

Prerequisites

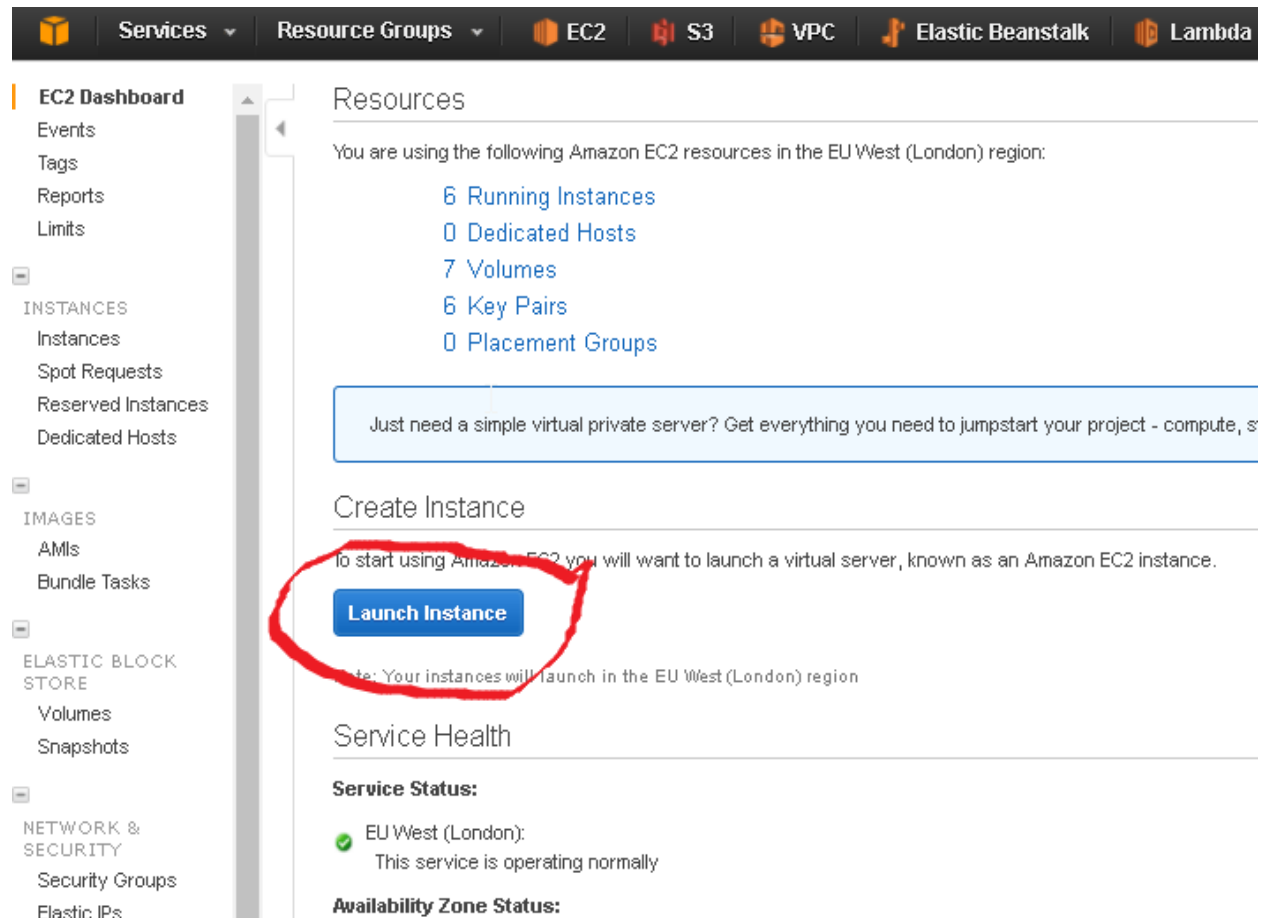
- Visual Studio 2015 or Higher
- Enable IIS Locally
Powershell >>
Import-Module ServerManager
install-windowsfeature web-server, web-webserver -IncludeAllSubFeature
install-windowsfeature web-mgmt-tools
- Web Deploy 3.6 ([download](#))
- Aws CLI (Not Mandatory)
- Nuget ([download](#)) to path C:\temp
- AWS Access Keys (Not Mandatory)
- Git Cli ([download](#))
- Aws [Login](#) (Use AD Cred)
- Siege Windows ([Download](#))

Lets Build & Package

- Clone [Source Code](#) to C:\src
- CMD(Administrator) >> `cd C:\src\sample-web-api`
- Restore packages `C:\temp\nuget.exe restore sample-web-api.sln`
- Build & Package the solution (Select MsBuild Path)
`"C:\Program Files (x86)\MSBuild\14.0\Bin\MSBuild.exe" sample-web-api.sln /verbosity:minimal /p:outputPath="%cd%/build" /p:DeployOnBuild=True,DeployIISAppPath="Default Web Site/"`









Lets Deploy To AWS EC2 Instance

Click on Launch EC2 Instance



The screenshot shows the AWS Management Console interface for the EC2 service. The top navigation bar includes links for Services, Resource Groups, EC2, S3, VPC, Elastic Beanstalk, and Lambda. The left sidebar contains a navigation menu with categories like EC2 Dashboard, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main content area is titled 'Resources' and shows a summary of EC2 resources in the EU West (London) region: 6 Running Instances, 0 Dedicated Hosts, 7 Volumes, 6 Key Pairs, and 0 Placement Groups. Below this, there is a section titled 'Create Instance' with a blue 'Launch Instance' button circled in red. The text below the button states: 'To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.' and 'Note: Your instances will launch in the EU West (London) region'. The 'Service Health' section at the bottom shows the 'Service Status' for 'EU West (London)' as 'This service is operating normally'.

Choose AMI

	Microsoft Windows Server 2016 with SQL Server Express - ami-b9e5f4dd
Windows	Microsoft Windows 2016 Datacenter edition, Microsoft SQL Server 2016 Express. [English] Root device type: ebs Virtualization type: hvm
	Microsoft Windows Server 2016 with SQL Server Web - ami-71e5f415
Windows	Microsoft Windows 2016 Datacenter edition, Microsoft SQL Server 2016 Web. [English] Root device type: ebs Virtualization type: hvm
	Microsoft Windows Server 2016 with SQL Server Standard - ami-b2e4f5d6
Windows	Microsoft Windows 2016 Datacenter edition, Microsoft SQL Server 2016 Standard. [English] Root device type: ebs Virtualization type: hvm
	Microsoft Windows Server 2012 R2 Base - ami-fc8e9f98
Windows Free tier eligible	Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English] Root device type: ebs Virtualization type: hvm
	Microsoft Windows Server 2012 R2 with SQL Server Express - ami-3cb3a258
Windows	Microsoft Windows Server 2012 R2 Standard edition, 64-bit architecture, Microsoft SQL Server 2016 Express edition. [English] Root device type: ebs Virtualization type: hvm
	Microsoft Windows Server 2012 R2 with SQL Server Web - ami-efb0a18b
Windows	Microsoft Windows Server 2012 R2 Standard edition, 64-bit architecture, Microsoft SQL Server 2016 Web edition. [English] Root device type: ebs Virtualization type: hvm
	Microsoft Windows Server 2012 R2 with SQL Server Standard - ami-e88e9f8c
Windows	Microsoft Windows Server 2012 R2 Standard edition, 64-bit architecture, Microsoft SQL Server 2016 Standard edition. [English] Root device type: ebs Virtualization type: hvm
	Microsoft Windows Server 2012 R2 with SQL Server Express - ami-a6b2a3c2

Choose an Instance Type

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Filter by: All instance types Current generation [Show/Hide Columns](#)

Currently selected: t2.small (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 2 GiB memory, EBS only)

	Family	Type	vCPUs ⓘ	Memory (GiB)
<input type="checkbox"/>	General purpose	t2.nano	1	0.5
<input type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1
<input checked="" type="checkbox"/>	General purpose	t2.small	1	2
<input type="checkbox"/>	General purpose	t2.medium	2	4

Configure Instance Details

Step 3: Configure Instance Details

No default VPC found. Select another VPC, or [create a new default VPC](#).

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of lower prices, or launch on-demand instances.

Number of instances ⓘ	<input type="text" value="1"/>	Launch into Auto Scaling Group ⓘ
Purchasing option ⓘ	<input type="checkbox"/> Request Spot instances	
Network ⓘ	<input type="text" value="vpc-4f5fd326 vpc.eu-west-2"/> Create new VPC No default VPC found. Create a new default VPC .	
Subnet ⓘ	<input type="text" value="subnet-348f3d4f private.eu-west-2-az1 eu-west-2-"/> Create new subnet 4084 IP Addresses available	
Auto-assign Public IP ⓘ	<input type="text" value="Use subnet setting (Disable)"/>	
IAM role ⓘ	<input type="text" value="ec2InstanceRole"/> Create new IAM role	
Shutdown behavior ⓘ	<input type="text" value="Stop"/>	
Enable termination protection ⓘ	<input type="checkbox"/> Protect against accidental termination	
Monitoring ⓘ	<input type="checkbox"/> Enable CloudWatch detailed monitoring Additional charges apply.	
Tenancy ⓘ	<input type="text" value="Shared - Run a shared hardware instance"/> Additional charges will apply for dedicated tenancy.	

Click on Advanced Details and add below powershell to the userdata select As text option

▼ Advanced Details

User data ⓘ	<input checked="" type="radio"/> As text <input type="radio"/> As file <input type="checkbox"/> Input is already base64 encoded
<pre><powershell> Set-ExecutionPolicy Unrestricted -Force New-Item -ItemType directory -Path 'C:\temp' # Install IIS and Web Management Tools</pre>	

<powershell>

Set-ExecutionPolicy Unrestricted -Force

Install IIS and Web Management Tools.

Import-Module ServerManager

install-windowsfeature web-server, web-webserver -IncludeAllSubFeature

install-windowsfeature web-mgmt-tools

Download And Install WebDeploymentAgent

\$url = "https://download.microsoft.com/download/0/1/D/01DC28EA-638C-4A22-A57B-4CEF97755C6C/WebDeploy_amd64_en-US.msi"

\$output = "C:\temp\webdeploy_3.6.msi"

\$start_time = Get-Date

\$wc = New-Object System.Net.WebClient

\$wc.DownloadFile(\$url, \$output)

Write-Output "Time taken: \$((Get-Date).Subtract(\$start_time).Seconds) second(s)"

msiexec /I \$output ADDLOCAL=all /passive /norestart LicenseAccepted="0" /I*
C:\temp\msDeployInstall.log

Start-Sleep -s 60

#Add To Domain

\$svc_account = "directory.zuto.cloud\svc_domain_join"

\$svc_pwd_secure = ConvertTo-SecureString "C5trNsulgQV0" -AsPlainText -Force

\$creds = New-Object -typename System.Management.Automation.PSCredential -argumentlist
(\$svc_account,\$svc_pwd_secure)

Add-Computer -DomainName directory.zuto.cloud -Credential \$creds -Restart

</powershell>

Add Storage

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type <small>(i)</small>	Device <small>(i)</small>	Snapshot <small>(i)</small>	Size (GiB) <small>(i)</small>	Volume Type <small>(i)</small>	IOPS <small>(i)</small>	Throughput (MB/s) <small>(i)</small>	Delete on Termination <small>(i)</small>	Encrypted <small>(i)</small>
Root	/dev/sda1	snap-00380db11d6eb730d	30	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Add Tags

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key <small>(127 characters maximum)</small>	Value <small>(255 characters maximum)</small>
Name	your-surname-application-name
Application	application-name
Owner	developer-name
Environment	dev
<p>Add another tag <small>(Up to 50 tags maximum)</small></p>	

Review Instance Launch

Security Groups : HTTP, rdp_inbound, ms_deploy are setup upfront manually

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can select an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☐ Create a new security group

☒ Select an **existing** security group

Security Group ID	Name
<input type="checkbox"/> sg-4250052b	allow_udp_dns_and_ssh
<input type="checkbox"/> sg-0f142166	awseb-e-nsehtmtpt3-stack-AWSEBLoadBalancerSecurityGroup-EMD2E6OF8YST
<input type="checkbox"/> sg-5a2a1f33	awseb-e-nsehtmtpt3-stack-AWSEBSecurityGroup-1C05C6W1V8K8S
<input type="checkbox"/> sg-fd165594	default
<input checked="" type="checkbox"/> sg-391e2b50	HTTP
<input type="checkbox"/> sg-976257fe	launch-wizard-10
<input type="checkbox"/> sg-0bcc9262	launch-wizard-7
<input type="checkbox"/> sg-06e3ca6f	launch-wizard-8
<input checked="" type="checkbox"/> sg-8d192ce4	ms_deploy
<input type="checkbox"/> sg-1c371575	quick-create-1
<input type="checkbox"/> sg-f9faab90	rancher-security-group
<input type="checkbox"/> sg-55a3f23c	RancherOS - HVM-v1-0-3-AutogenByAWSMP-
<input checked="" type="checkbox"/> sg-e4ce9e8d	rdp_inbound
<input type="checkbox"/> sg-d2f0a0bb	ssh_inbound

[Cancel](#)

[Previous](#)

[Review and Launch](#)

[Next: Configure Security Group](#)

Select a key pair

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more about removing existing key pairs from a public AMI.](#)

Proceed without a key pair

☒ I acknowledge that I will not be able to connect to this instance unless I already know the password built into this AMI.

Cancel

Launch Instances

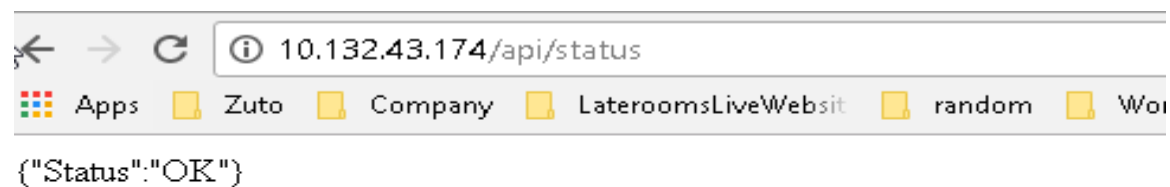
Wait for 10 mins

Deploy To Ec2

Via Command Line

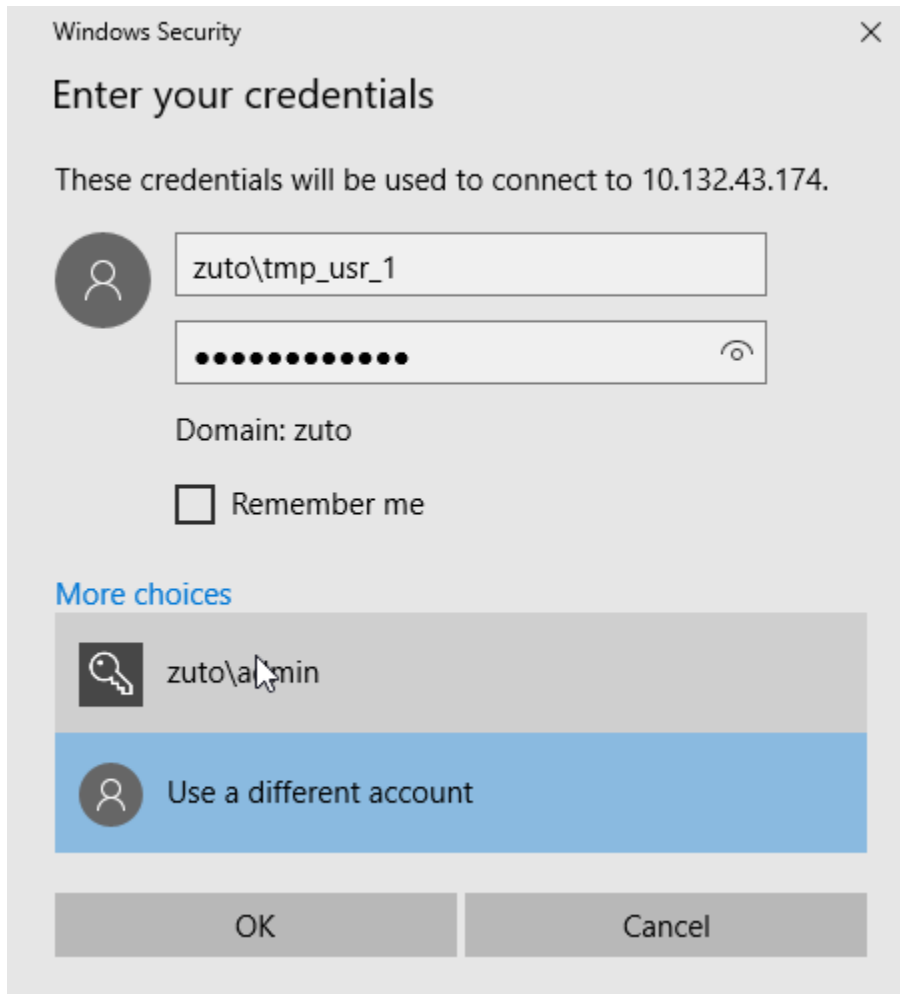
```
"C:\Program Files (x86)\IIS\Microsoft Web Deploy V3/msdeploy" -verb:sync -
source:package="%cd%/build/_PublishedWebsites/sample-web-api_Package/sample-web-api.zip" -
dest:auto,computerName=https://10.132.xx.xxx:8172/MsDeploy.axd,userName="zuto\deploy",password="9k4KRUFOTwr",authType=Basic -debug -verbose -allowUntrusted
```


Verify App Status



Trouble Shooting


RDP Access



Windows Security

Enter your credentials


These credentials will be used to connect to 10.132.43.174.




Domain: zuto

☐ Remember me

[More choices](#)

 zuto\admin

 Use a different account

Username : zuto\tmp_usr_1

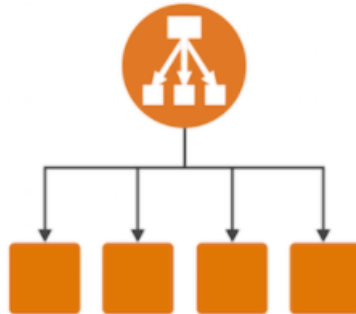
Password: p1CpBV7rNCus

ELB

Create ELB

re.

• Classic Load Balancer



A Classic Load Balancer makes routing decisions at either the transport layer (TCP/SSL) or the application layer (HTTP/HTTPS), and supports either EC2-Classic or a VPC.

Step 1: Define Load Balancer

Basic Configuration

This wizard will walk you through setting up a new load balancer. Begin by giving your new load balancer a unique name so that you can identify it you might create. You will also need to configure ports and protocols for your load balancer. Traffic from your clients can be routed from any load balancer to your EC2 instances. By default, we've configured your load balancer with a standard web server on port 80.

Load Balancer name:

Create LB Inside:

Create an internal load balancer: ☒ [\(what's this?\)](#)

Enable advanced VPC configuration: ☒

Listener Configuration:

Load Balancer Protocol	Load Balancer Port	Instance Protocol	Instance Port
<input type="text" value="HTTP"/>	<input type="text" value="80"/>	<input type="text" value="HTTP"/>	<input type="text" value="80"/>

Add

Select Subnets

You will need to select a Subnet for each Availability Zone where you wish traffic to be routed by your load balancer. If you have instances in only one Availability Zone, please select at least two Subnets in different Availability Zones to provide higher availability for your load balancer.

VPC vpc-4f5fd326 (10.132.0.0/16) | vpc.eu-west-2

Available subnets

Actions	Availability Zone	Subnet ID	Subnet CIDR	Name
	eu-west-2a	subnet-0f8d3f74	10.132.48.0/21	data.eu-west-2.az1
	eu-west-2a	subnet-4172c03a	10.132.0.0/20	public.eu-west-2.az1
	eu-west-2b	subnet-15cf0468	10.132.64.0/20	public.eu-west-2.az2
	eu-west-2b	subnet-1acf0467	10.132.112.0/21	data.eu-west-2.az2

Selected subnets

Actions	Availability Zone	Subnet ID	Subnet CIDR	Name
	eu-west-2a	subnet-348f3d4f	10.132.32.0/20	private.eu-west-2.az1
	eu-west-2b	subnet-f2ce05bf	10.132.96.0/20	private.eu-west-2.az2

Select Subnets

You will need to select a Subnet for each Availability Zone where you wish traffic to be routed by your load balancer. If you have instances in only one Availability Zone, please select at least two Subnets in different Availability Zones to provide higher availability for your load balancer.

VPC vpc-4f5fd326 (10.132.0.0/16) | vpc.eu-west-2

Available subnets

Actions	Availability Zone	Subnet ID	Subnet CIDR	Name
	eu-west-2a	subnet-0f8d3f74	10.132.48.0/21	data.eu-west-2.az1
	eu-west-2a	subnet-4172c03a	10.132.0.0/20	public.eu-west-2.az1
	eu-west-2b	subnet-15cf0468	10.132.64.0/20	public.eu-west-2.az2
	eu-west-2b	subnet-1acf0467	10.132.112.0/21	data.eu-west-2.az2

Selected subnets

Actions	Availability Zone	Subnet ID	Subnet CIDR	Name
	eu-west-2a	subnet-348f3d4f	10.132.32.0/20	private.eu-west-2.az1
	eu-west-2b	subnet-f2ce05bf	10.132.96.0/20	private.eu-west-2.az2

Step 2: Assign Security Groups

You have selected the option of having your Elastic Load Balancer inside of a VPC, which allows you to assign security groups to your load balancer. Please select the s

Assign a security group: ☐ Create a new security group
☒ Select an existing security group

Security	Name	Description
<input type="checkbox"/>	sg-4250052b allow_udp_dns_and_ssh	Allow UDP DNS traffic
<input type="checkbox"/>	sg-0f142166 awseb-e-nsehmtp3-stack-AWSEBLoadBalancerSecurityGroup-EMD2E6OF8YST	Load Balancer Security Group
<input type="checkbox"/>	sg-5a2a1f33 awseb-e-nsehmtp3-stack-AWSEBSecurityGroup-1C05C6W1V8K8S	VPC Security Group
<input type="checkbox"/>	sg-fd165594 default	default VPC security group
<input checked="" type="checkbox"/>	sg-391e2b50 HTTP	Ports Need To be open to access the web service
<input type="checkbox"/>	sg-07c0574c	

Step 4: Configure Health Check

Your load balancer will automatically perform health checks on your EC2 instance:

Ping Protocol	HTTP ▼
Ping Port	80
Ping Path	/api/status

Advanced Details

Response Timeout	<input type="text" value="5"/>	seconds
Interval	<input type="text" value="10"/>	seconds
Unhealthy threshold	<input type="text" value="2"/>	▼
Healthy threshold	<input type="text" value="3"/>	▼

Step 5: Add EC2 Instances

The table below lists all your running EC2 Instances. Check the boxes in the Select column to add those instances to this load balancer.

VPC vpc-4f5fd326 (10.132.0.0/16) | vpc.eu-west-2

<input type="checkbox"/>	Instance	Name	State	Security groups
<input type="checkbox"/>	i-0458231...	RancherOS	stopped	rancher-security-group
<input type="checkbox"/>	i-035ac3ab...	KarlWorkshop Test-env	running	awseb-e-nsehtmtpt3-sta
<input checked="" type="checkbox"/>	i-0081a6d...	sri-test-pvt	running	ms_deploy, rdp_inbound
<input type="checkbox"/>	i-09345f65...	tableau-wdc-host	running	launch-wizard-7
<input type="checkbox"/>	i-0c3f9daf8...	dns-recursor.eu-west-2.az1	running	allow_udp_dns_and_ssh
<input type="checkbox"/>	i-019d0ece...	dns-recursor.eu-west-2.az2	running	allow_udp_dns_and_ssh
<input type="checkbox"/>	i-0c77a6ad...	Test-Server	running	launch-wizard-8

Availability Zone Distribution

1 instance in eu-west-2a

- ☒ Enable Cross-Zone Load Balancing ⓘ
- ☒ Enable Connection Draining ⓘ seconds

Step 6: Add Tags

Apply tags to your resources to help organize and identify them.

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key	Value
<input type="text" value="Name"/>	<input type="text" value="ssunkari-elb-sample-web-api"/>
<input type="text" value="Owner"/>	<input type="text" value="ssunkari"/>

Create Tag

Verify

<input type="checkbox"/>	tableau-wdo-lb	tableau-wdo-lb-584528388....	vpc-4f5fd326	eu-west-2a	classic	August 15, 2017 at 11:46:11...
<input type="checkbox"/>	awseb-e-n-AWSEBLoa-1HN...	internal-awseb-e-n-AWSEBL...	vpc-4f5fd326	eu-west-2a, eu-west-2b	classic	August 21, 2017 at 3:13:43 ...
<input checked="" type="checkbox"/>	ssunkari-elb-sample-web-api	internal-ssunkari-elb-sample...	vpc-4f5fd326	eu-west-2a, eu-west-2b	classic	August 22, 2017 at 10:27:2...

Load balancer: **ssunkari-elb-sample-web-api**

Description **Instances** Health Check Listeners Monitoring Tags

Connection Draining: Enabled, 300 seconds [\(Edit\)](#)

[Edit Instances](#)

Instance ID	Name	Availability Zone	Status	Actions
i-0081a6d6a69465789	sri-test-pvt	eu-west-2a	InService ⓘ	Remove from Load Balancer

Hit the ELB DNS Address

← → ↺ ⓘ internal-ssunkari-elb-sample-web-api-2000354942.eu-west-2.elb.amazonaws.com/api/status

Apps Zuto Company LateroomsLiveWebsite random Work LateroomsTestWebsite *

{"Status": "OK"}

AMI

Create AMI

<input checked="" type="checkbox"/>	sri-test-p	Connect	i-0081a6d6a69465...	t2.micro	eu
<input type="checkbox"/>	dns-recu	Get Windows Password	i-019d0ece5131d4...	t2.small	eu
<input type="checkbox"/>	KarlWor	Launch More Like This	i-035ac3ab74caeaefd	t2.small	eu
<input type="checkbox"/>	tableau-	Instance State	i-09345f6564539b4...	t2.small	eu
<input type="checkbox"/>	dns-recu	Instance Settings	i-0e2f04a89447a85fa	t2.small	eu
<input type="checkbox"/>	Test-Ser	Image	Create Image		eu
<input type="checkbox"/>	Rancher	Networking	Bundle Instance (instance store)		eu
<input type="checkbox"/>		CloudWatch Monitoring	i-0402b17108012...	t2.small	eu

Create Image

Instance ID

i-0081a6d6a69465789

Image name

ssunkari-sample-web-api-ami

Image description

Sample Web App AMI required for Launch Configurat

No reboot

☐

Instance Volumes

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/sda1	snap-0352d2af96dc20c0d	30	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Total size of EBS Volumes: 30 GiB

When you create an EBS image, an EBS snapshot will also be created for each of the above volumes.

Cancel

Create Image

ASG

Create Auto Scaling Group

To create an Auto Scaling group, you will first need to choose a template that your Auto S a launch configuration or create a new one, and then apply it to your group.

Later, if you want to use a different template, you can create another launch configuration you can update the software that your group uses when it launches new instances.

- ☒ Create a new launch configuration
- ☐ Create an Auto Scaling group from an existing launch configuration

Create Launch Configuration

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You

Quick Start

My AMIs


AWS Marketplace

Community AMIs

▼ Ownership

☒ Owned by me
 ☐ Shared with me

▼ Architecture


ssunkari-sample-web-api-ami - ami-6f62720b
 Sample Web App AMI required for Launch Configuration
 Root device type: ebs Virtualization type: hvm Owner: 813630055421

Create Launch Configuration

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation [Show/Hide Columns](#)

Currently selected: t2.micro (Variable ECU's, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs
<input type="checkbox"/>	General purpose	t2.nano	1
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1

Create Launch Configuration

Name ⓘ	ssunkari-sample-web-api-lc
Purchasing option ⓘ	<input type="checkbox"/> Request Spot Instances
IAM role ⓘ	ec2InstanceRole ▼
Monitoring ⓘ	<input type="checkbox"/> Enable CloudWatch detailed monitoring Learn more

▼ Advanced Details

Kernel ID ⓘ	Use default ▼
RAM Disk ID ⓘ	Use default ▼
User data ⓘ	<input checked="" type="radio"/> As text <input type="radio"/> As file <input type="checkbox"/> Input is already base64 encoded <div>(Optional)</div>
IP Address Type ⓘ	<input type="radio"/> Only assign a public IP address to instances launched in the default VPC and subnet. (default) <input type="radio"/> Assign a public IP address to every instance. <input checked="" type="radio"/> Do not assign a public IP address to any instances. Note: this option only affects instances launched into an Amazon VPC

Create Launch Configuration

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes.
<https://docs.aws.amazon.com/console/ec2/launchinstance/storage> about storage options in Amazon EC2.

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput ⓘ	Delete on Termination ⓘ	Encrypted ⓘ
Root	/dev/sda1		30	General Purpose (SSD) ▼	100 / 3000	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Add New Volume								

Add HTTP, rdp_inbound, ms_deploy Security Groups

Create Launch Configuration

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a **new** security group

☐ Select an **existing** security group

Security group name:

Description:

VPC: [Create new VPC](#)

Type	Protocol	Port Range	Source
HTTP	TCP	80	Custom IP <input type="text" value="sg"/>

[Add Rule](#)

No default VPC found
Select another VPC, or [contact AWS Support](#)

Warning
You will not be able to connect to this instance unless you don't have port(s) 3389 open.

- sg-4250052b - allow_udp_dns_and_ssh
- sg-49c2f620 - awseb-e-fwcisfb8yf-stack-AWSEBLoadBalancerSecurityGroup-1I9HPGWTAV5QW
- sg-48c2f621 - awseb-e-fwcisfb8yf-stack-AWSEBSecurityGroup-1DCZ8U08YB0NC
- sg-0f142166 - awseb-e-nsehtnmtpt3-stack-AWSEBLoadBalancerSecurityGroup-EMD2E6OF8YST
- sg-5a2a1f33 - awseb-e-nsehtnmtpt3-stack-AWSEBSecurityGroup-1C05C6W1V8K8S
- sg-cac3f7a3 - awseb-e-qnp5c53v7-stack-AWSEBLoadBalancerSecurityGroup-3MA5E4K62SKE
- sg-02cdf96b - awseb-e-qnp5c53v7-stack-AWSEBSecurityGroup-1D8E61BKVLKD3
- sg-fd165594 - default
- sg-391e2b50 - HTTP

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more about removing existing key pairs from a public AMI.](#)

☒ I acknowledge that I will not be able to connect to this instance unless I already know the password built into this AMI.

[Cancel](#)

[Create launch configuration](#)

Ignore the VPC Warnings

Create Auto Scaling Group

[Cancel and Exit](#)


No default VPC found


Select another VPC, or [contact AWS Support](#) if you want to create a new default VPC.

[Don't show me this again](#)



Launch Configuration ⓘ ssunkari-sample-web-api-launch-config

Group name ⓘ ssunkari-sample-web-api-asg

Group size ⓘ Start with instances

Network ⓘ vpc-4f5fd326 (10.132.0.0/16) | vpc.eu-west-2  [Create new VPC](#)

Subnet ⓘ

- subnet-348f3d4f(10.132.32.0/20) | private.eu-west-2, az1 | eu-west-2a 
- subnet-f2ce05bf(10.132.96.0/20) | private.eu-west-2, az2 | eu-west-2b 

[Create new subnet](#)

No instances in this Auto Scaling group will be assigned a public IP address. ⓘ

▼ Advanced Details

Load Balancing ⓘ ☒ Receive traffic from one or more load balancers [Learn about Elastic Load Balancing](#)

Classic Load Balancers ⓘ ssunkari-elb-sample-web-api 

Target Groups ⓘ

Health Check Type ⓘ ☒ ELB ☐ EC2

Health Check Grace Period ⓘ seconds

Monitoring ⓘ Amazon EC2 Detailed Monitoring metrics, which are provided at 1 minute frequency, are not enabled for the launch configuration sample-web-api. Instances launched from it will use Basic Monitoring metrics, provided at 5 minute frequency. [Learn more](#)

Instance Protection ⓘ

Add Scaling Policy

Create Auto Scaling Group

You can optionally add scaling policies if you want to adjust the size (number of instances) of your group automatically: of instances or a percentage of the existing group size, or you can set the group to an exact size. When the alarm trig

- ☐ Keep this group at its initial size
- ☒ Use scaling policies to adjust the capacity of this group

Scale between and instances. These will be the minimum and maximum size of your group.

Scale Group Size

Name:

Metric type:

Target value:

Instances need: seconds to warm up after scaling

Disable scale-in: ☐

[Scale the Auto Scaling group using step or simple scaling policies](#) ⓘ

Tag New Instances

Create Auto Scaling Group

A tag consists of a case sensitive key-value pair that you can use to identify your group. For example, you could define a tag with Key = Environment and Value = Production. You can optionally choose to apply these tags to instances in the group when they launch. [Learn more](#).

Key	Value	Tag New Instances ⓘ	
<input type="text" value="Name"/>	<input type="text" value="ssunkari-sample-web-api"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
<input type="text" value="Application"/>	<input type="text" value="sample-web-api"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
<input type="text" value="Owner"/>	<input type="text" value="Ssunkari"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
<input type="text" value="Environment"/>	<input type="text" value="dev"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
<input type="button" value="Add tag"/> 46 remaining			

Verify ASG

[Create Auto Scaling group](#)
[Actions](#)

Filter:
1 to 3 of 3 Auto Scaling Groups

<input type="checkbox"/>	Name	Launch Configuration	Instances
<input checked="" type="checkbox"/>	ssunkari-sample-web-api-asg	ssunkari-sample-web-a...	1
<input type="checkbox"/>	awseb-e-fwcisfb8yf-stack-AWSEBAutoScalingGroup-OBZ49E0B56B0	awseb-e-fwcisfb8yf-sta...	1
<input type="checkbox"/>	awseb-e-nsehmrmpt3-stack-AWSEBAutoScalingGroup-194GM2GPP432U	awseb-e-nsehmrmpt3-st...	1

Auto Scaling Group: ssunkari-sample-web-api-asg

[Details](#)
[Activity History](#)
[Scaling Policies](#)
[Instances](#)
[Monitoring](#)
[Notifications](#)
[Tags](#)
[Schedule](#)

[Actions](#)

Filter: [Any Health Status](#) [Any Lifecycle State](#)

1 to 1 of 1 Instances

<input type="checkbox"/>	Instance ID	Lifecycle	Launch Configuration Name	Availability Zone	Health State
<input type="checkbox"/>	i-0f43a617d08074b27	InService	ssunkari-sample-web-api-launch-config	eu-west-2b	Healthy

Verify ELB Should have

[Create Load Balancer](#)
[Actions](#)

Filter:
1

<input type="checkbox"/>	Name	DNS name	State	VPC ID	Avail
<input type="checkbox"/>	tableau-wd0-lb	tableau-wd0-lb-584528388....		vp0-4f5fd326	eu-wk
<input type="checkbox"/>	awseb-e-n-AWSEBLoa-1HNP6RMWDMHRL	internal-awseb-e-n-AWSEBL...		vp0-4f5fd326	eu-wk
<input checked="" type="checkbox"/>	ssunkari-elb-sample-web-api	internal-ssunkari-elb-sample-...		vp0-4f5fd326	eu-wk
<input type="checkbox"/>	awseb-e-f-AWSEBLoa-1ELRJ6SCFKN4F	internal-awseb-e-f-AWSEBL...		vp0-4f5fd326	eu-wk
<input type="checkbox"/>	awseb-e-m-AWSEBLoa-JBH0GLHICFP0	internal-awseb-e-m-AWSEB...		vp0-4f5fd326	eu-wk

Load balancer: ssunkari-elb-sample-web-api

[Description](#)
[Instances](#)
[Health Check](#)
[Listeners](#)
[Monitoring](#)
[Tags](#)

Connection Draining: Enabled, 300 seconds ([Edit](#))

[Edit Instances](#)

Instance ID	Name	Availability Zone	Status	Actions
i-0081a6d6a69465789	sri-test-pvt	eu-west-2a	InService ⓘ	Remove from Load Balancer
i-0f43a617d08074b27	ssunkari-sample-web-api-asg	eu-west-2b	InService ⓘ	Remove from Load Balancer

Load Testing

- Extract siege-windows-3.0.5.zip to C:\siege-windows
- cd siege-windows
- siege -c50 -t300s http://elb-dns /api/text`