:46:32 GMT+100 2011
part-00010	19 KB	Thu May 12 12:46:32 GMT+100 2011
part-00011	19.3 KB	Thu May 12 12:46:33 GMT+100 2011
part-00012	19.8 KB	Thu May 12 12:46:34 GMT+100 2011
part-00013	19.6 KB	Thu May 12 12:46:33 GMT+100 2011
part-00014	19.9 KB	Thu May 12 12:46:33 GMT+100 2011

part-00000

1	abbreviated	27
2	abdellah	9
3	abderrazzak	3
4	abdication	6
5	abducted	3
6	abena	3
7	abu	83
8	acceded	24
9	accession	73
10	accorded	6
11	accumulate	3
12	acevedo	3
13	act	144
14	actual	24
15	adamkus	9
16	adams	6
17	add	19
18	additionally	21
19	address	668
20	adil	12
21	adiyaman	3
22	admonition	12
23	adolf	3
24	adrift	21
25	adulyadej	3
26	advantages	3
27	advisory	55
28	aer	3
29	aerosol	1
30	afar	24
31	afrikaans	6

Line: 1 Column: 1 Plain Text Tab Size: 4

It's all just
Hadoop

HDFS + S3

Hive, Pig,
Cascading,
Streaming

API driven

FREE

3

Security at
every level

Shared
responsibility

Requirement
based access

Certification

ISO 27001

+

SAS 70 Type II

PCI DSS

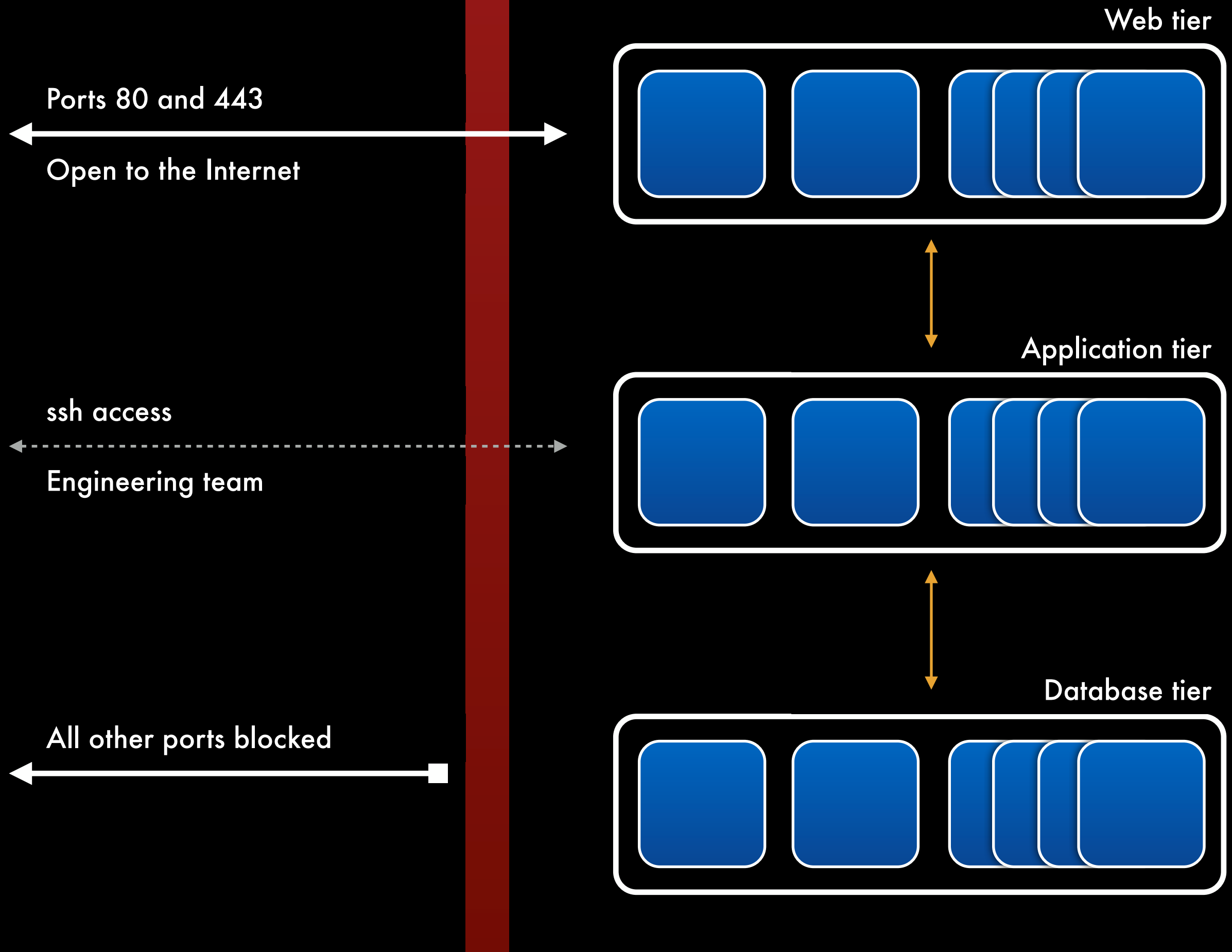
Level 1

Control objectives

Security organisation	Employee lifecycle
Logical security	Secure data handling
Physical security	Environmental safeguards
Change management	Incident handling
Data integrity	Availability and redundancy

Default deny
firewall

Security groups



DDOS

Man in the Middle

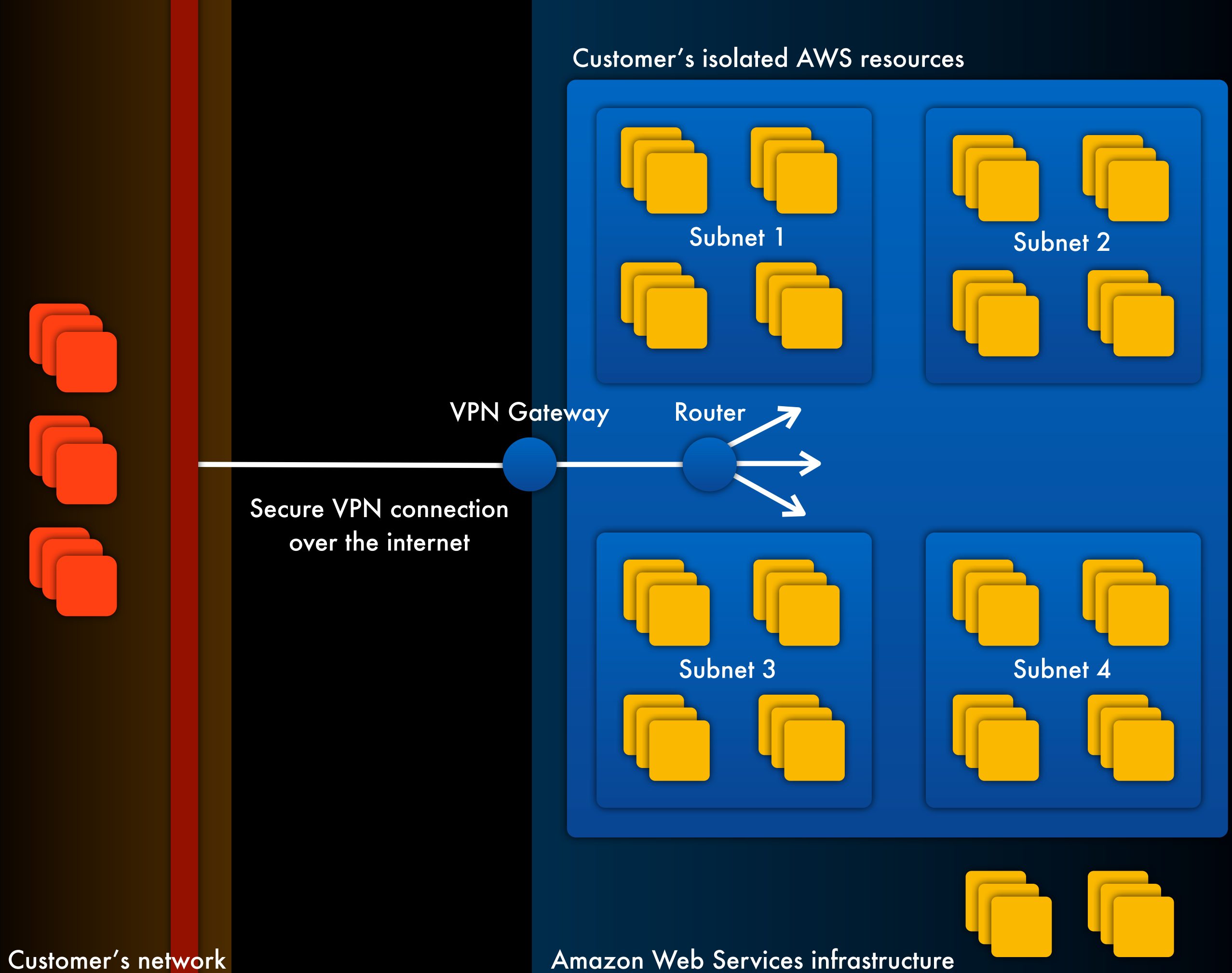
IP spoofing

Data access
control

Identity and access

Resource isolation

Virtual Private Cloud



aws.amazon.com/security

In summary...



Undifferentiated
heavy lifting



Focus on your stuff



From app hosting to
analytics



Available on-demand



Pay as you go



Security at every level



aws.amazon.com

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of EC2

One year

FREE TIER

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& SimpleDB

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Request Instances Wizard

Cancel X



Choose an Amazon Machine Image (AMI) from one of the tabbed lists below by clicking its **Select** button.

Quick Start

My AMIs

Community AMIs



Basic 32-bit Amazon Linux AMI 1.0 (AMI Id: ami-08728661)

Amazon Linux AMI Base 1.0, EBS boot, 32-bit architecture with Amazon EC2 AMI Tools. **Root Device Size:** 10 GiB

Select



Basic 64-bit Amazon Linux AMI 1.0 (AMI Id: ami-2272864b)

Amazon Linux AMI Base 1.0, EBS boot, 64-bit architecture with Amazon EC2 AMI Tools. **Root Device Size:** 10 GiB

Select



SUSE Linux Enterprise Server 11 32-bit (AMI Id: ami-e0a35789)

SUSE Linux Enterprise Server 11 Service Pack 1 basic install, EBS boot, 32-bit architecture with Amazon EC2 AMI Tools preinstalled; Apache 2.2, MySQL 5.0, PHP 5.3, Ruby 1.8.7, and Rails 2.3. **Root Device Size:** 15 GiB

Select



SUSE Linux Enterprise Server 11 64-bit (AMI Id: ami-e4a3578d)

SUSE Linux Enterprise Server 11 Service Pack 1 basic install, EBS boot, 64-bit architecture with Amazon EC2 AMI Tools preinstalled; Apache 2.2, MySQL 5.0, PHP 5.3, Ruby 1.8.7, and Rails 2.3. **Root Device Size:** 15 GiB

Select



Getting Started on Microsoft Windows Server 2008 (AMI Id: ami-c5e40dac)

Microsoft Windows Server 2008 R1 SP2 Datacenter edition, 32-bit architecture, Microsoft SQLServer 2008 Express, Internet Information Services 7, ASP.NET 3.5. **Root Device Size:** 30 GiB

Select

Instances

Launch Instance

Instance Actions

Reserved Instances

Show/Hide











Refresh

Help

Filtering: All Instances

All Instance Types

1 to 5 of 5 Instances

Name	Instance	AMI ID	Root Device	Type	Status	Lifecycle	Security Groups	Key Pairs
	 i-011f246b	ami-22b0534b	instance-store	m1.small	 running	normal	quick-start-1	amazon-ec2-ssh-key
	 i-071f246d	ami-22b0534b	instance-store	m1.small	 running	normal	quick-start-1	amazon-ec2-ssh-key
	 i-051f246f	ami-22b0534b	instance-store	m1.small	 running	normal	quick-start-1	amazon-ec2-ssh-key
	 i-1b1f2471	ami-22b0534b	instance-store	m1.small	 running	normal	quick-start-1	amazon-ec2-ssh-key
	 i-191f2473	ami-22b0534b	instance-store	m1.small	 running	normal	quick-start-1	amazon-ec2-ssh-key

2 Instances selected

Select an instance above

Thank you!



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@mza
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