

Part 1 Amazon EC2 Server Instance

The screenshot displays the Amazon Management Console interface for the EC2 service. On the left, a navigation pane lists various services including EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, SPOT REQUESTS, RESERVED INSTANCES, IMAGES, AMIs, Bundle Tasks, ELASTIC BLOCK STORE, Volumes, Snapshots, NETWORK & SECURITY, Security Groups, Elastic IPs, Placement Groups, Load Balancers, Key Pairs, Network Interfaces, AUTO SCALING, Launch Configurations, and Auto Scaling Groups. The main content area shows a table of EC2 instances. A single instance is listed with the following details:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP	Key Name	Monitoring
	i-7c54d176	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-54-68-142-18.us-w...	54.68.142.18	Thekey	dis

Below the table, a detailed view of the selected instance (i-7c54d176) is shown. It includes tabs for Description, Status Checks, Monitoring, and Tags. The Description tab is active, displaying the following information:

- Instance ID: i-7c54d176
- Instance state: running
- Instance type: t2.micro
- Private DNS: ip-172-31-39-148.us-west-2.compute.internal
- Private IP: 172.31.39.148
- Public DNS: ec2-54-68-142-18.us-west-2.compute.amazonaws.com
- Public IP: 54.68.142.18
- Elastic IP: -
- Availability zone: us-west-2b
- Security groups: launchconfig-t1, view roles

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Amazon EC2 Server Instances are virtual machines. An organization would set one up instead of hosting their own physical server. By using a virtual machine, they will not need the expertise of managing their own server hardware in house. They can also easily configure the server as it is needed. They can also only pay for what they use. Organizations can use EC2 instances with ELB to scale up or down as needed automatically.

Part 2 AWS Data Storage with S3

The screenshot displays the Amazon S3 console interface. The top navigation bar shows the 'Services' dropdown, 'Edit' button, and user information (Matthew Volkammer, Oregon, Support). The main content area is divided into two sections: 'All Buckets' and 'Transfers'.

The 'All Buckets' section shows a table of buckets. A single bucket named 'metapps' is listed with the following details:

Name	Storage Class	Size	Last Modified
Book1.xlsx	Standard	12.1 KB	Fri Nov 28 15:07:55 GMT-500 2014

The 'Transfers' section shows a progress bar for the upload of 'Book1.xlsx' to the 'metapps' bucket. The progress bar is labeled 'Done' and shows the upload status: 'Upload: Uploading Book1.xlsx to metapps'.

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S3 buckets are used to store and distributed files. An organization will benefit from an S3 bucket from ease of use and lower costs. It is easier to use and cheaper than setting up an ftp server on

a company's own hardware. It will also scale as needed. Organizations will only pay for what they need as files are uploaded and downloaded.

Part 3 AWS Elastic Beanstalk

The screenshot displays the AWS Elastic Beanstalk console interface. At the top, a navigation bar shows 'Services', 'Elastic Beanstalk', and 'neapps'. A blue information box states: 'Elastic Beanstalk is now creating your environment. When it has finished it will be running Sample Application.' Below this, the environment 'neapps' is selected, showing its URL 'neapps-env.elasticbeanstalk.com'. A left-hand navigation menu includes links for Dashboard, Configuration, Logs, Monitoring, Alarms, Events, and Tags. The main 'Overview' section features a large green checkmark icon indicating 'Health Green', with a 'Monitor' button. To the right, it shows 'Running Version' as 'Sample Application' with an 'Upload and Deploy' button, and 'Configuration' as '64bit Amazon Linux 2014.09 v1.0.9 running Node.js' with an 'Edit' button. A 'Recent Events' table at the bottom lists five informational events from 2014-11-28, including instance additions, environment launches, application availability, EC2 instance additions to an Auto Scaling Group, and CloudWatch alarm creation. The footer contains copyright information and links to Privacy Policy and Terms of Use.

Time	Type	Details
2014-11-28 15:22:51 UTC-0500	INFO	Adding instance 'i-1567e21f' to your environment.
2014-11-28 15:21:56 UTC-0500	INFO	Successfully launched environment: neapps-env
2014-11-28 15:21:55 UTC-0500	INFO	Application available at neapps-env.elasticbeanstalk.com.
2014-11-28 15:21:54 UTC-0500	INFO	Added EC2 instance 'i-1567e21f' to Auto Scaling Group 'aws-eb-e-xn6cxfymi-stack-AWSEBAutoScalingGroup-1T96HBAZZ32CE'.
2014-11-28 15:20:31 UTC-0500	INFO	Created CloudWatch alarm named: aws-eb-e-xn6cxfymi-stack-AWSEBCloudwatchAlarmLow-1OEDUAZZ8Q2C3

Elastic Beanstalk is a platform as a service that allows users to create application and push them to a definable set of AWS services, including EC2, S3, SNS, Cloudwatch, auto scaling and elastic load balancers. Elastic beanstalk will grow the application backend as needed. Elastic Beanstalk uses EC2 and S3 for computing and storage respectively. Using Elastic beanstalk would be easier to manage and scale than using EC2 and S3 independently.