

AWS Developer: Getting Started

WELCOME TO AWS



Ryan Lewis

WEB ENGINEER

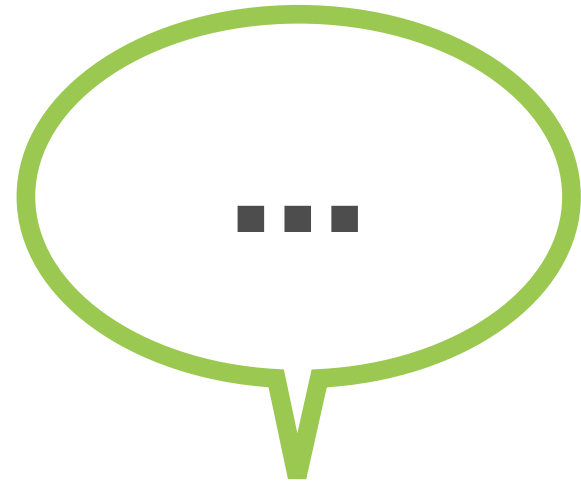
@ryanmurakami www.ryanhlewis.com



amazon
web services™





Cloud ?



AWS Developer: Getting Started



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AWS Developer: The Big Picture


By Ryan Lewis

Amazon Web Services is the biggest cloud computing service in the world, used by huge enterprises and startups alike. This course will give you a solid overview of what AWS is, how it can be used, and the various ways it can be accessed.

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 Course Overview


1m 43s

▼

 What Is AWS?

26m 24s

▼

 Understanding the Core Services of AWS


27m 16s

▼

Course info

Level	Beginner
Rating	★★★★☆ (65)
Duration	1h 34m
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Course authors



Ryan Lewis

Ryan Lewis is a Software Engineer who specializes in ambitious single page web applications. He teaches Java and JavaScript to aspiring web developers and technology professionals. In his free time, Ryan enjoys spending time with his family, playing video games, and releasing underground Japanese music on his record label, MeatCube.

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<https://www.pluralsight.com/courses/aws-developer-big-picture>

Summary

Developing in the Clouds

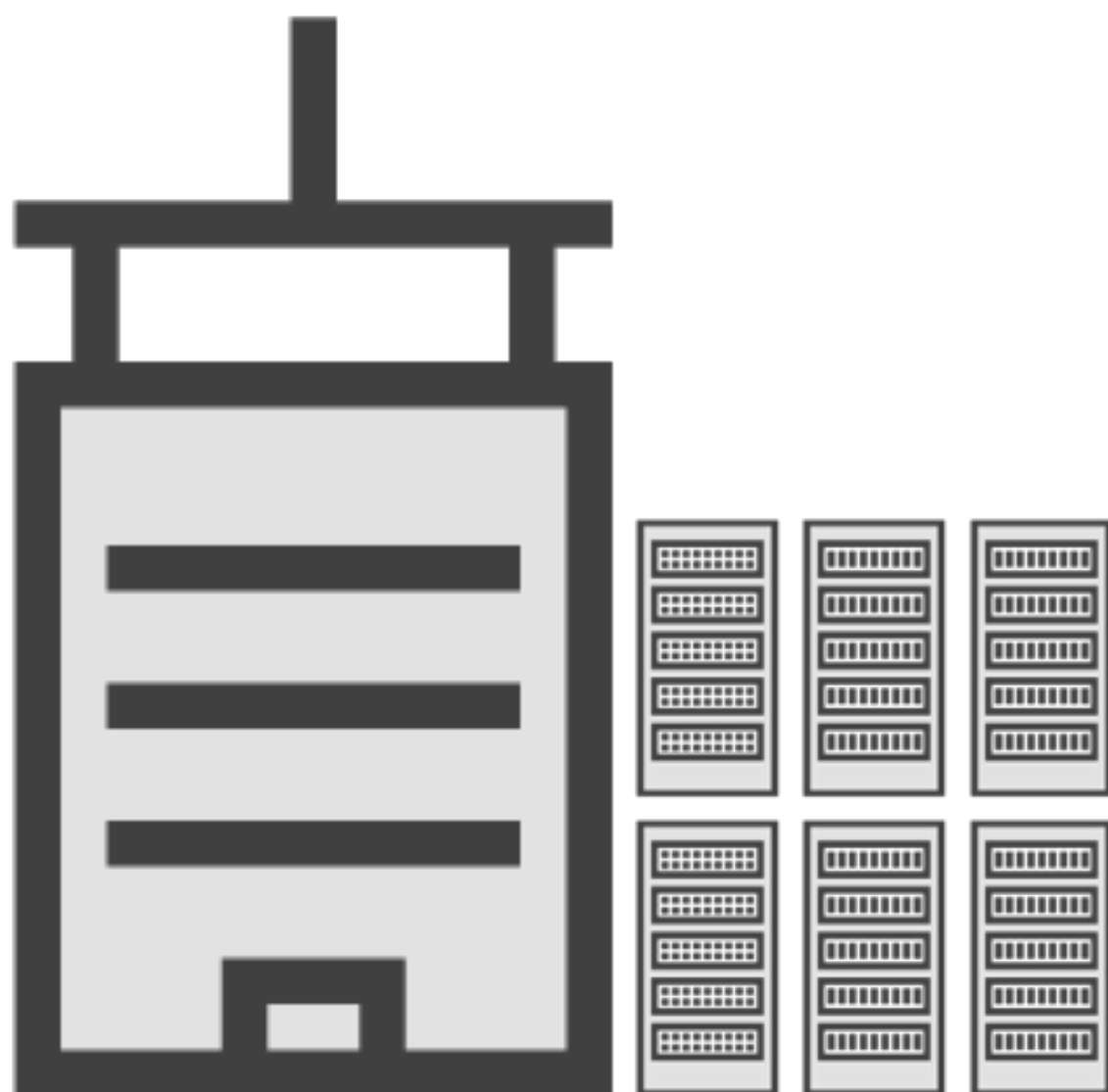
Even you can develop on AWS

Tools of the Trade

Who loves pizza?

Install the Magic

Developing in the Cloud



Hi. I'm
new here.



Similar

Local Development & AWS Development

Application runs on OS/Platform

Requires platform to be installed (eg .NET)

HTTP Servers listens on ports

Connects to outside databases

Different

Local Development

Everything runs locally on same machine

Files stored on server

Database on same server as application

Connections done manually

AWS Development

One Service = One Responsibility

Files served from S3

Database as a Service

Connections done with AWS SDK

“Well... This is weird.”

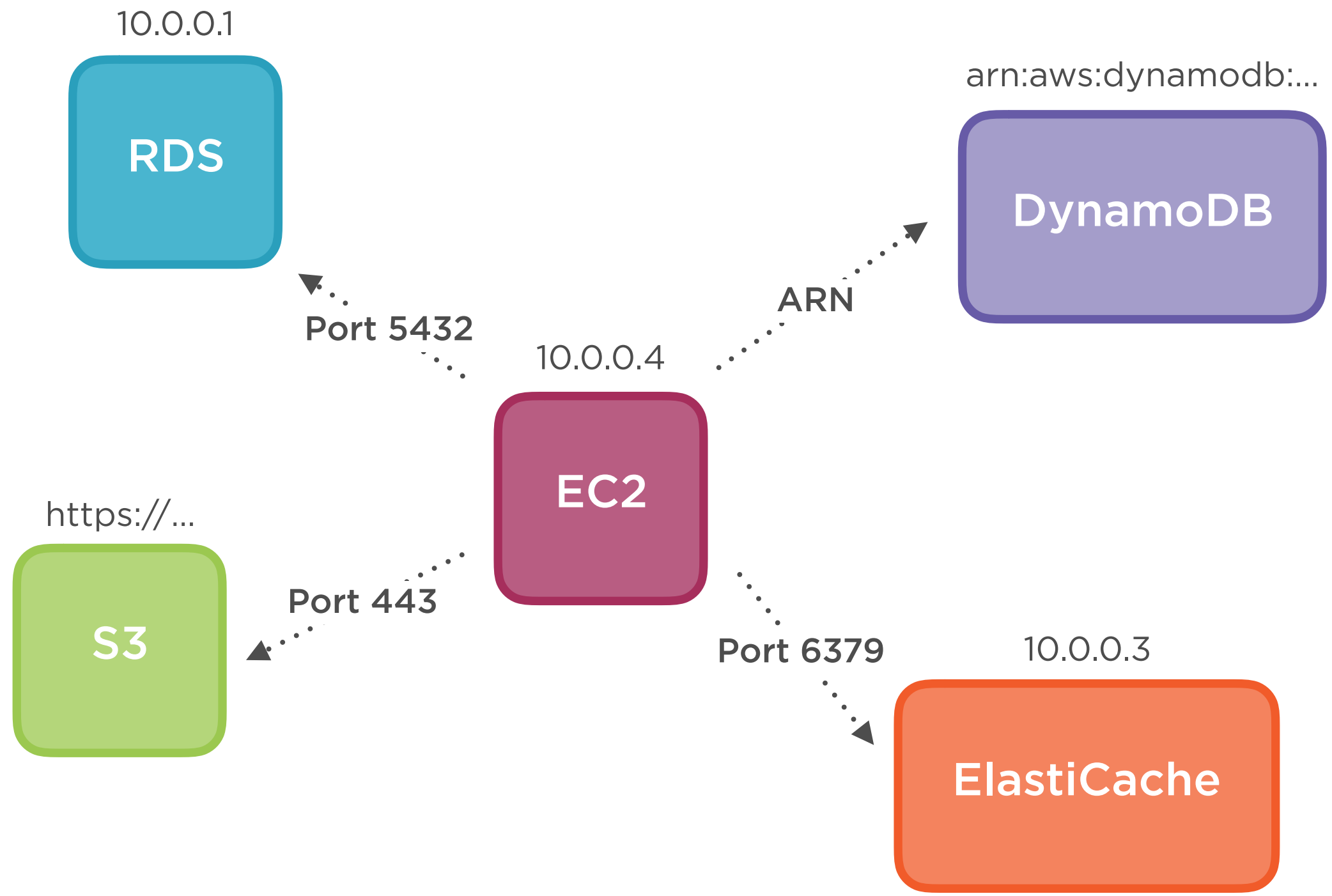
- **Anonymous Aspiring AWS Developer**

The Web of Amazon Web Services

55 services currently available from AWS

Where do you start?



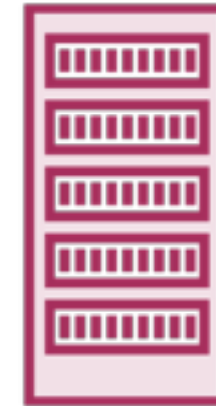
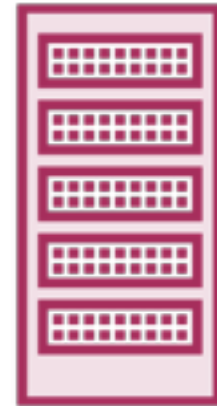


Relational
Database Service

Elastic Beanstalk

EC2

Elastic Cloud
Compute



“Wow! AWS is really easy.”

- Developer that just finished watching AWS Developer: Getting Started

AWS Tooling: Web Console

Web Console

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, a dropdown menu for 'Services', and an 'Edit' button. The right side of the header shows the user's name 'Ryan Lewis', the region 'Oregon', and a 'Support' link. The main content area is titled 'Amazon Web Services' and displays a grid of service categories, each with a list of services and their descriptions. The categories are: Compute (EC2, EC2 Container Service, Elastic Beanstalk, Lambda), Storage & Content Delivery (S3, CloudFront, Elastic File System, Glacier, Snowball, Storage Gateway), Database (RDS, DynamoDB), Developer Tools (CodeCommit, CodeDeploy, CodePipeline), Management Tools (CloudWatch, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Trusted Advisor), Security & Identity (Identity & Access Management, Directory Service), Internet of Things (AWS IoT), Game Development (GameLift), Mobile Services (Mobile Hub, Cognito, Device Farm, Mobile Analytics, SNS), and Application Services (API Gateway, AppStream, CloudSearch, Elastic Transcoder). On the right side, there is a 'Resource Groups' section with a 'Learn more' link, a 'Create a Group' button, and a 'Tag Editor' button. Below this is an 'Additional Resources' section with links to 'Getting Started', 'AWS Console Mobile App', 'AWS Marketplace', and 'AWS re:Invent Announcements'.

AWS Management Console

https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2#

Amazon Web Services

Compute

- EC2**
Virtual Servers in the Cloud
- EC2 Container Service**
Run and Manage Docker Containers
- Elastic Beanstalk**
Run and Manage Web Apps
- Lambda**
Run Code in Response to Events

Storage & Content Delivery

- S3**
Scalable Storage in the Cloud
- CloudFront**
Global Content Delivery Network
- Elastic File System**
Fully Managed File System for EC2
- Glacier**
Archive Storage in the Cloud
- Snowball**
Large Scale Data Transport
- Storage Gateway**
Hybrid Storage Integration

Database

- RDS**
Managed Relational Database Service
- DynamoDB**
Managed NoSQL Database

Developer Tools

- CodeCommit**
Store Code in Private Git Repositories
- CodeDeploy**
Automate Code Deployments
- CodePipeline**
Release Software using Continuous Delivery

Management Tools

- CloudWatch**
Monitor Resources and Applications
- CloudFormation**
Create and Manage Resources with Templates
- CloudTrail**
Track User Activity and API Usage
- Config**
Track Resource Inventory and Changes
- OpsWorks**
Automate Operations with Chef
- Service Catalog**
Create and Use Standardized Products
- Trusted Advisor**
Optimize Performance and Security

Security & Identity

- Identity & Access Management**
Manage User Access and Encryption Keys
- Directory Service**
Host and Manage Active Directory

Internet of Things

- AWS IoT**
Connect Devices to the Cloud

Game Development

- GameLift**
Deploy and Scale Session-based Multiplayer Games

Mobile Services

- Mobile Hub**
Build, Test, and Monitor Mobile Apps
- Cognito**
User Identity and App Data Synchronization
- Device Farm**
Test Android, iOS, and Web Apps on Real Devices in the Cloud
- Mobile Analytics**
Collect, View and Export App Analytics
- SNS**
Push Notification Service

Application Services

- API Gateway**
Build, Deploy and Manage APIs
- AppStream**
Low Latency Application Streaming
- CloudSearch**
Managed Search Service
- Elastic Transcoder**

Resource Groups [Learn more](#)

A resource group is a collection of resources that share one or more tags. Create a group for each project, application, or environment in your account.

[Create a Group](#) [Tag Editor](#)

Additional Resources

[Getting Started](#) [Read our documentation](#) or view our [training](#) to learn more about AWS.

[AWS Console Mobile App](#) [View your resources on the go with our AWS Console mobile app, available from Amazon Appstore, Google Play, or iTunes.](#)

[AWS Marketplace](#) [Find and buy software, launch with 1-Click and pay by the hour.](#)

[AWS re:Invent Announcements](#) [Explore the next generation of AWS cloud capabilities. See what's new](#)

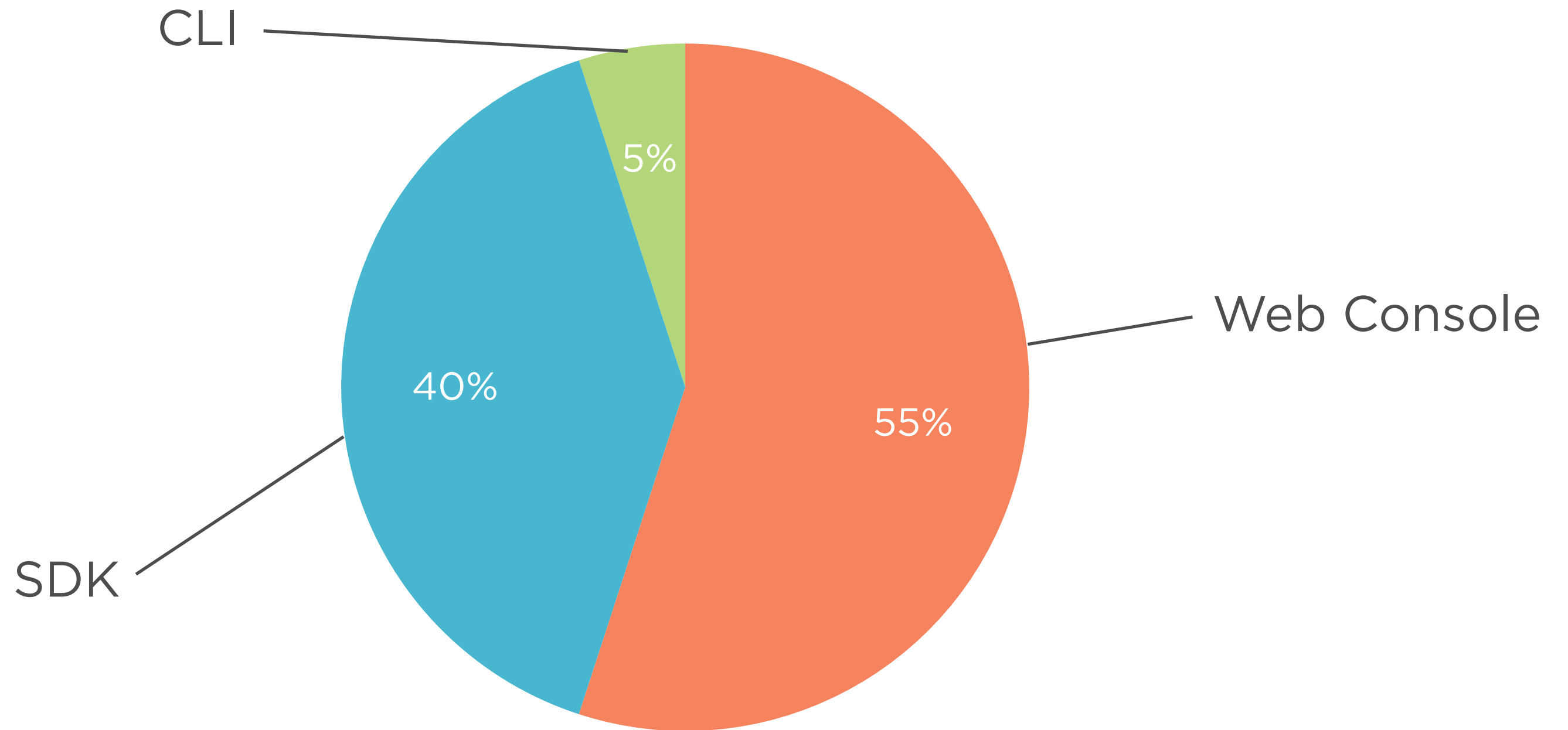
Web Console

Configure & create resources

Each service has its own dashboard

Dashboards are similar to each other

Tooling Usage in This Course



The AWS Console works
best in a modern browser

AWS Tooling: Command Line Interface

AWS CLI Features

**Great for Shell
Scripting**

**Feature Complete
with Console &
SDKs**

**Interact with Any
Service**

AWS CLI: Made for
Operations Engineers more
than Developers

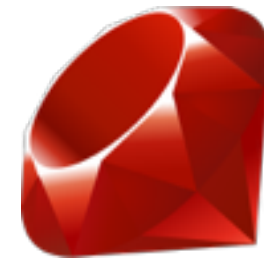
CLI Usage in This Course

Configure local development environment

Alternative to Console Actions

AWS Tooling: Software Development Kits

Some of the AWS SDKs



iOS



AWS Access Key gives
access for SDK & CLI

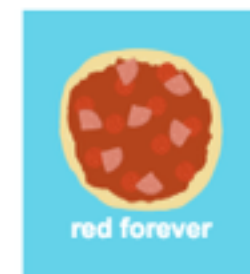
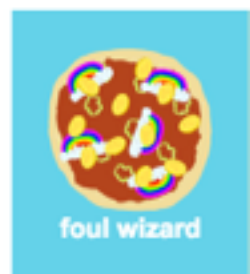


Who Luvs Pizza?

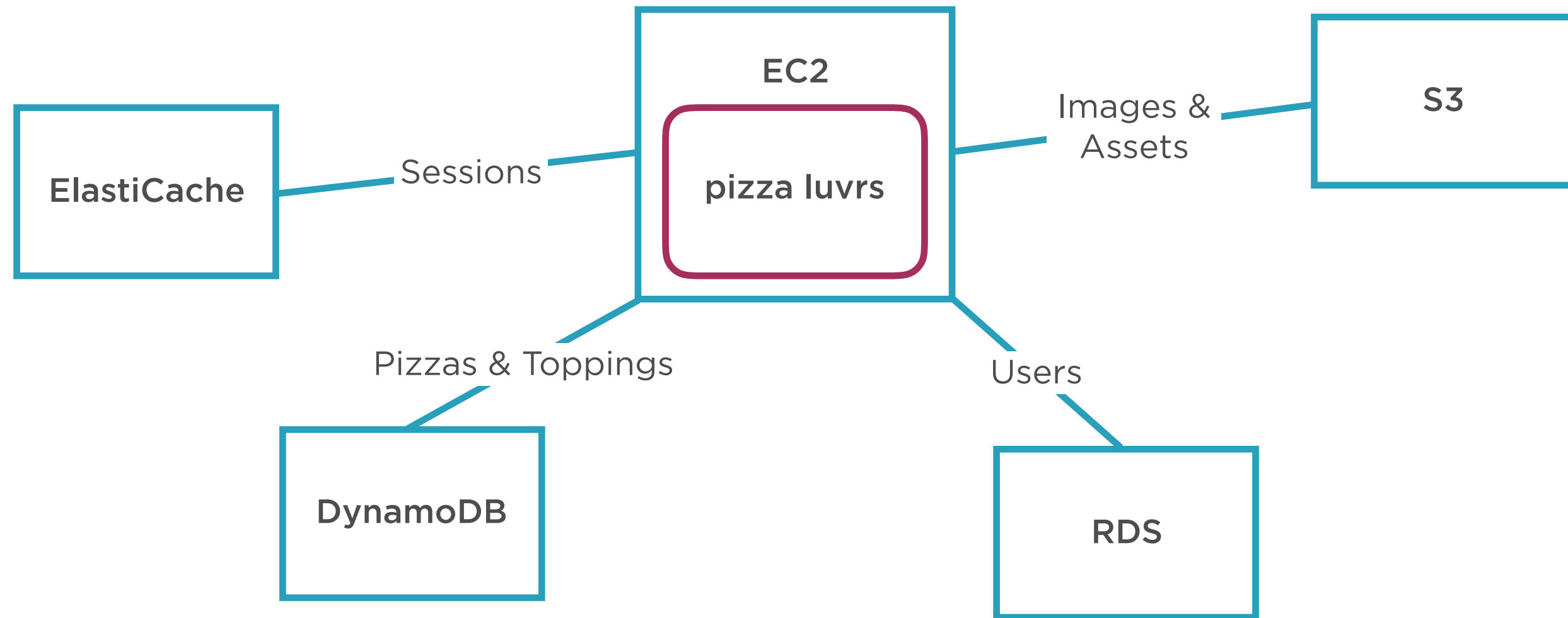
Demo Application



Recent Pizzas



Application Mapping to AWS Services



We'll learn AWS by doing

Installing Node.js



JavaScript Platform for
developing applications

Installing the AWS CLI

Windows users may need to
restart for the CLI to work in
a Command Prompt

Creating and Initializing an AWS Account

An AWS Access Key is
required for the CLI & SDK

AWS Access Keys can be
created and deleted easily

Conclusion

Summary

The AWS Development Experience

Untangling the AWS web

AWS Toolbox

Move aside Facebook...

AWS Dev preparations completed

Up Next:

Sounding the Alarm with IAM and CloudWatch

IAM & CloudWatch

**Configuring and
Managing Users**

**Setting Alarms
and Logging**