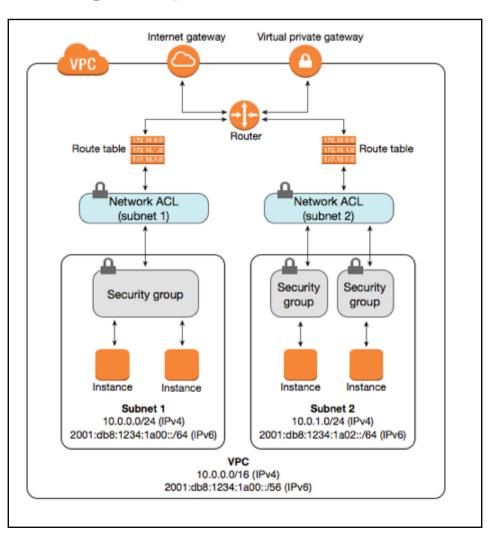
# **Chapter 1: Getting Started with AWS Networking Components**





# Sign In or Create an AWS Account

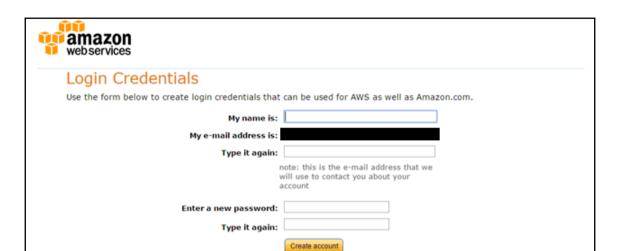
What is your email (phone for mobile accounts)?

E-mail or mobile number:

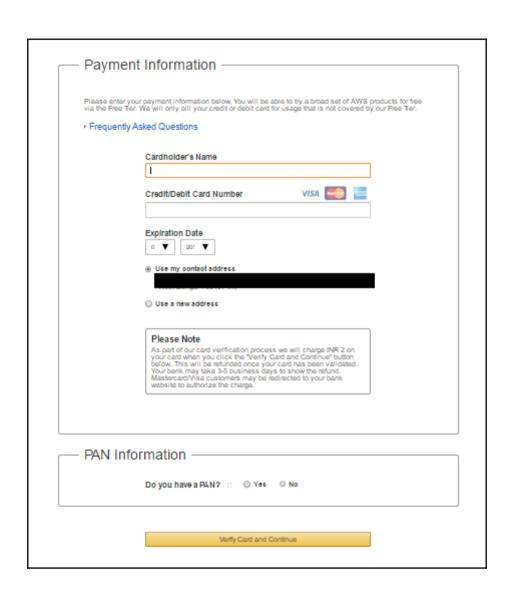
- I am a new user.
- I am a returning user and my password is:

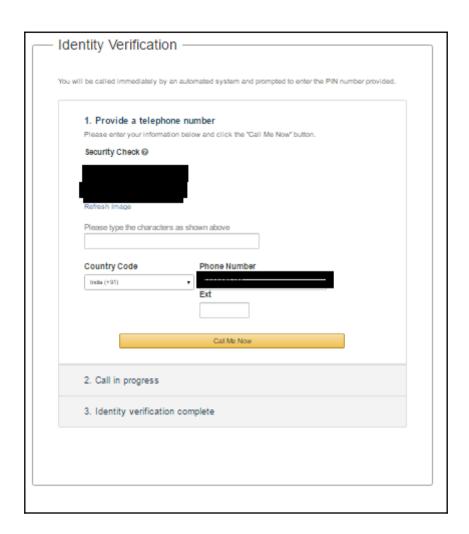
Sign in using our secure server

Forgot your password?



Contact Information			
Company Account			
" Required Fields			
Full Name*			
Company Name*			
Country*	United States		
Address*	Street, P.O. Box, Company Name, c/o		
	Apartment, suite, unit, building, floor, etc.		
City*			
State / Province or Region*			
Postal Code*			
Phone Number*			
Security Check ©	ma2 m 2d		
	Refresh Image		
	Please type the characters as shown above		
AWA Contrary to recent			
AW \$ Customer Agreement  Check here to indicate that you have read and agree to the terms of the AWS Customer Agreement			
Create Account and Continue			





## Support Plan

AWS Support offers a selection of plans to meet your needs. All plans provide 24x7 access to customer service, AWS documentation, whitepapers, and support forums. For access to technical support and additional resources to help you plan, deploy, and optimize your AWS environment, we recommend selecting a support plan that best aligns with your AWS usage.

All customers receive free Basic Support.

#### Basic Support -

#### Basic

Description: Customer Service for account and billing questions and access to the AWS Community Forums.

Price: Included

#### Developer

Use case: Experimenting with AWS

Description: One primary contact may ask technical questions through Support Center and

get a response within 12-24 hours during local business hours.

Price: Starts at \$29/month (scales based on usage)

#### Business

Use case: Production use of AWS

Description: 24x7 support by phone and chat, 1-hour response to urgent support cases, and help with common third-party software. Full access to AWS Trusted Advisor for optimizing your AWS infrastructure, and access to the AWS Support API for automating your support cases and retrieving Trusted Advisor results.

Price: Starts at \$100/month (scales based on usage)

To explore all features and benefits of AWS Support, including plan comparisons and pricing samples, click here.

Continue

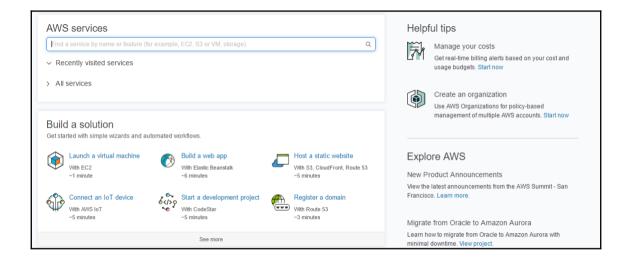
## Registration Confirmation

### Welcome to Amazon Web Services

Thank you for creating an Amazon Web Services Account. We are activating your account, which should only take a few minutes. You will receive an email when this is complete.

Sign In to the Console

Contact Sales



#### ▼ Close Account

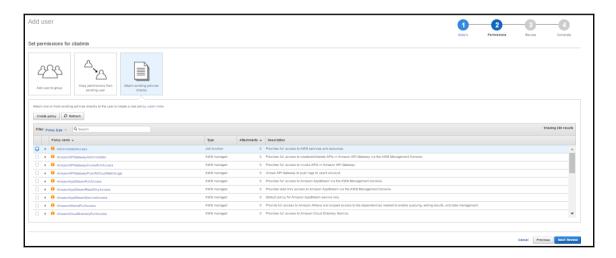
☑ I understand that by clicking this checkbox, I am willing to close my AWS account. Monthly usage of certain AWS services is calculated and billed at the beginning of the following month. If you have used these types of services this month, then at the beginning of next month you will receive a bill for usage that occurred prior to termination of your account. If you own a Reserved Instance for which you have elected to pay in monthly installments, when your account is closed you will continue to be billed your monthly recurring payment until the Reserved Instance is sold on the Reserved Instance Marketplace or it expires.

**Close Account** 

IAM users sign-in link:





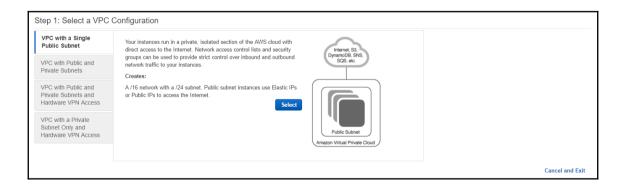


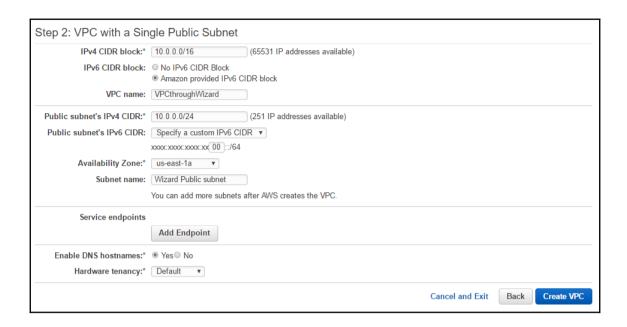


User name Acce	ss key ID Secret ac	cess key Console login link
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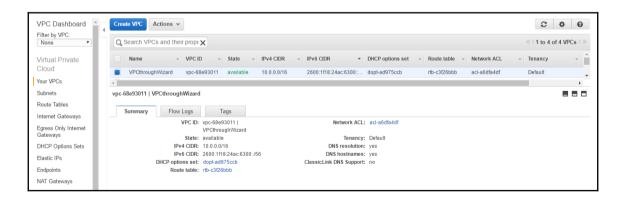




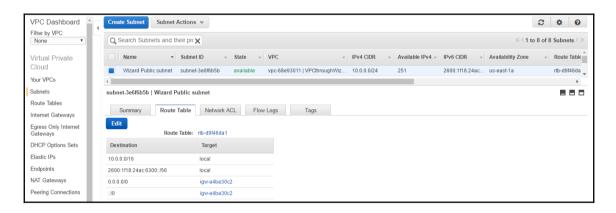


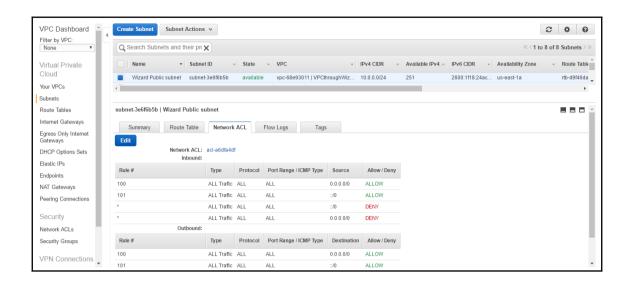


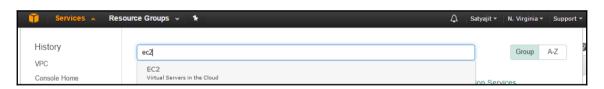


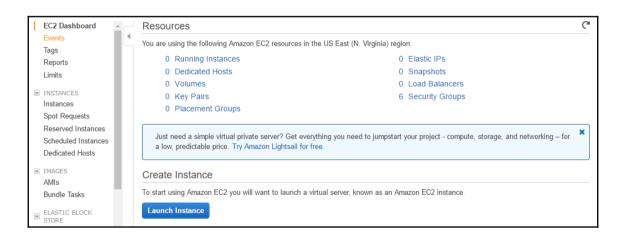


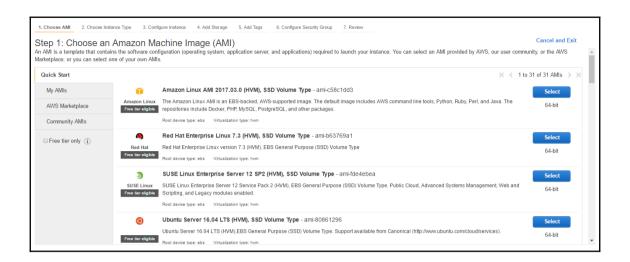


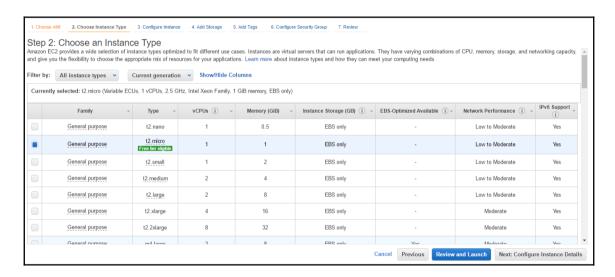


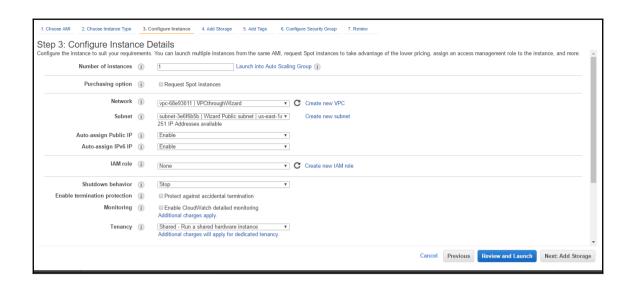




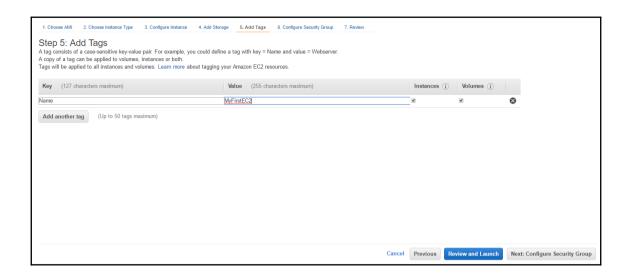


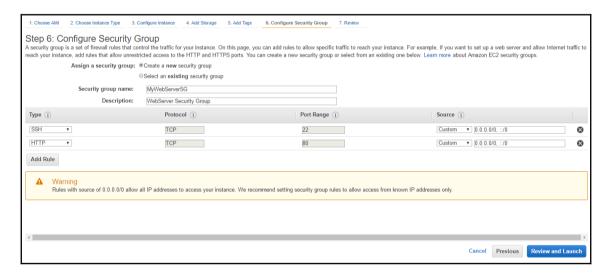


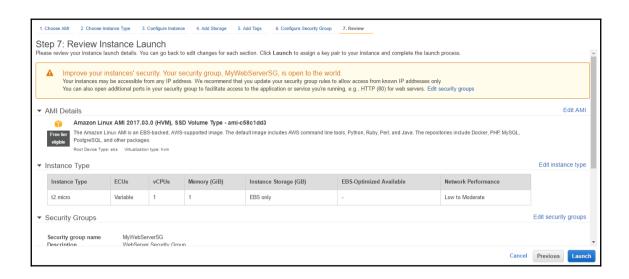


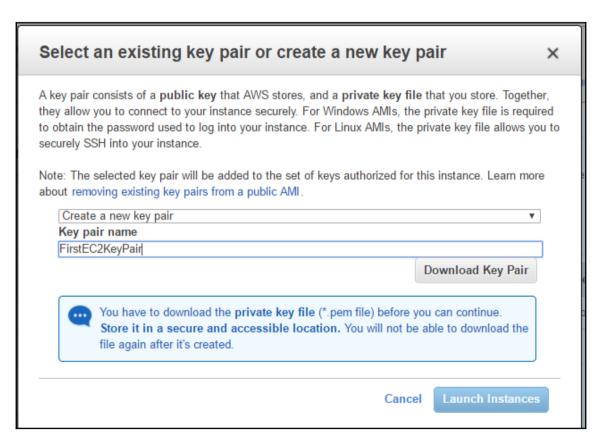




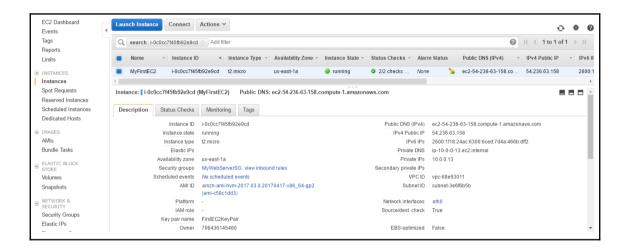


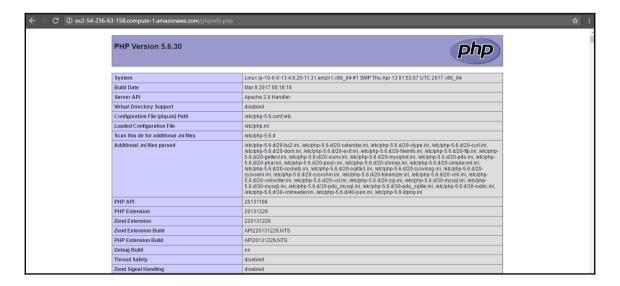


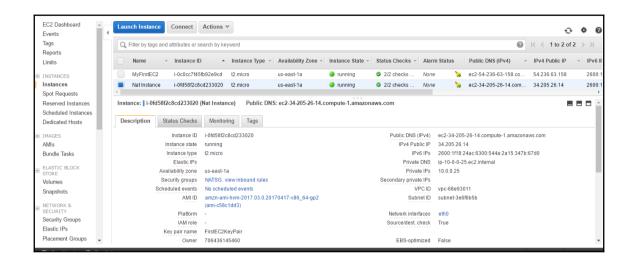












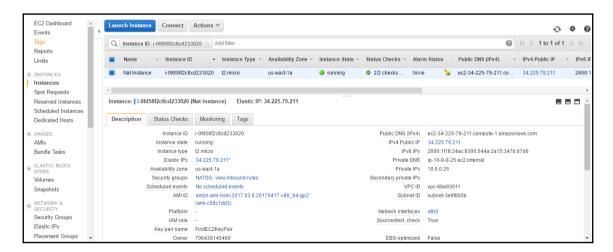


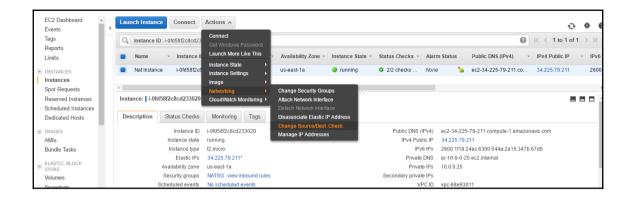






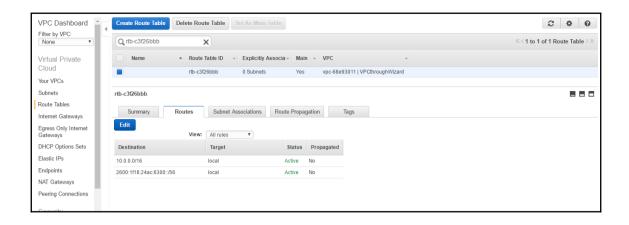


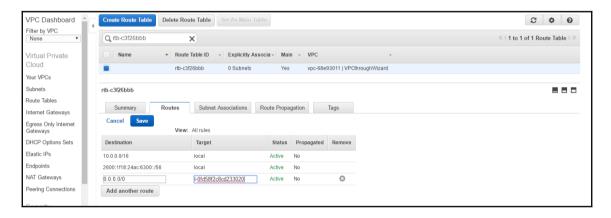




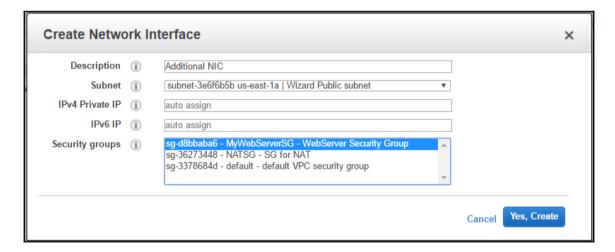


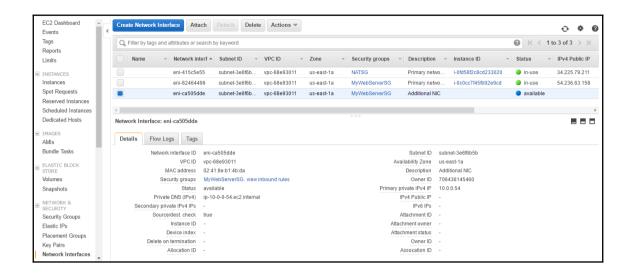












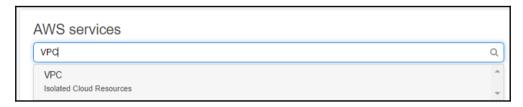


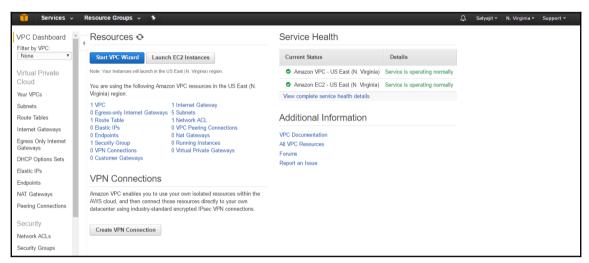




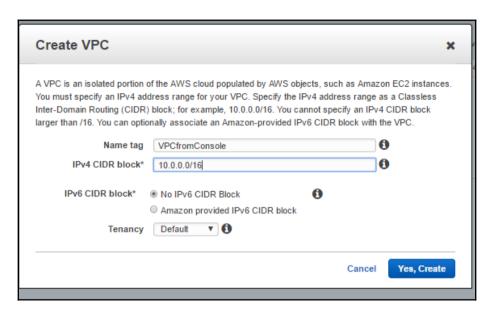
C:\>aws configure
AWS Access Key ID:
AWS Secret Access Key:
Default region name:
Default output format:

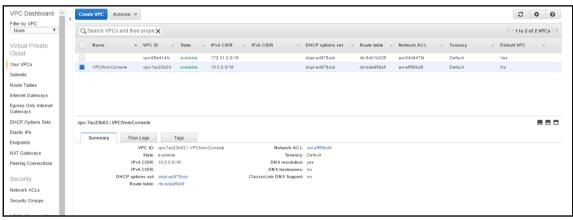
# **Chapter 2: Building Your Own Custom VPC**

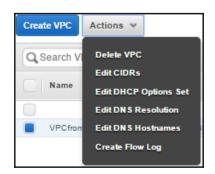


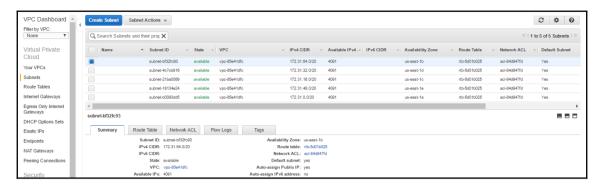




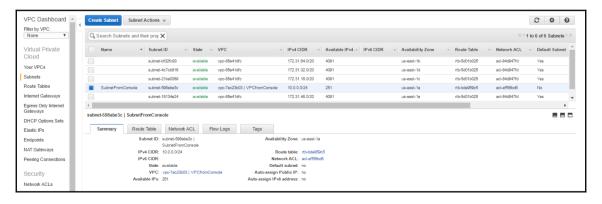


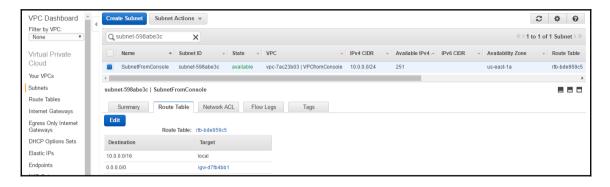


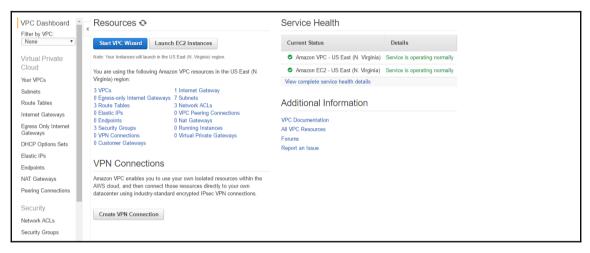


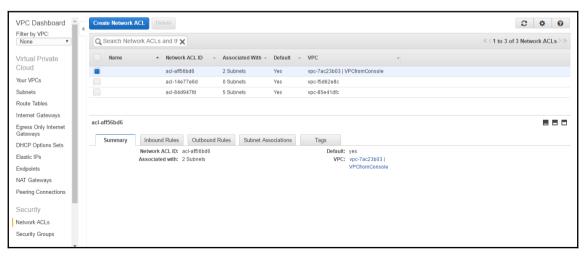


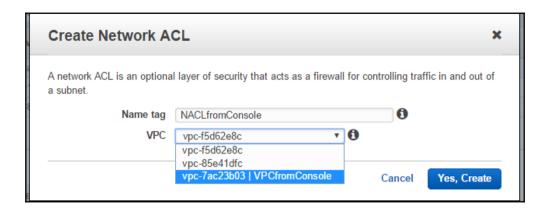


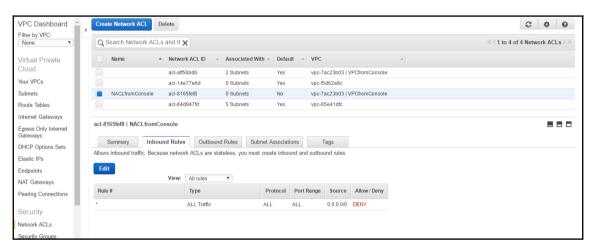




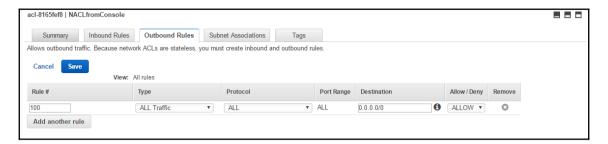




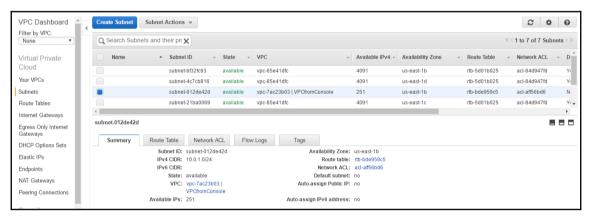


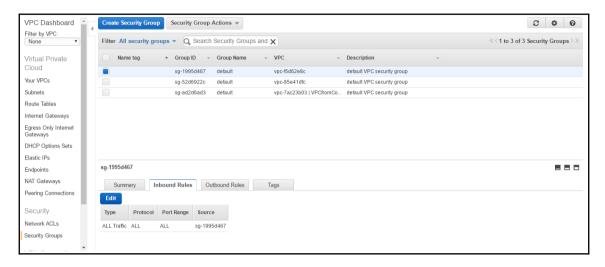


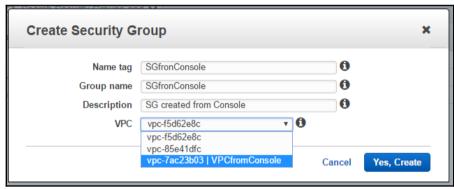


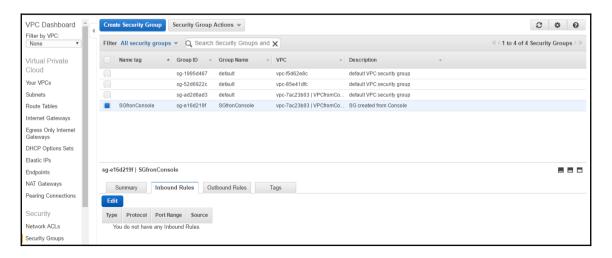


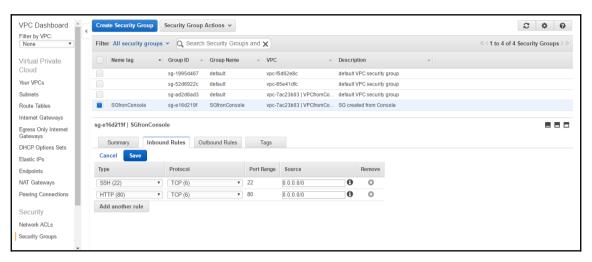


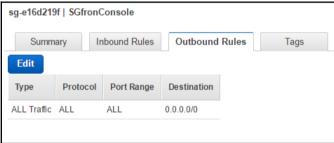


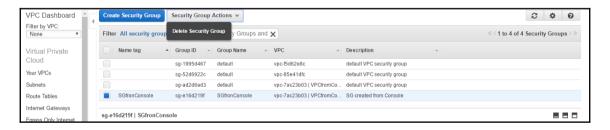




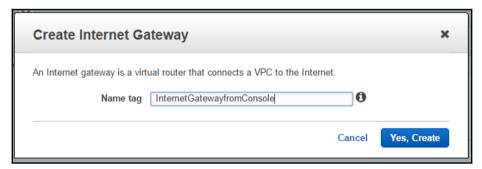


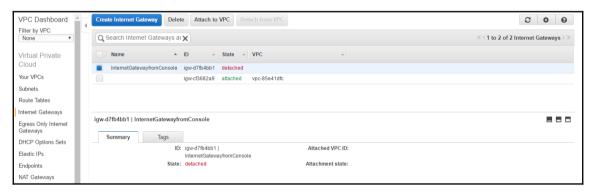


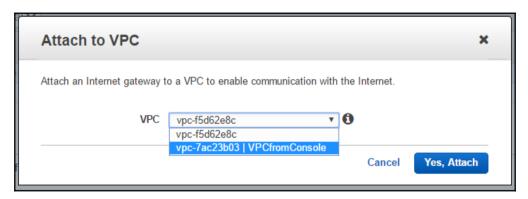




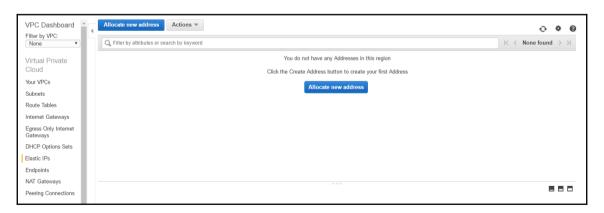












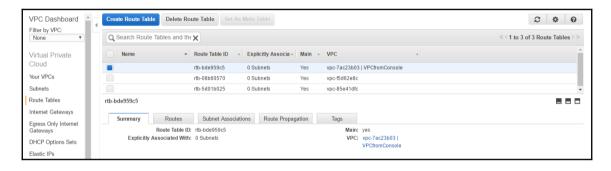


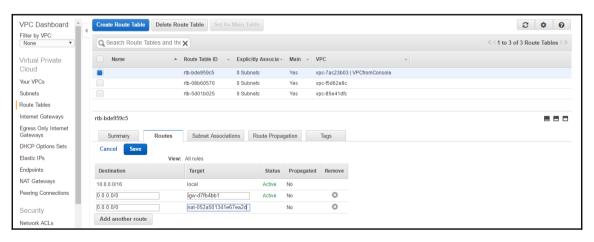






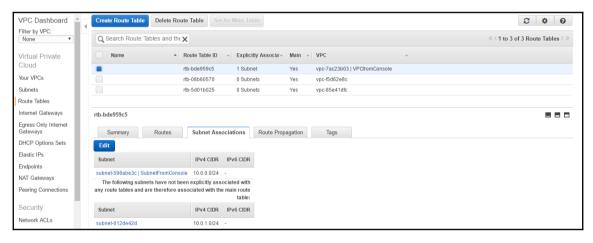


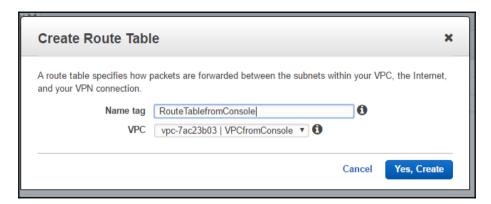


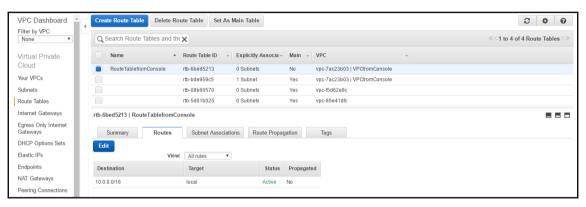




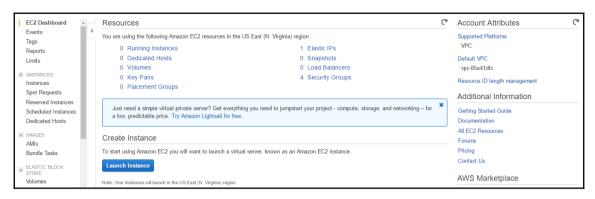


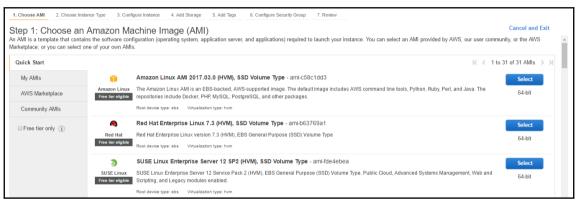


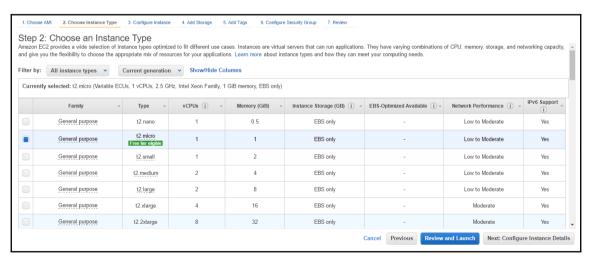




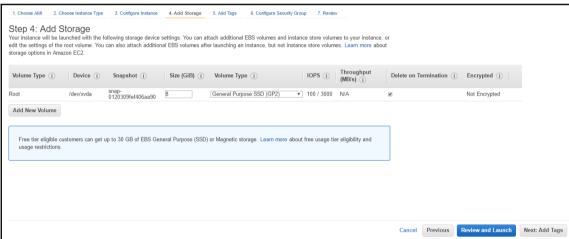








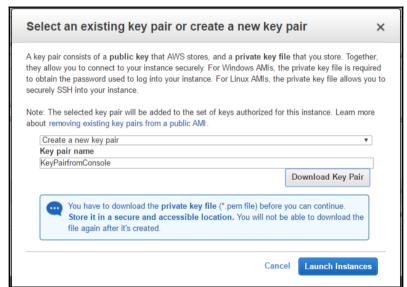


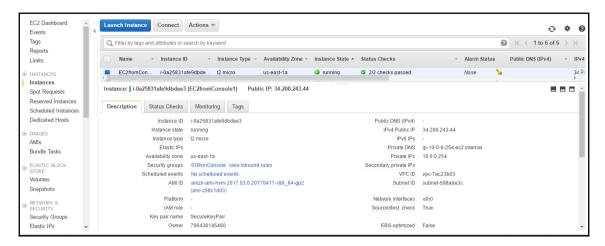


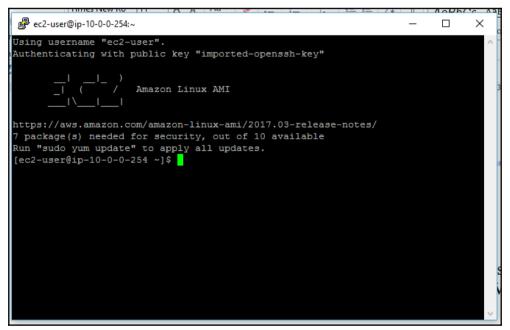






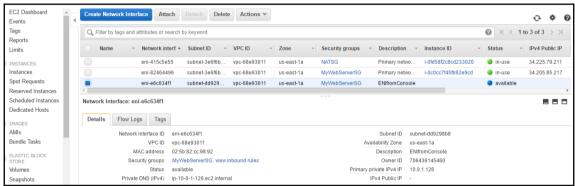




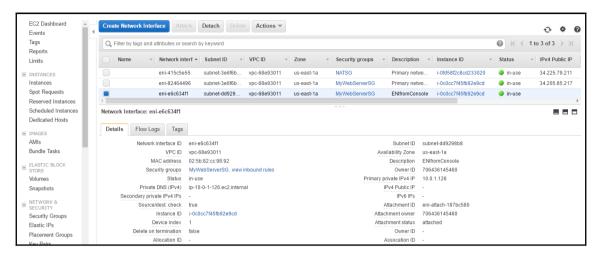


## **Chapter 3: VPC Advanced Components**



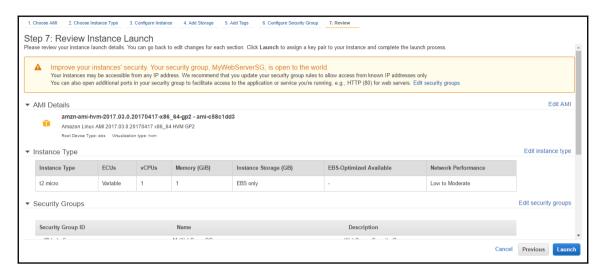


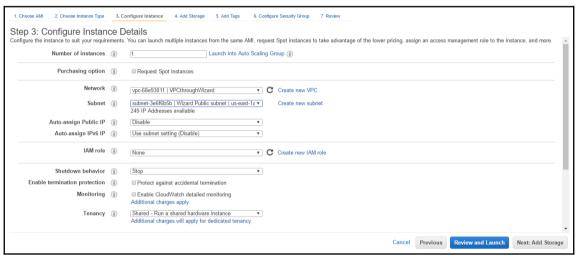




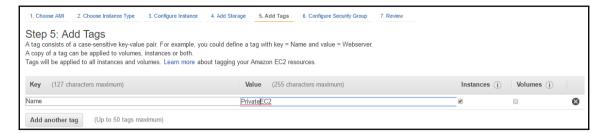


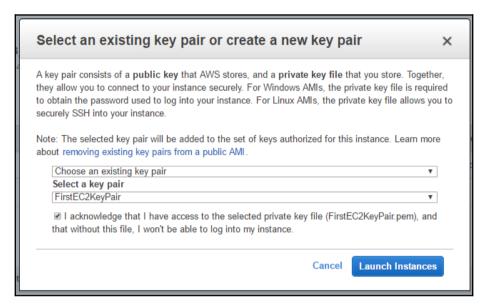




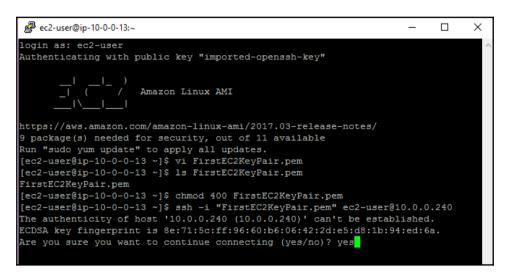


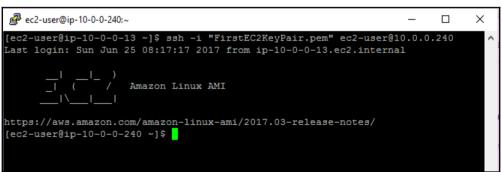




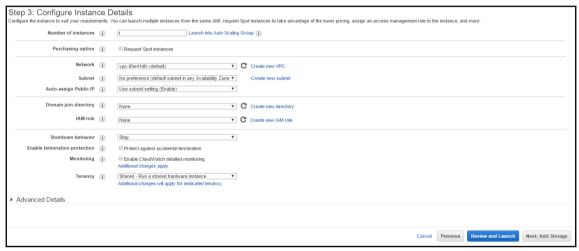






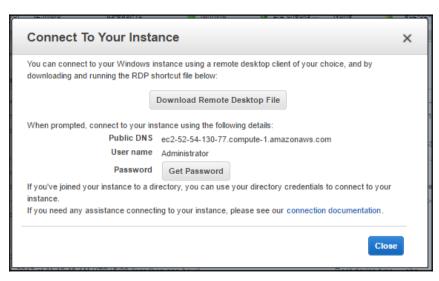


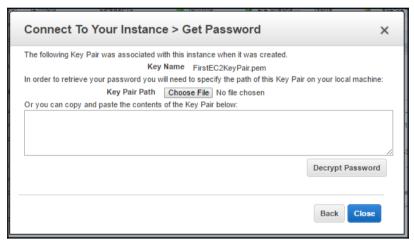




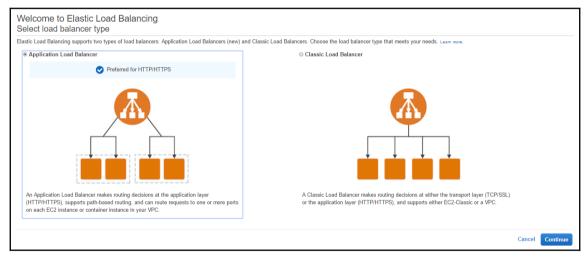


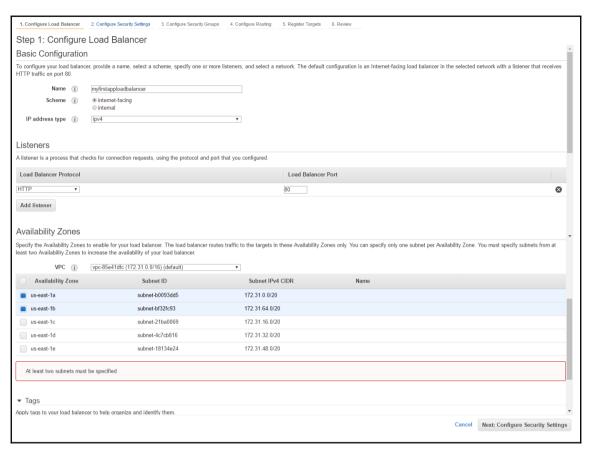






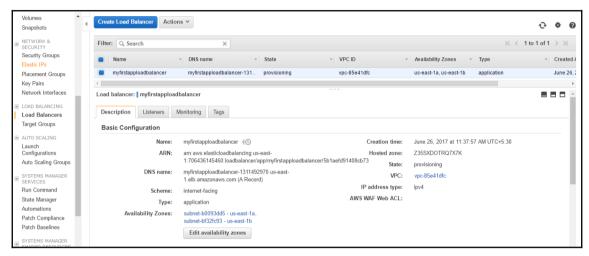


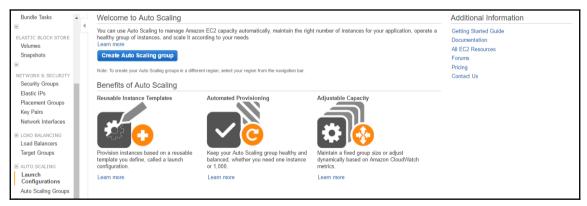


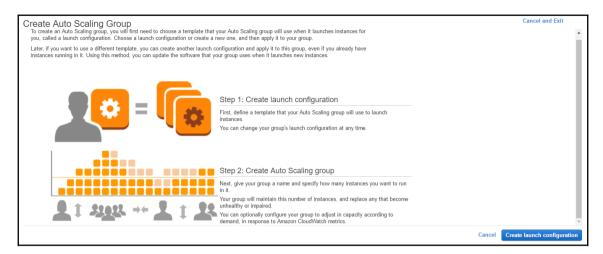


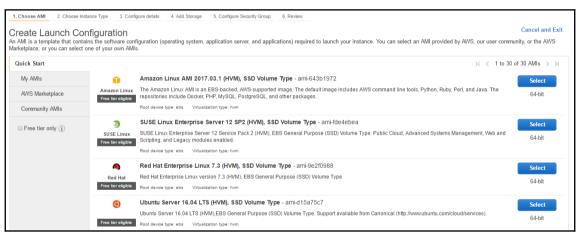


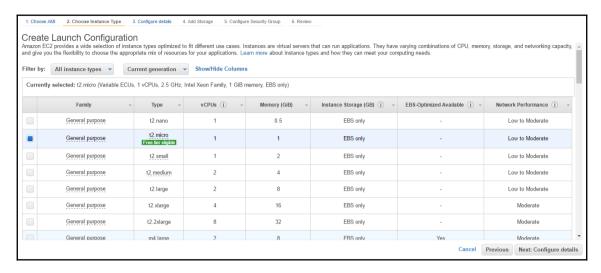








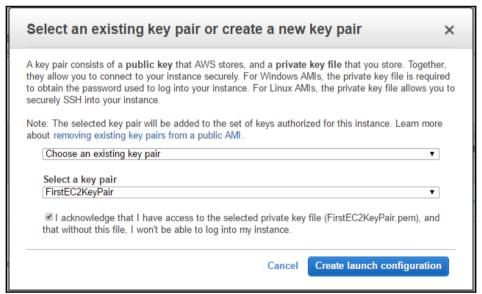


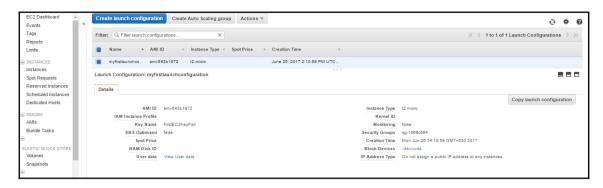


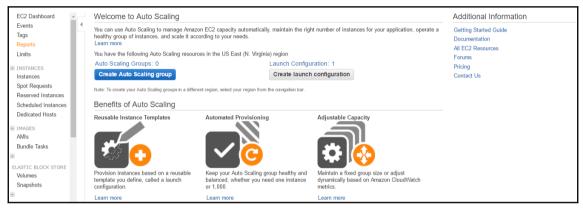




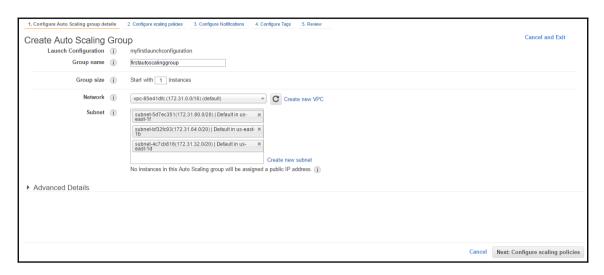


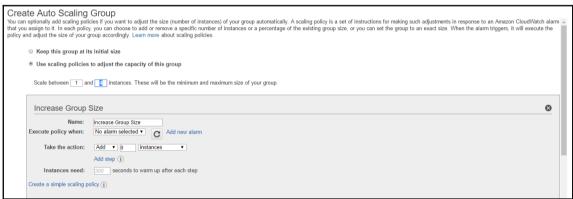


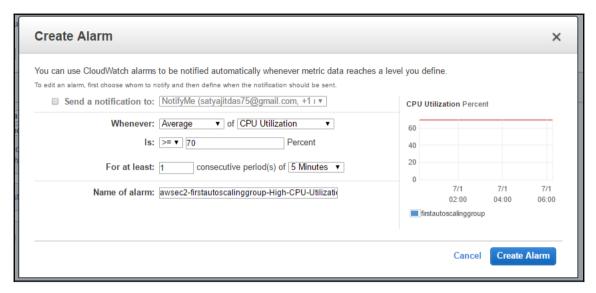


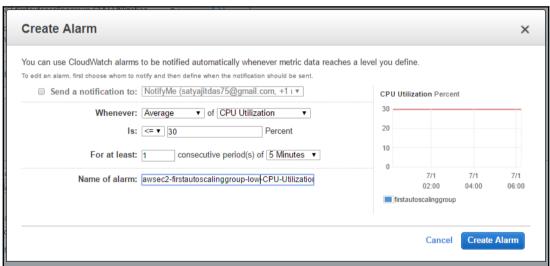




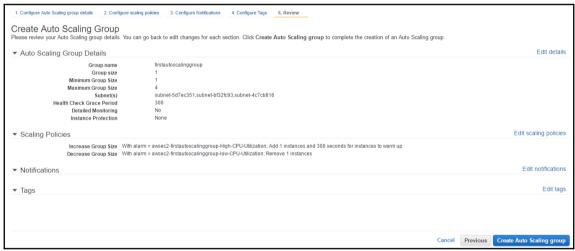


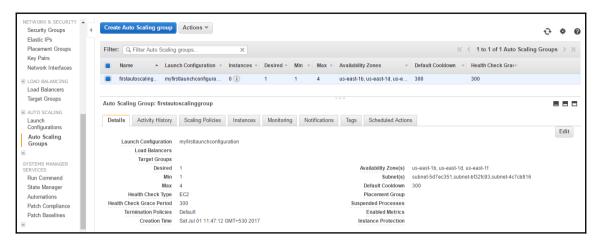


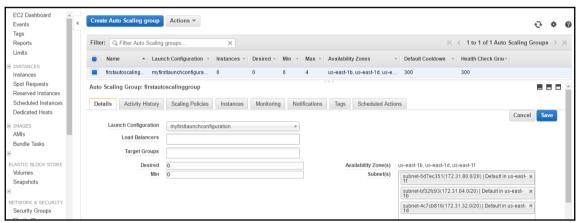




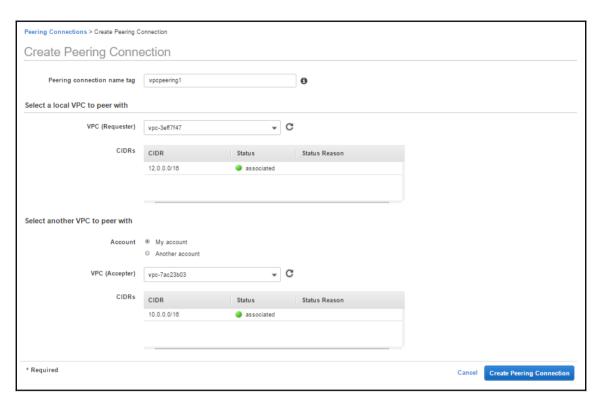














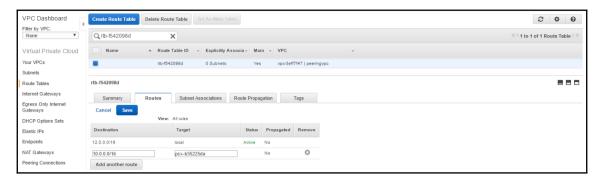


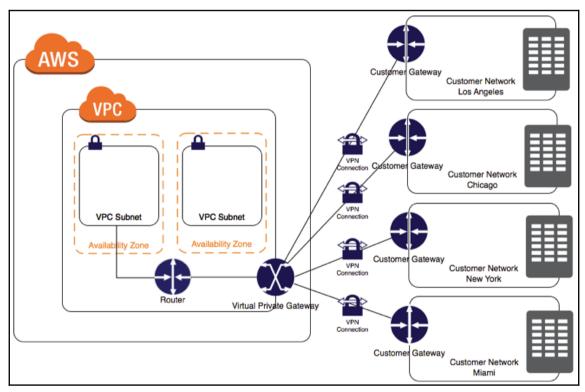










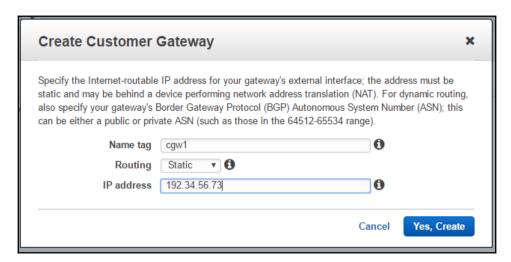




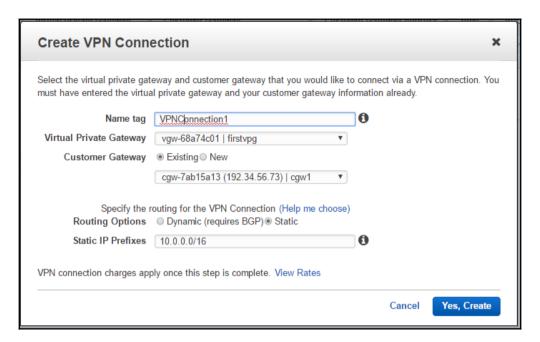


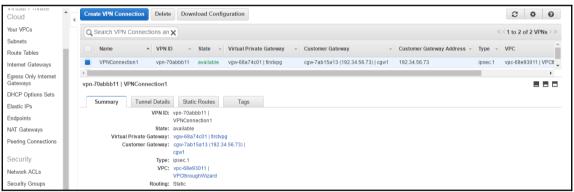










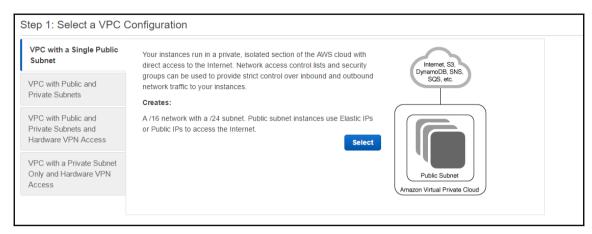


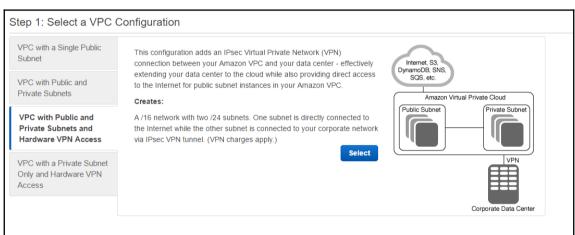
## **Chapter 4: Configuring Global Scale Infrastructure**

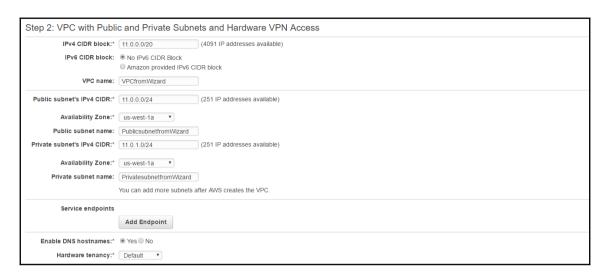


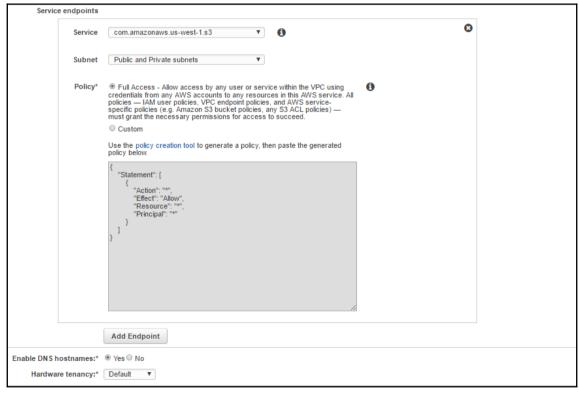




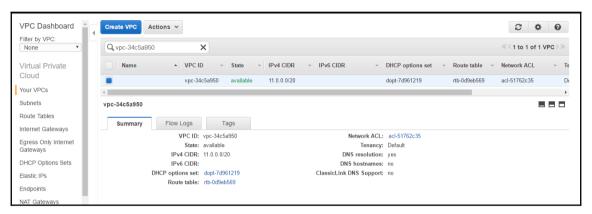


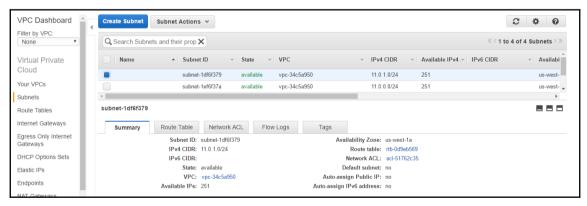


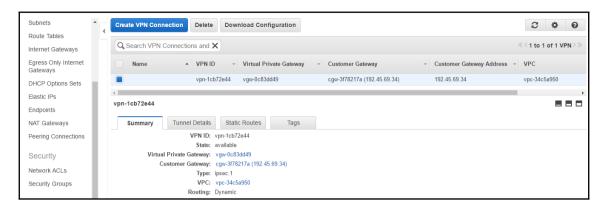


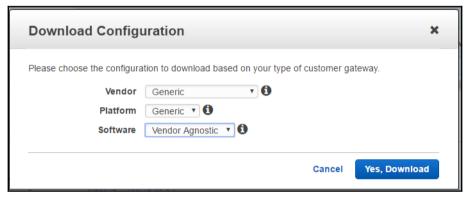




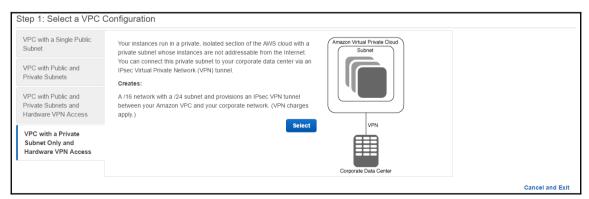


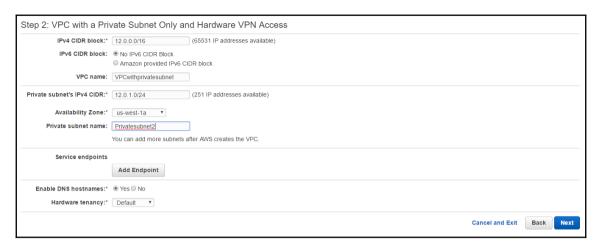






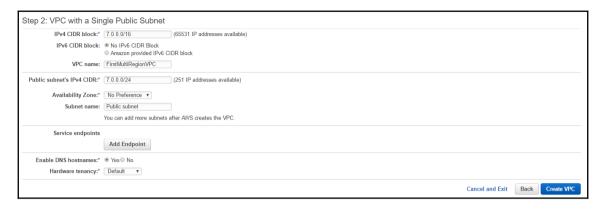




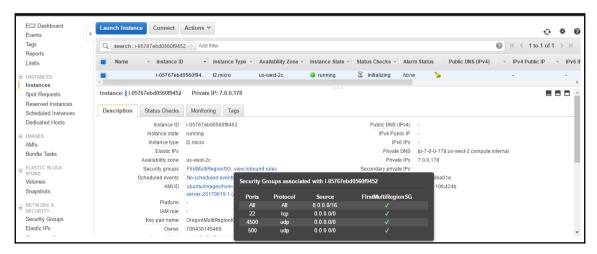


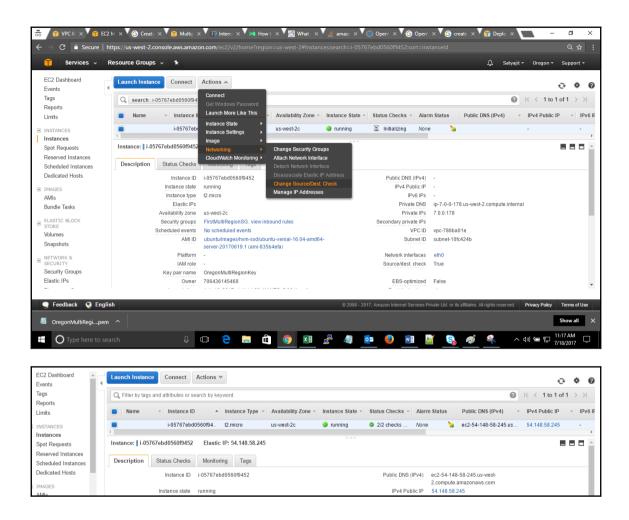


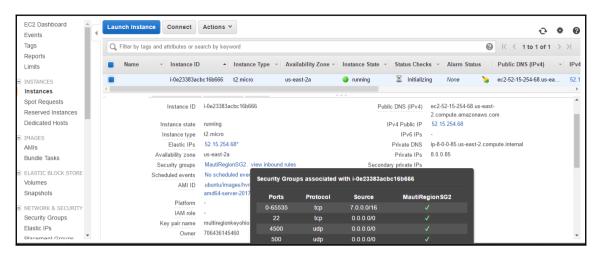


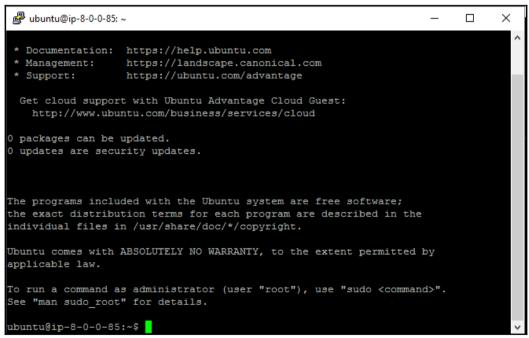




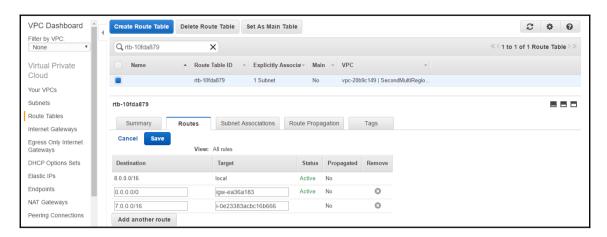


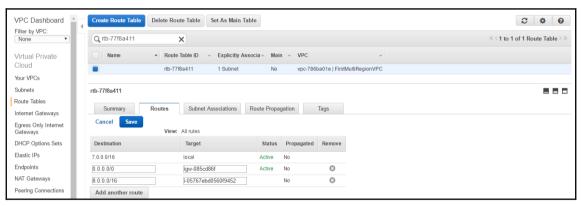






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## Amazon Route 53

You can use Amazon Route 53 to register new domains, transfer existing domains, route traffic for your domains to your AWS and external resources, and monitor the health of your resources.



### DNS management

If you already have a domain name, such as example.com, Route 53 can tell the Domain Name System (DNS) where on the Internet to find web servers, mail servers, and other resources for your domain. Learn More

Get started now



### Traffic management

Route 53 traffic flow provides a visual tool that you can use to create and update sophisticated routing policies to route end users to multiple endpoints for your application.

Learn More



### Availability monitoring

Route 53 can monitor the health and performance of your application as well as your web servers and other resources. Route 53 can also redirect traffic to healthy resources. Learn More

Get started now

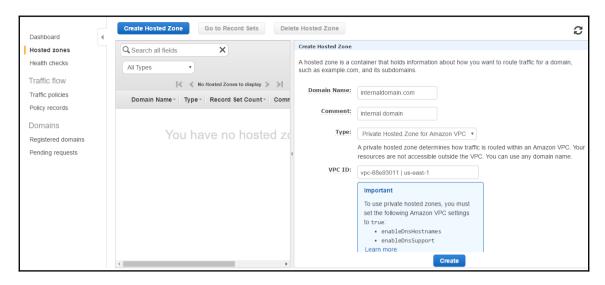


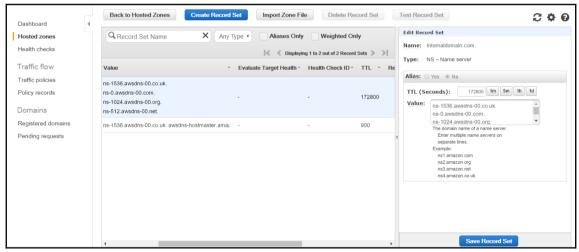
### Domain registration

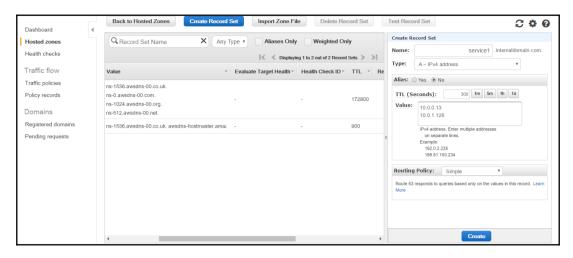
If you need a domain name, you can find an available name and register it by using Route 53. You can also make Route 53 the registrar for existing domains that you registered with other registrars.

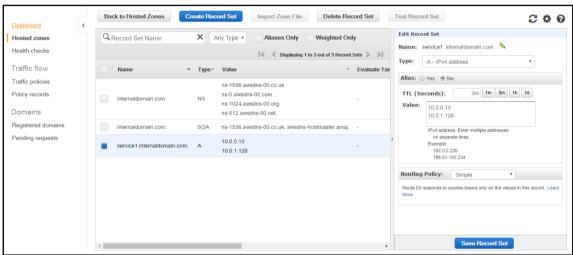
Get started now

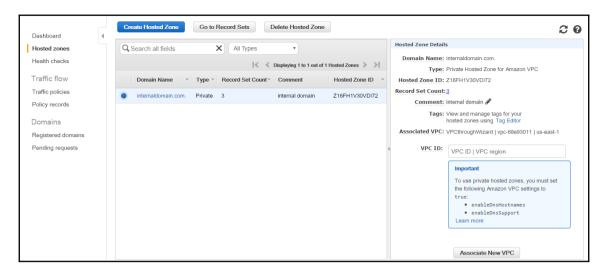


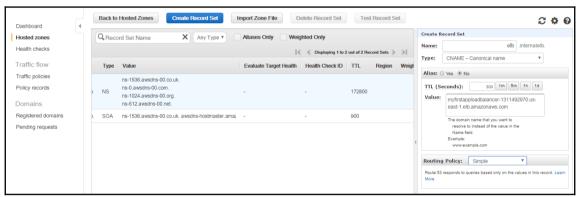


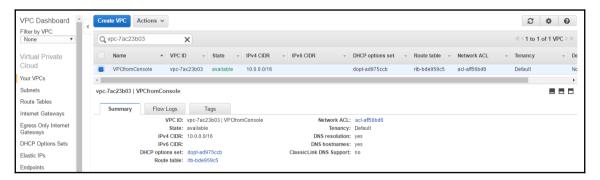


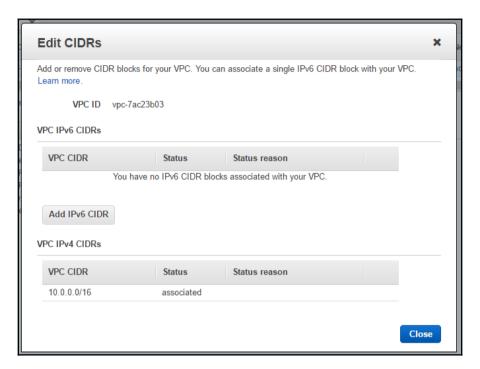


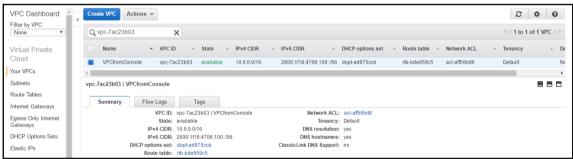




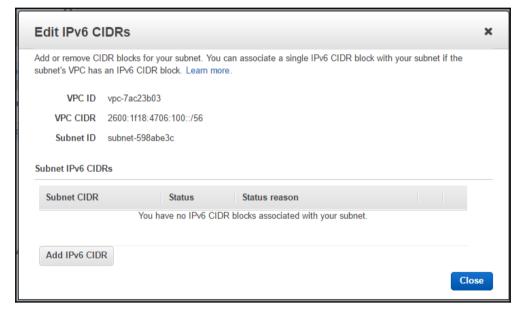


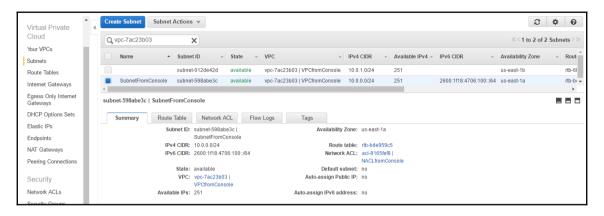






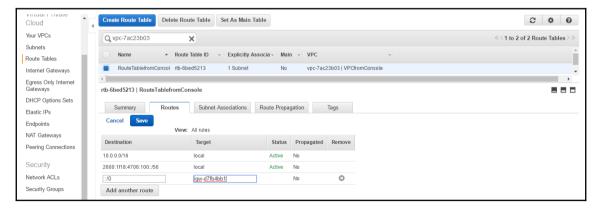


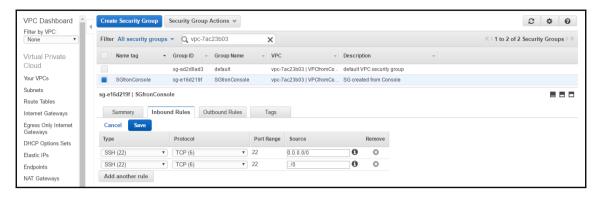




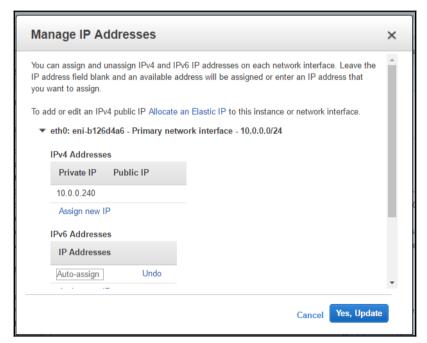






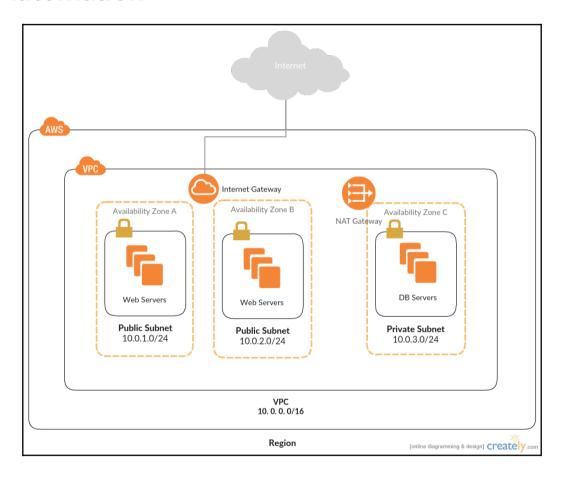


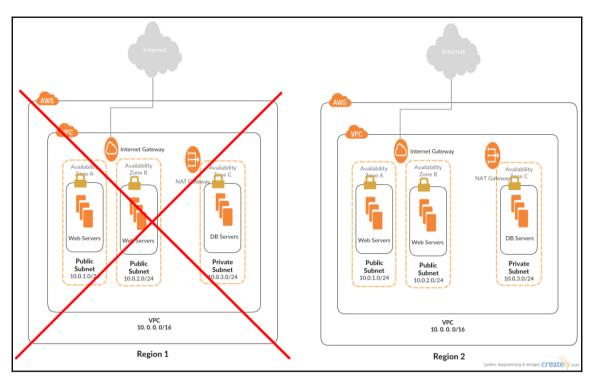




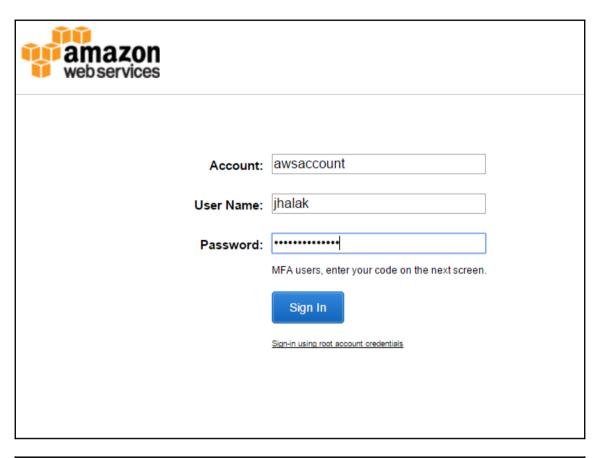


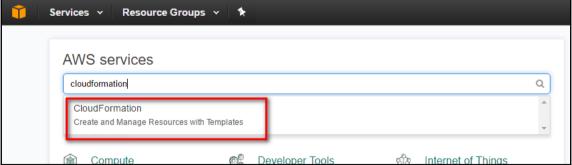
# **Chapter 5: Working with Infrastructure Automation**

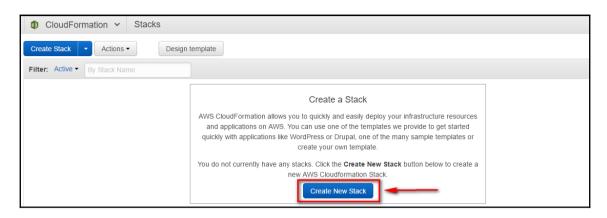


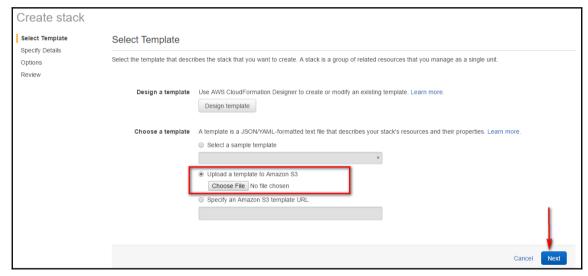


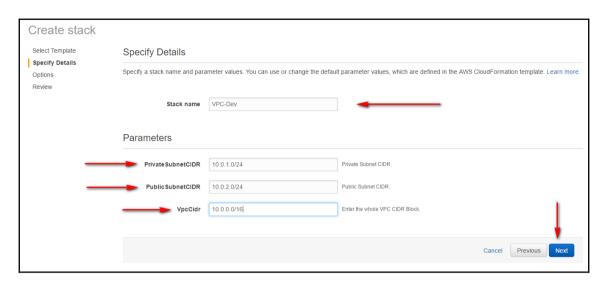


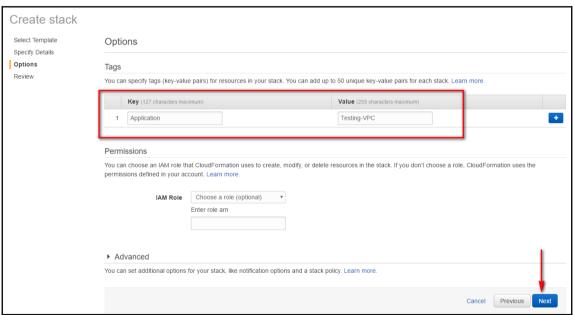








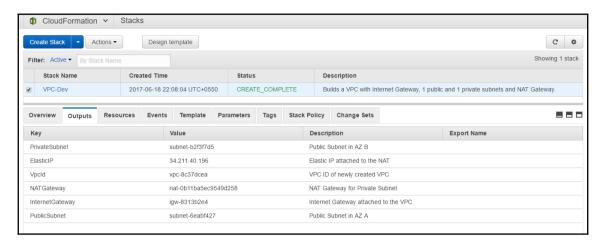


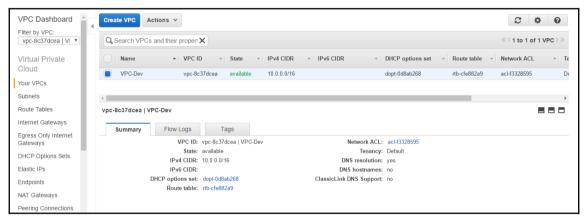


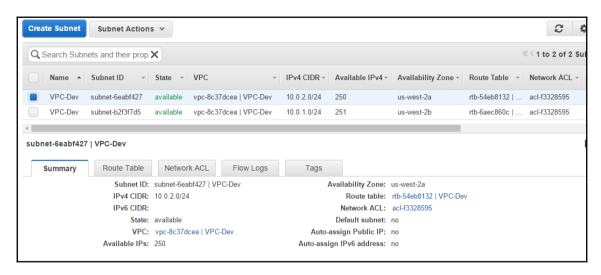


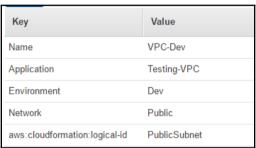


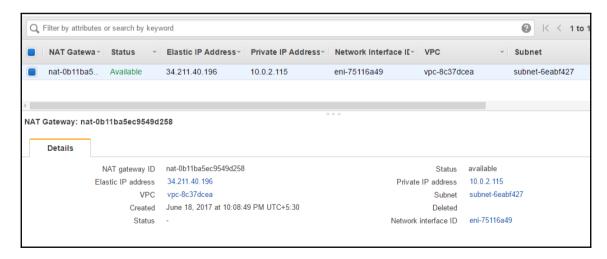


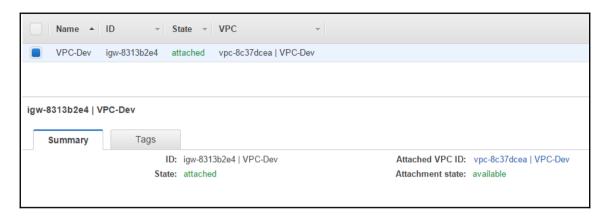


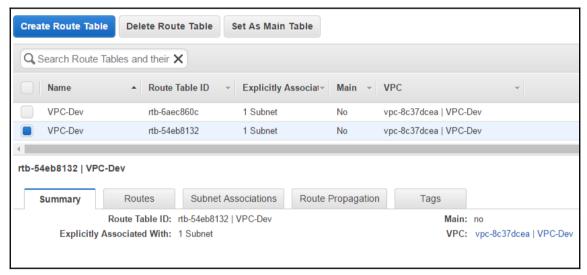


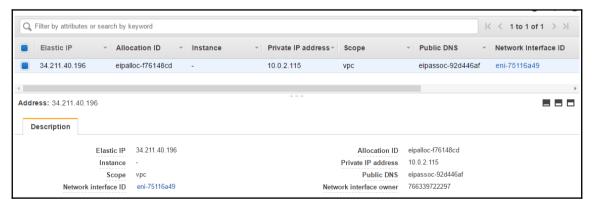




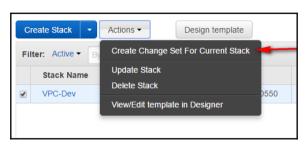


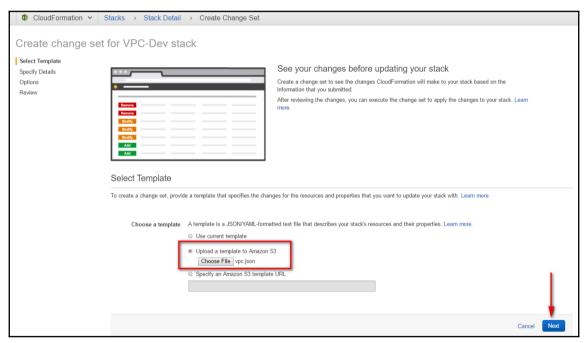


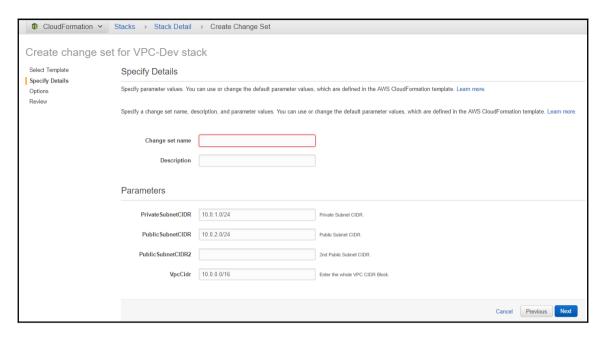


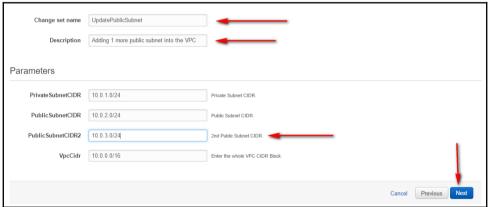




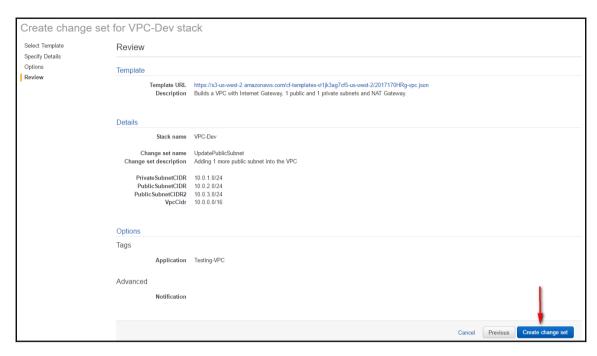






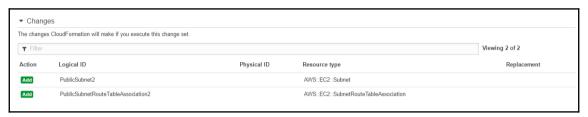












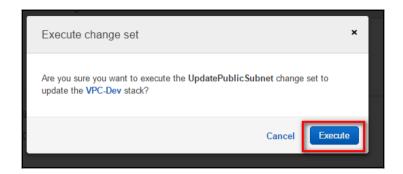


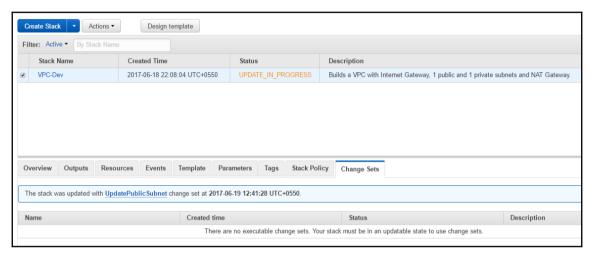
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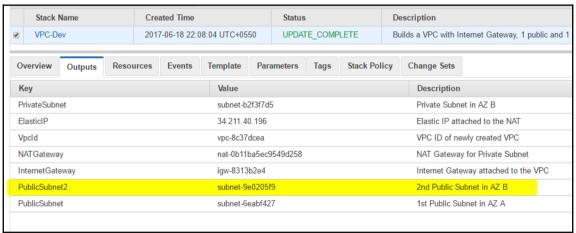
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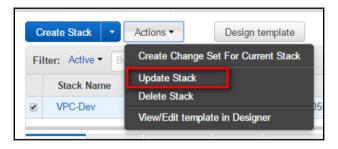
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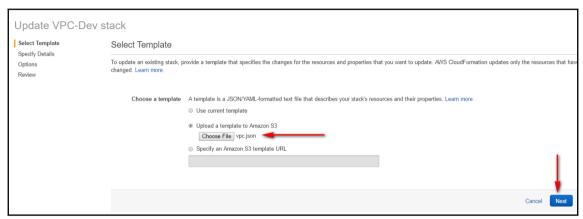


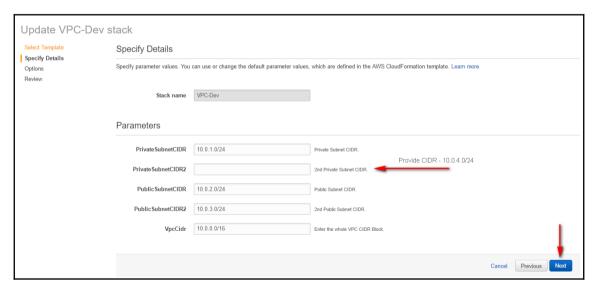


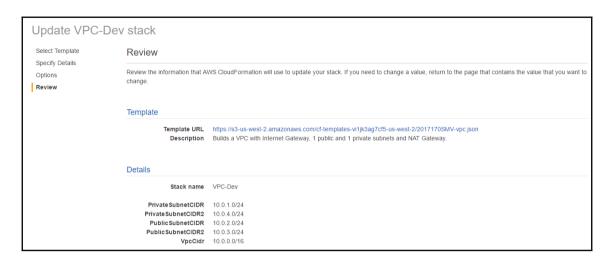


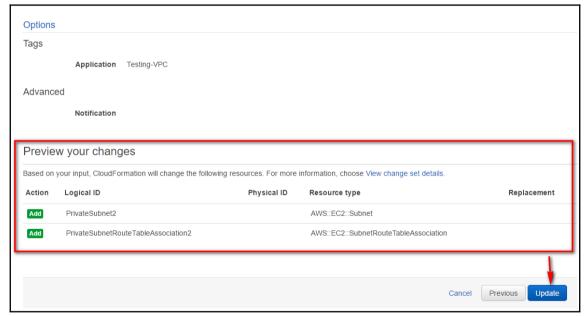






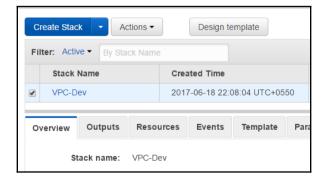


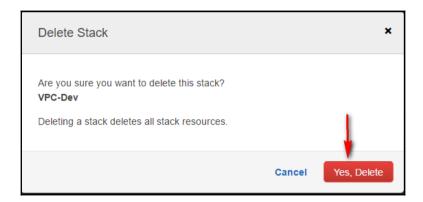


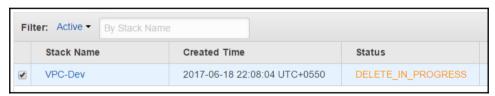


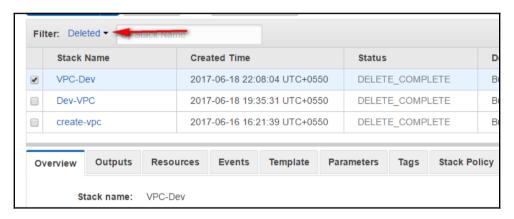
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▶ 14:43:38 UTC-	+0550 UPDATE_CC _IN_PROGR	OMPLETE_CLE	ANUP AWS	::CloudFormatio	n::Stack		VPC-Dev	
▶ 14:43:35 UTC-	+0550 CREATE_CO	OMPLETE	AWS	::EC2::SubnetRo	outeTable	Association	PrivateSubnetRouteTable/ iation2	Assoc
▶ 14:43:19 UTC-	+0550 CREATE_IN	_PROGRESS	AWS	::EC2::SubnetRo	outeTable	Association	PrivateSubnetRouteTableAiation2	Assoc Resource creation Initiated
14:43:18 UTC-	+0550 CREATE_IN	_PROGRESS	AWS	::EC2::SubnetRo	outeTable	Association	PrivateSubnetRouteTableA iation2	Assoc
▶ 14:43:16 UTC-	+0550 CREATE_CO	OMPLETE	AWS	::EC2::Subnet			PrivateSubnet2	
▶ 14:43:00 UTC-	+0550 CREATE_IN	PROGRESS	AWS	::EC2::Subnet			PrivateSubnet2	Resource creation Initiated
14:42:59 UTC-	+0550 CREATE_IN	_PROGRESS	AWS	::EC2::Subnet			PrivateSubnet2	
▶ 14:42:54 UTC-	+0550 UPDATE_IN	_PROGRESS	AWS	::CloudFormatio	n::Stack		VPC-Dev	User Initiated

Stack Name			Created Time				Status			Description	
✓ VPC-Dev	2017	2017-06-18 22:08:04 UTC+0550				UPDATE_COMPLETE			Builds a VPC with Internet Gateway,		
Overview Ou	itputs	Resources	Events	Template	Par	ameters	Tags	Stack Po	licy	Change Sets	
Key		/alue					Description				
PrivateSubnet	s	subnet-b2f3f7d5					Private Subnet in AZ B				
PrivateSubnet2	s	subnet-33411f7a					2nd Private Subnet in AZ A				
ElasticIP	3	34.211.40.196					Elastic IP attached to the NAT				
Vpcld	V	vpc-8c37dcea					VPC ID of newly created VPC				
NATGateway	n	nat-0b11ba5ec9549d258					NAT Gateway for Private Subnet				
InternetGateway	ig	igw-8313b2e4					Internet Gateway attached to the VPC				
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PublicSubnet				subnet-6eabf427					1st Public Subnet in AZ A		

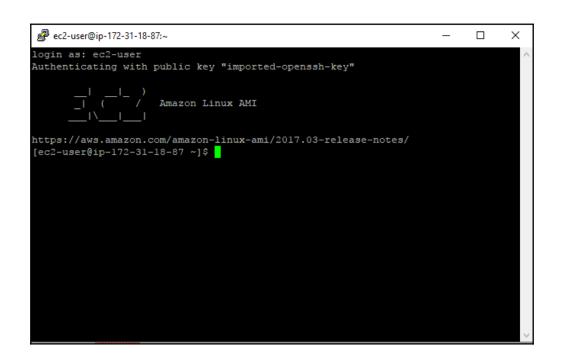








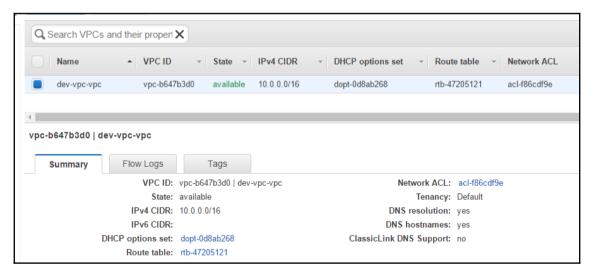


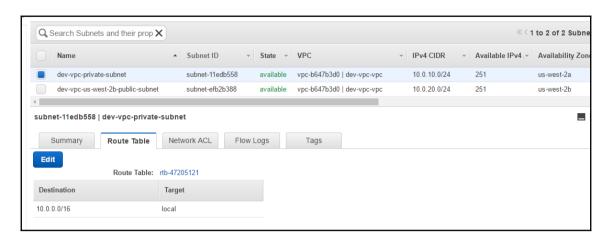


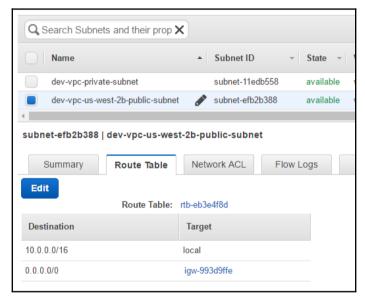
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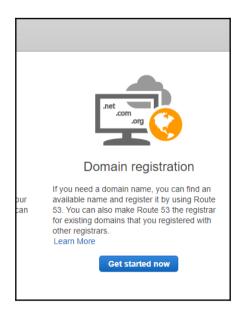
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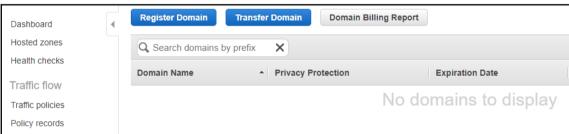


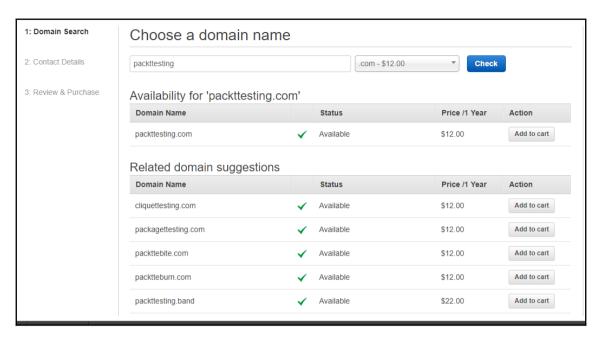


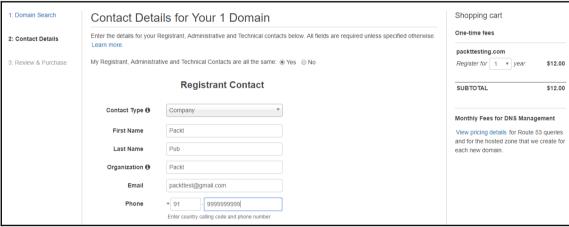


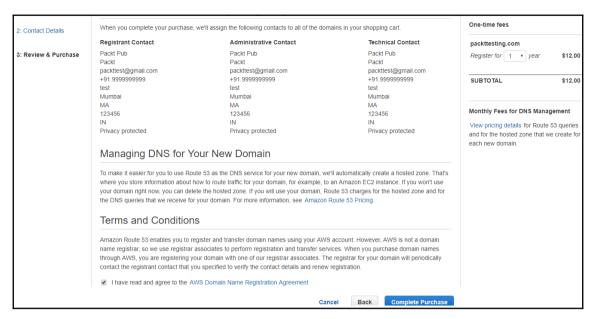
## **Chapter 6: Working with Route 53**

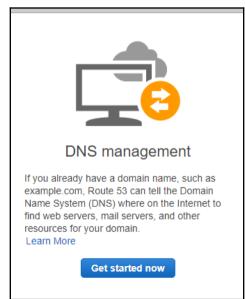




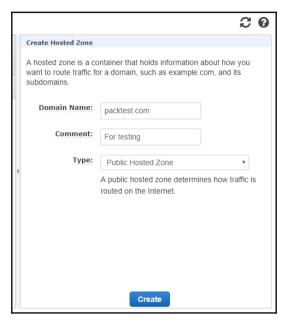


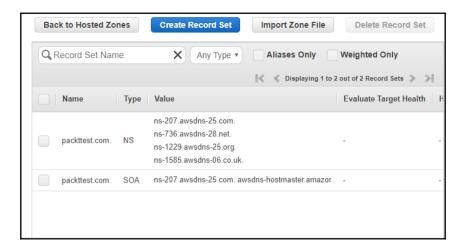


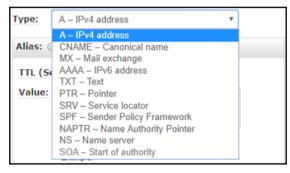


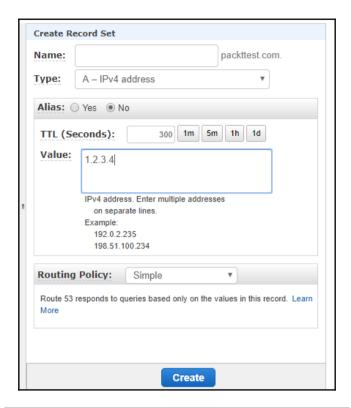


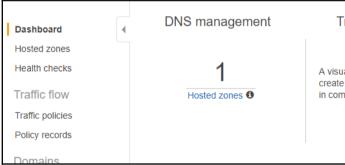


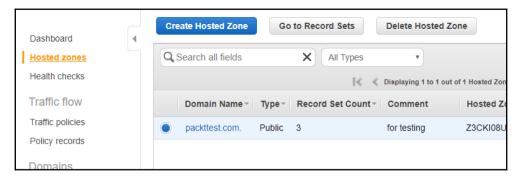


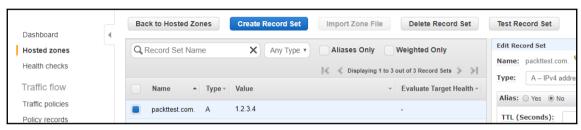


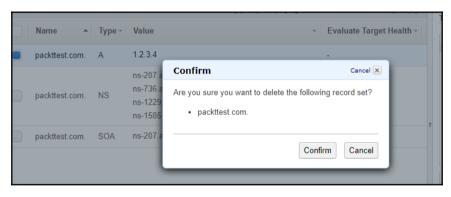


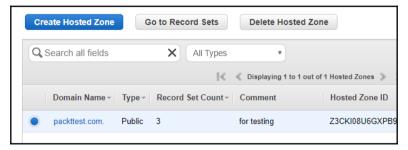




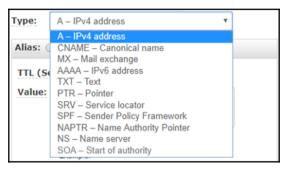


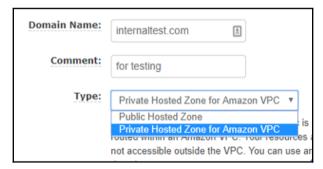


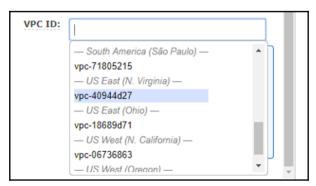


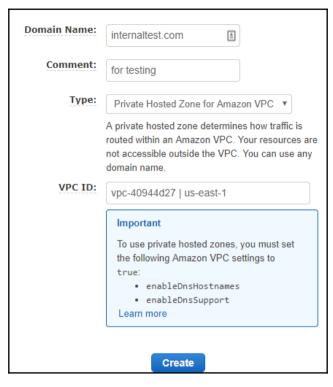


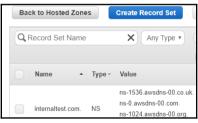




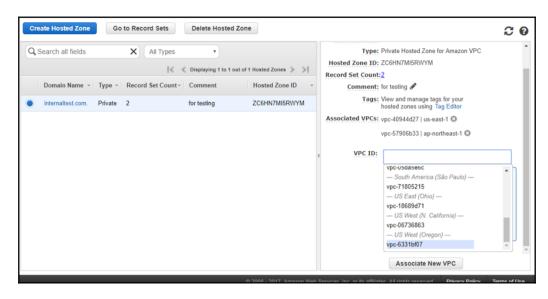


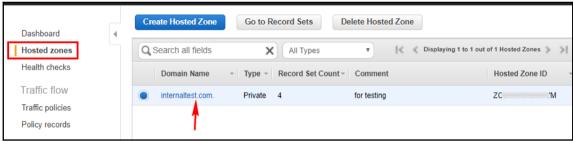


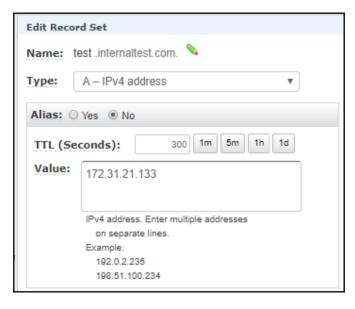


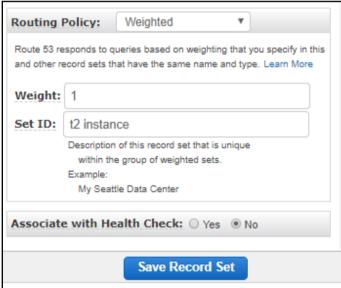




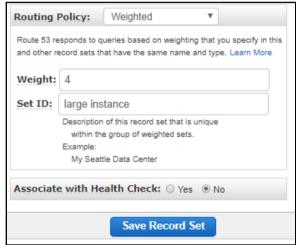


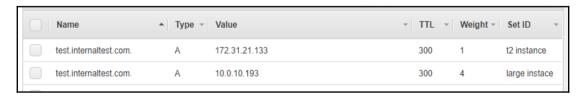




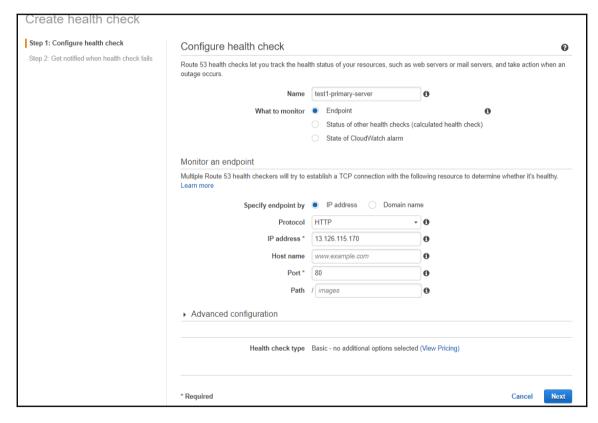


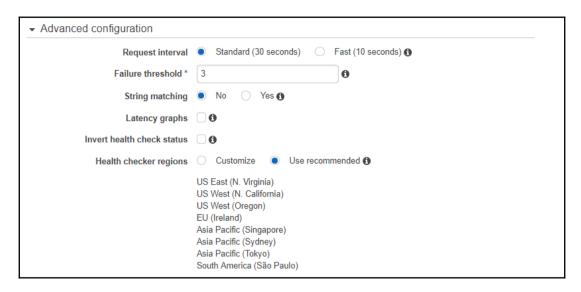


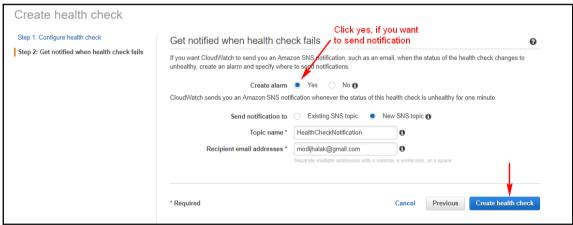


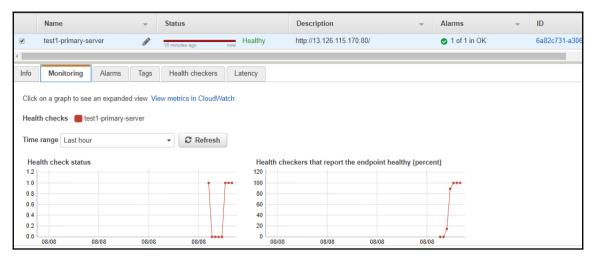


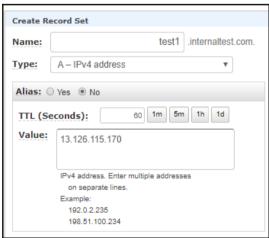




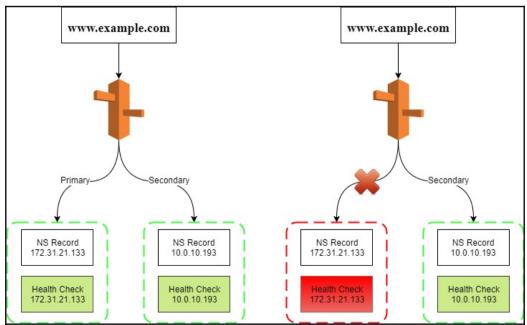


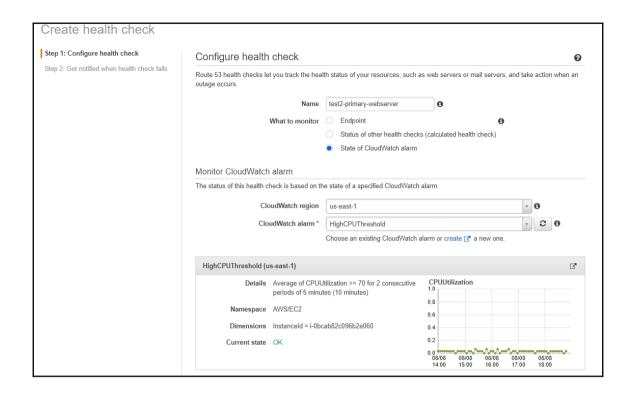




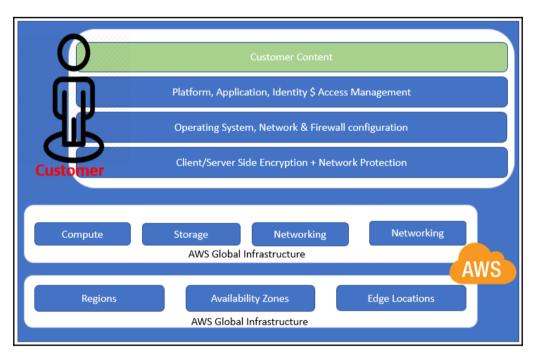






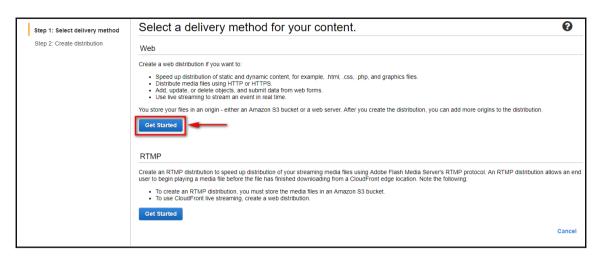


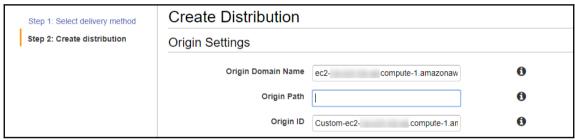
## **Chapter 7: Cloud Security and Network Compliance**

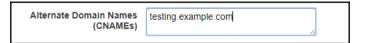














SSL Certificate

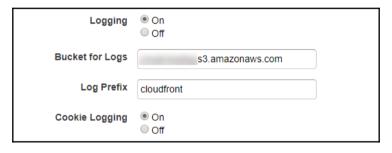
Default CloudFront Certificate (\*.cloudfront.net)

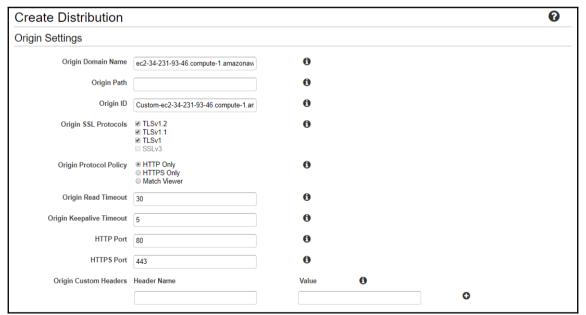
Choose this option if you want your users to use HTTPS or HTTP to access your content with the CloudFront domain name (such as https://d111111abcdef8.cloudfront.net/logo.jpg).

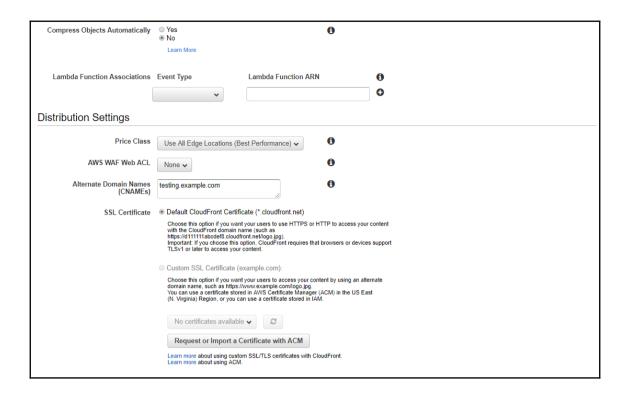
Important: If you choose this option, CloudFront requires that browsers or devices support TLSv1 or later to access your content.

Custom SSL Certificate (example.com):

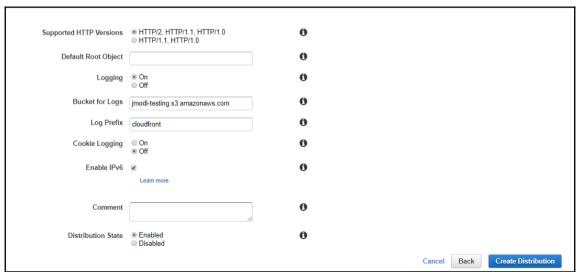
Choose this option if you want your users to access your content by using an alternate domain name, such as https://www.example.com/logo.jpg.
You can use a certificate stored in AWS Certificate Manager (ACM) in the US East (N. Virginia) Region, or you can use a certificate stored in IAM.





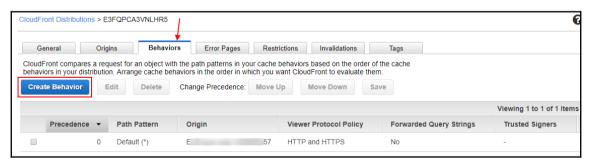


Default Cache Behavior Settings			
Path Pattern	Default (*)	0	
Viewer Protocol Policy	HTTP and HTTPS     Redirect HTTP to HTTPS     HTTPS Only	0	
Allowed HTTP Methods	GET, HEAD     GET, HEAD, OPTIONS     GET, HEAD, OPTIONS, PUT, POST, P.	atch, delete	
Cached HTTP Methods	GET, HEAD (Cached by default)	0	
Forward Headers	None (Improves Caching) ✔	•	
Object Caching	Use Origin Cache Headers     Customize	•	
	Leam More		
Minimum TTL	0	•	
Maximum TTL	31536000	•	
Default TTL	86400	0	
Forward Cookies	None (Improves Caching) 🗸	0	
Query String Forwarding and Caching	None (Improves Caching) 🗸	•	
Smooth Streaming	○ Yes ● No	•	
Restrict Viewer Access (Use Signed URLs or Signed Cookies)	○ Yes ● No	0	

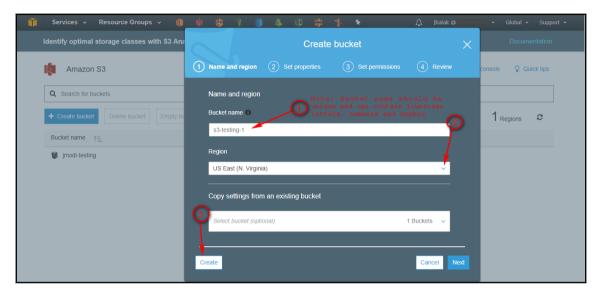


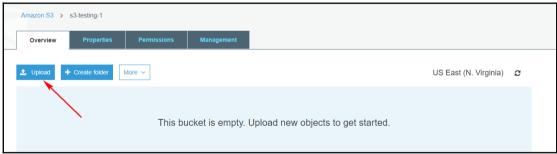


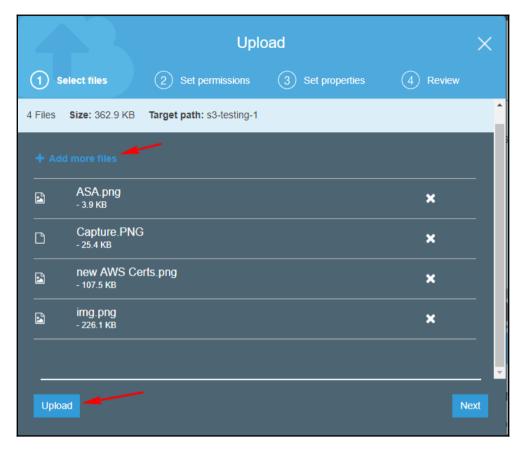


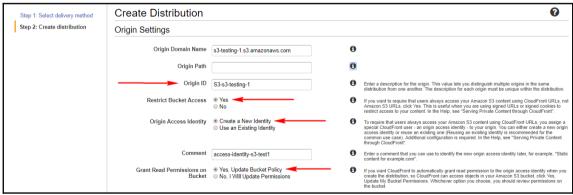


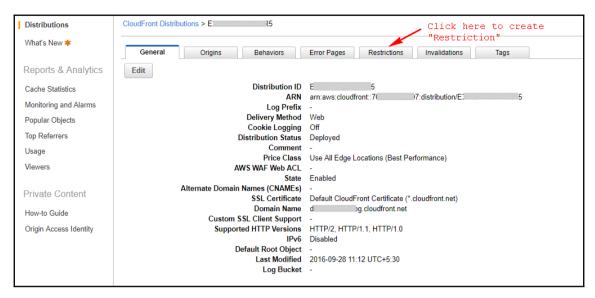




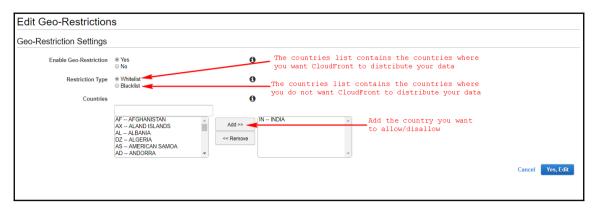


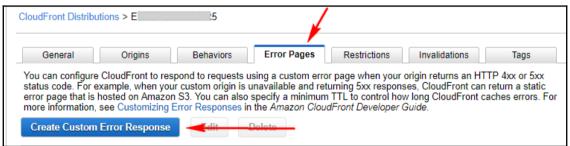








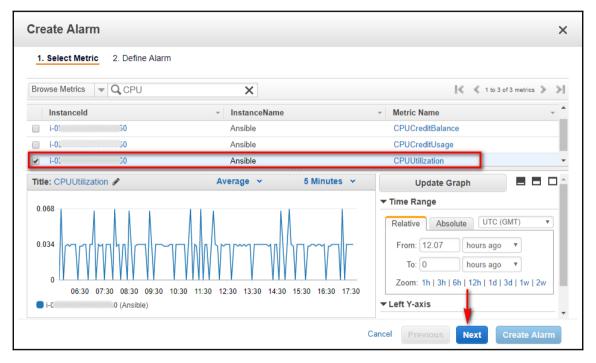


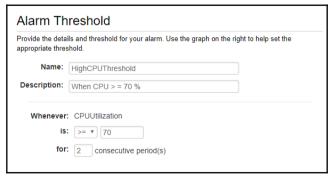


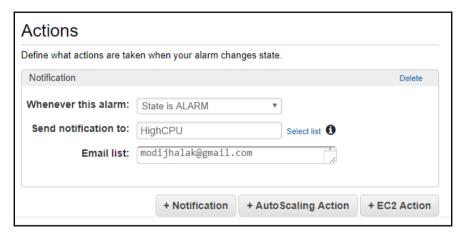


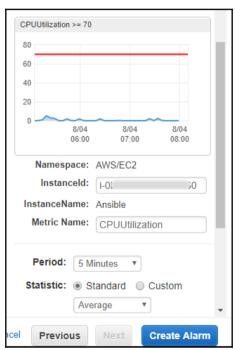


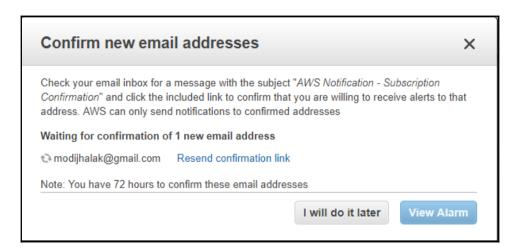




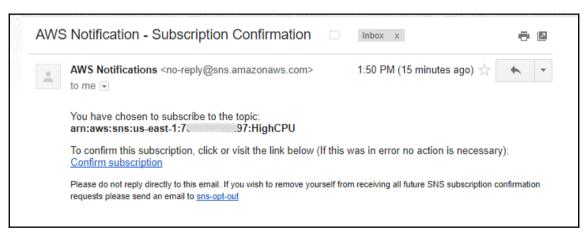


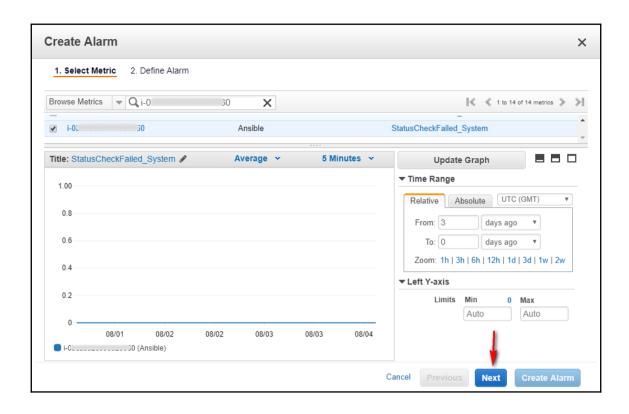


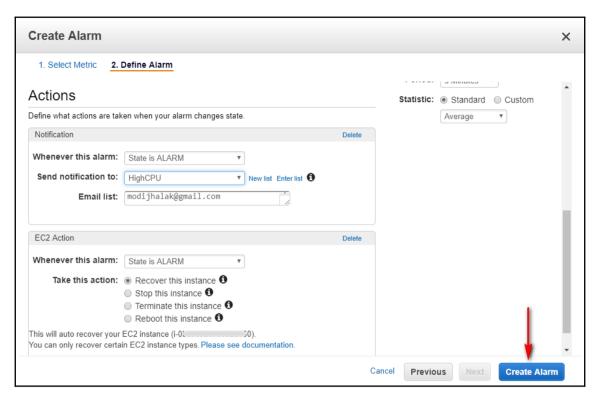




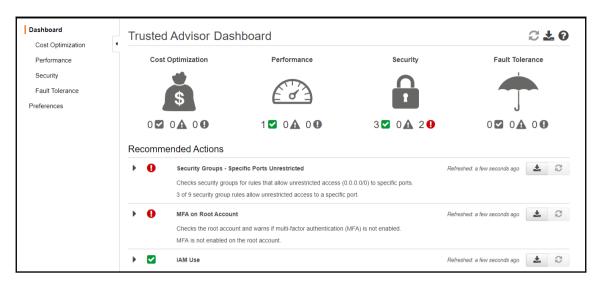


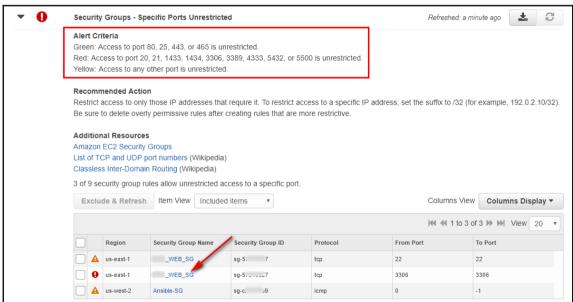


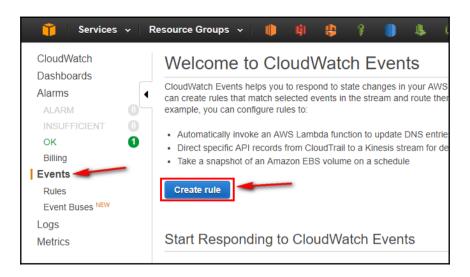


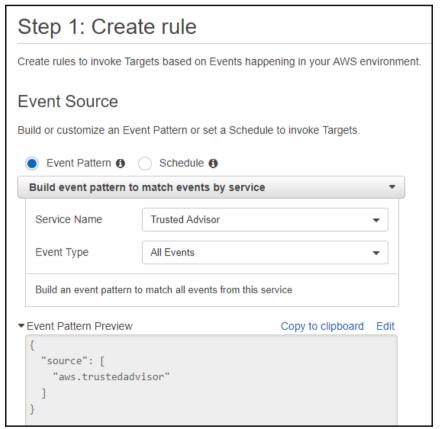


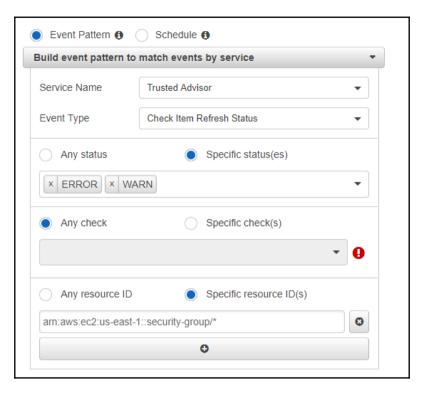


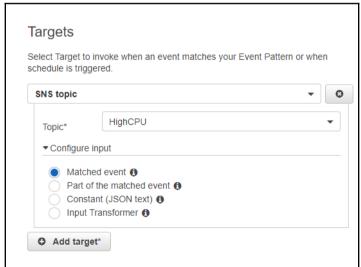




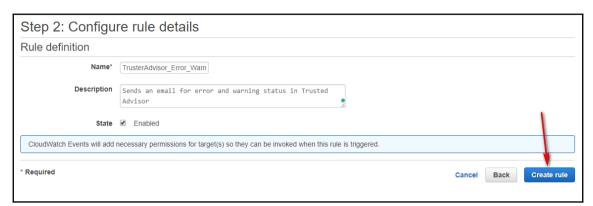






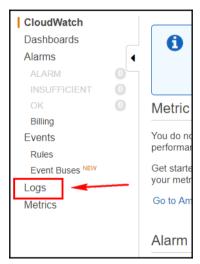




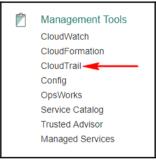




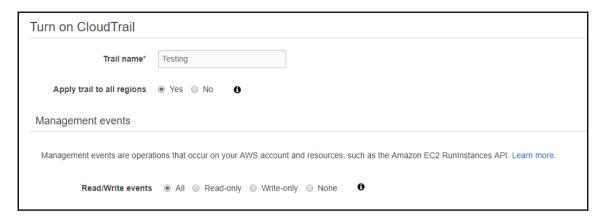




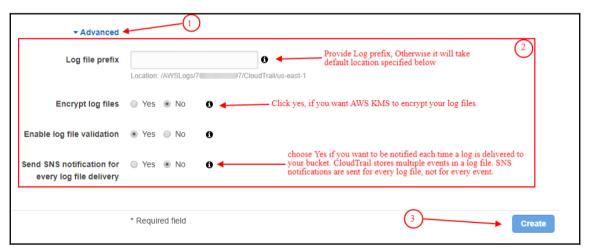














Contact Information	
Please provide the email address and the associated name of the AWS account owner with which you have used AWS Account ID number of the account used to log into this form will be sent along with your submission. If you we for a different account, please log out and log back in with the account for which you want to test.	
Your Name:*	
	<b>A</b>
Company Name*	
Email Address	
Additional Email Address	
Additional Email Address	
Additional Email Address	
Third Party Contact Information	

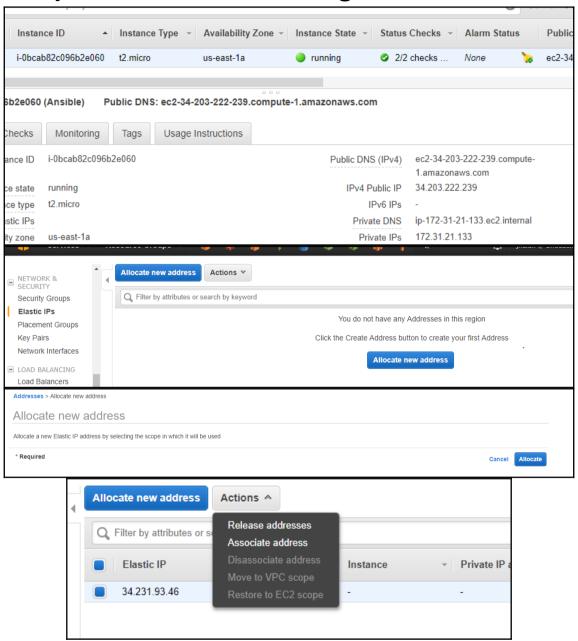
Scan Information	
IP Addresses to be scanned (Destination)*	
	11
Are the instances the source of the scan or the target of the scan?*	
Source	
□ Target Instance IDs*	
Instance IDS*	
Scanning IP addresses (Source)*	_//
Scalling in addresses (Source)	
	/
Total Bandwidth (Please provide expected Gbps)*	

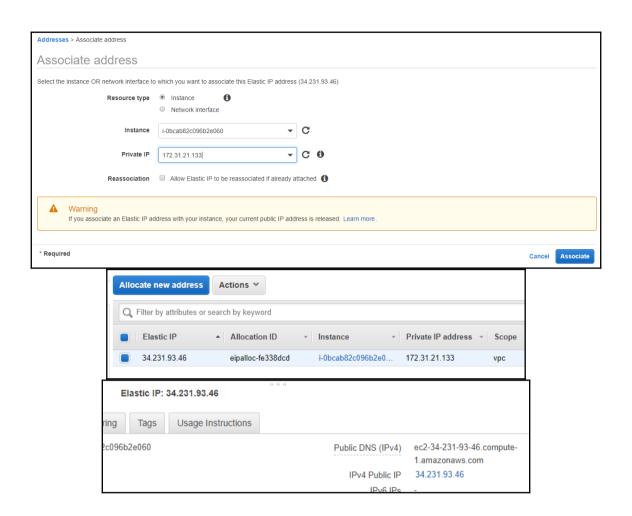
What region are these instances in?*  Asia Pacific (Seoul)  Asia Pacific (Singapore)  Asia Pacific (Tokyo)  Asia Pacific (Sydney)  Time Zone  GMT-11
Start Date and Time (YYYY-MM-DD HH:MM)*
End Date and Time (YYYY-MM-DD HH:MM)*
Additional Comments
Terms and Conditions
Furthermore, you are responsible for any damages to AWS or other AWS customers that are caused by your penetration testing activities. AWS Policy Regarding the Use of Security Assessment Tools and Services Agreement*

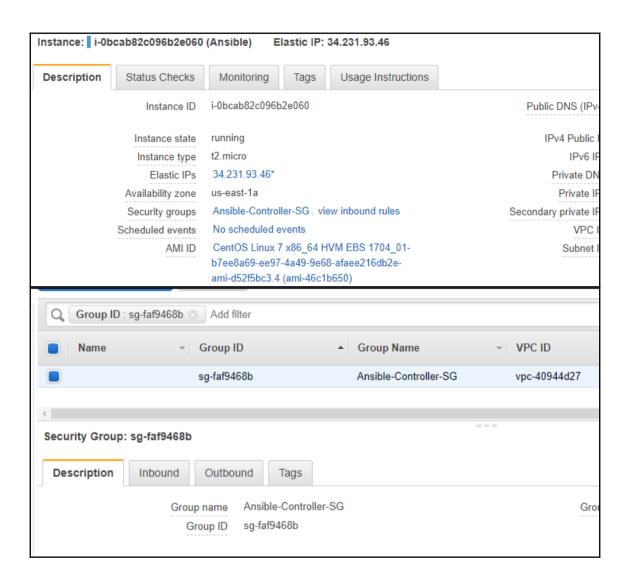
I agree
I do not agree

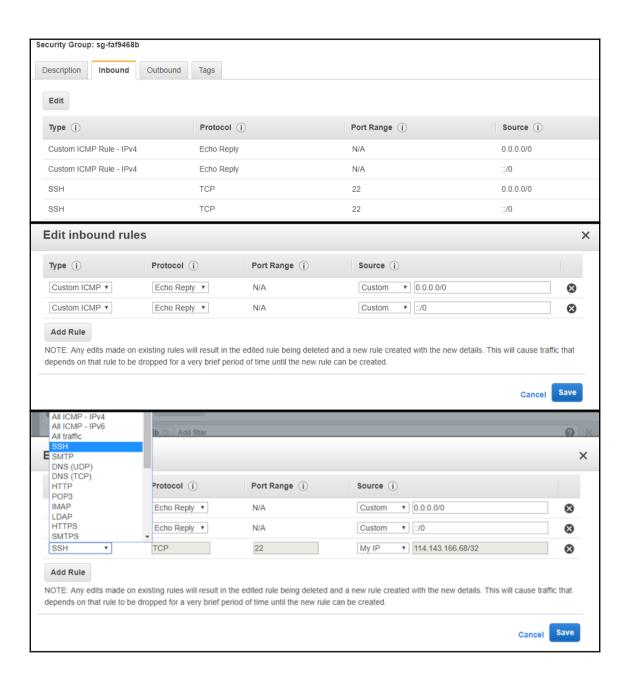
Submit

## **Chapter 8: Troubleshooting and VPC Limits**

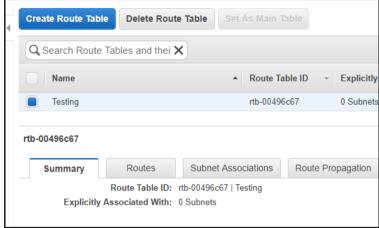


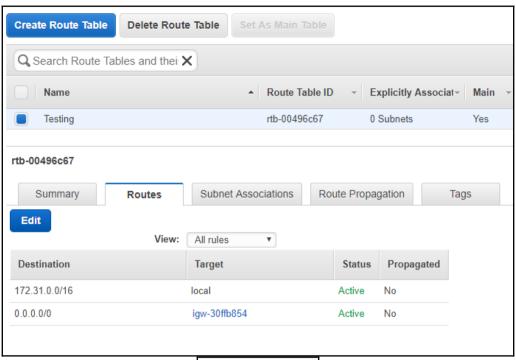


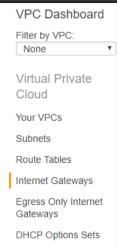


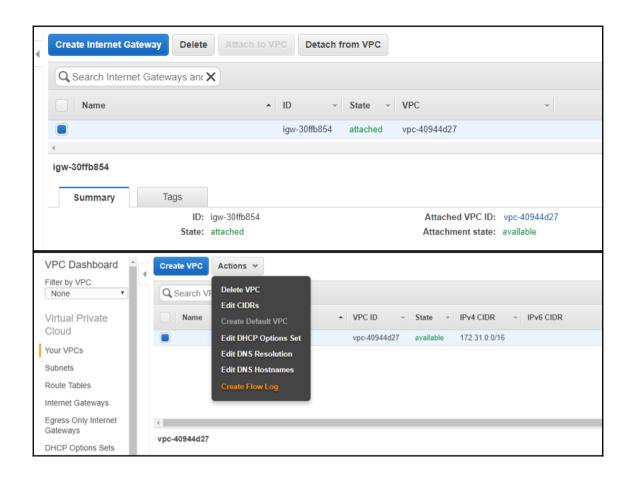


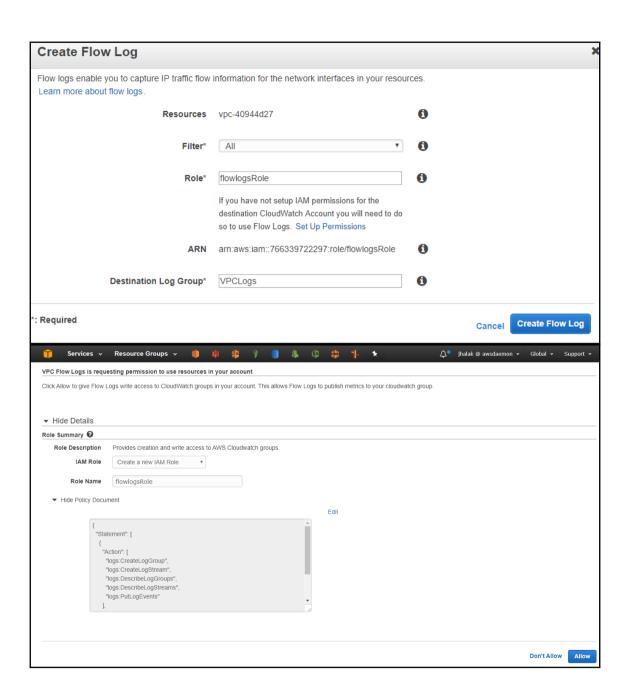


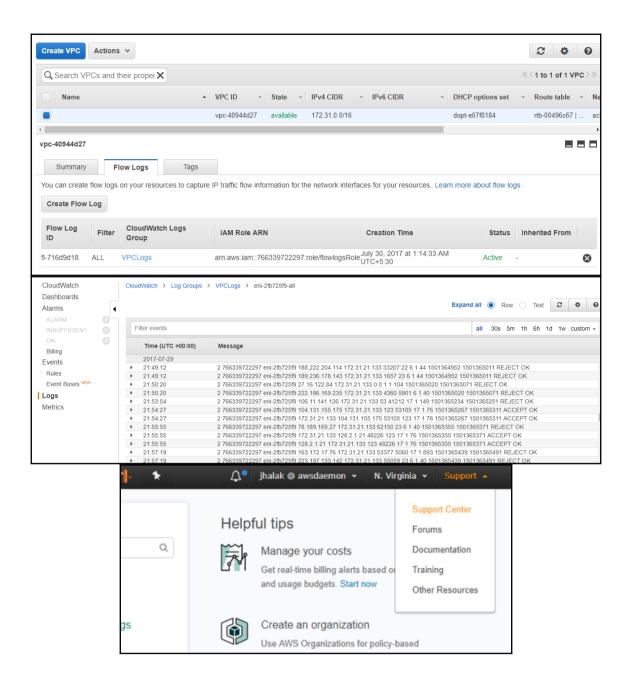


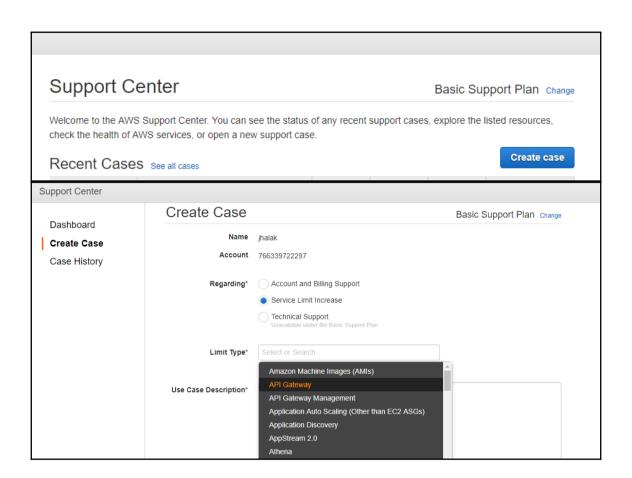


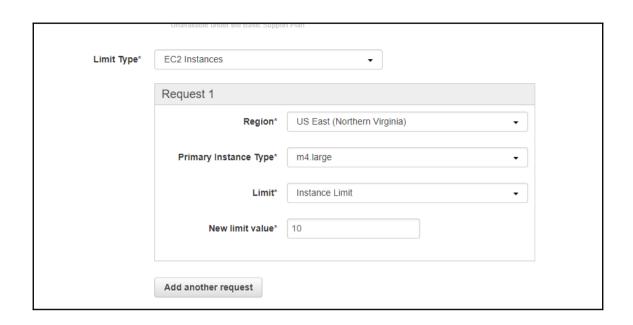




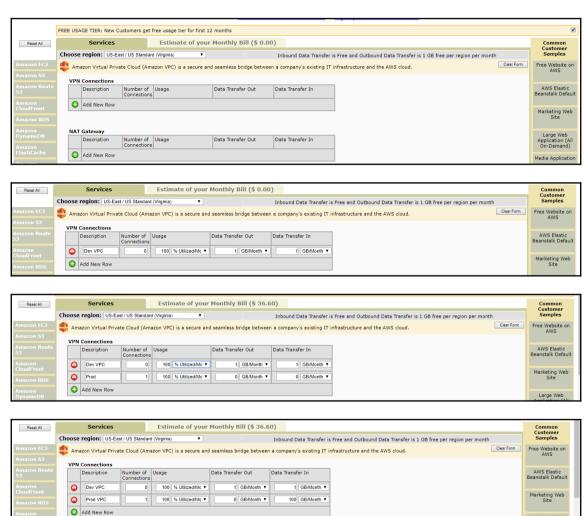




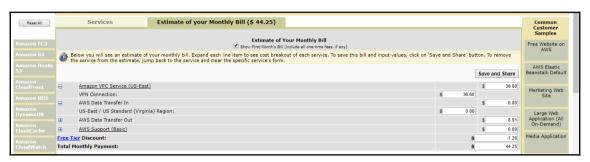


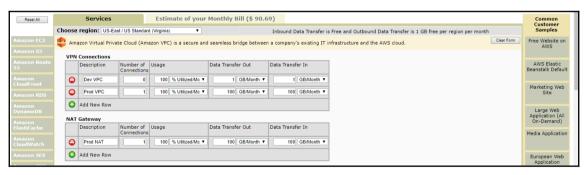


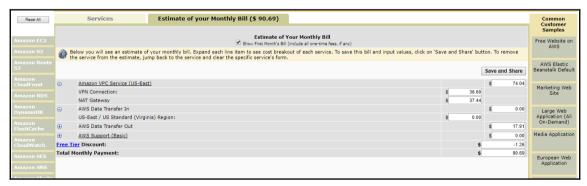
## Chapter 9: Pricing of VPC and Related Components

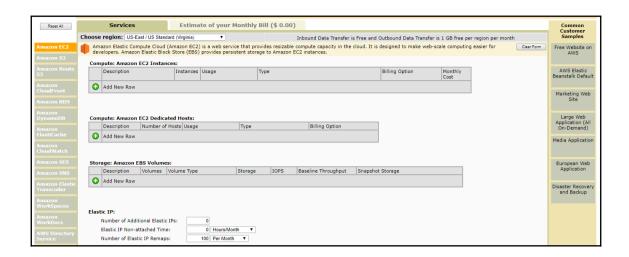




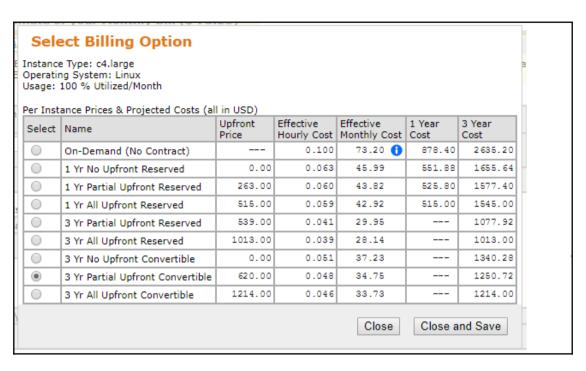


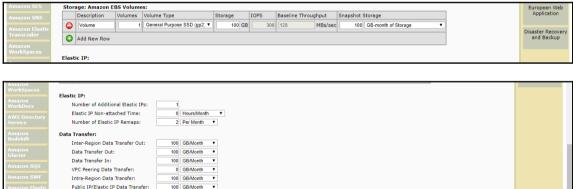


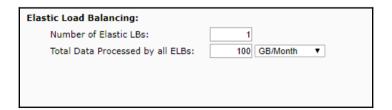


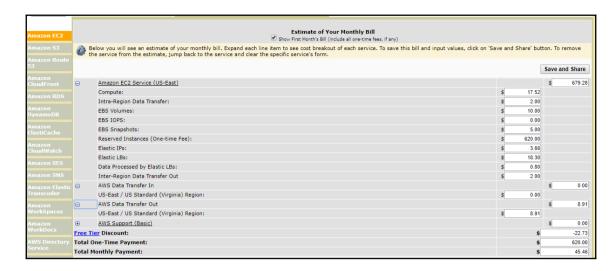


0	Windows			Linux					
<ul><li>Windows and Std. SQL Server</li></ul>		Red Hat Enterprise Linux			EBS-Optimized				
Windows and Web SQL Server		SUSE Linux Enterprise Server							
	Windows and En	terpris	e SQL Sei	rver					
0	m4.16xlarge	64	256.0		10 Gigabit		\$3.200	\$1.203 (	62%)
0	m3.medium	1	3.75	SSD 1 x 4	Moderate		\$0.067	\$0.026 (	61%)
	m3.large	2	7.5	SSD 1 x 32	Moderate		\$0.133	\$0.052 (	61%)
	m3.xlarge	4	15.0	SSD 2 x 40	High	Yes	\$0.266	\$0.105 (	61%)
	m3.2xlarge	8	30.0	SSD 2 x 80	High	Yes	\$0.532	\$0.209 (	61%)
•	c4.large	2	3.7		Moderate	Yes	\$0.100	\$0.039 (	61%)
	c4.xlarge	4	7.5		High	Yes	\$0.199	\$0.078 (	61%)
	c4.2xlarge	8	15.0		High	Yes	\$0.398	\$0.155 (	61%)
	c4.4xlarge	16	30.0		High	Yes	\$0.796	\$0.310 (	61%)
	c4.8xlarge	36	60.0		10 Gigabit	Yes	\$1.591	\$0.621 (	61%)
	c3.large	2	3.7	SSD 2 x 16	Moderate		\$0.105	\$0.039 (	63%)
	c3.xlarge	4	7.5	SSD 2 x 40	Moderate	Yes	\$0.210	\$0.079 (	62%)
	c3.2xlarge	8	15.0	SSD 2 x 80	High	Yes	\$0.420	\$0.157 (	63%)
	c3.4xlarge	16	30.0	SSD 2 x 160	High	Yes	\$0.840	\$0.315 (	63%)
	c3.8xlarge	32	60.0	SSD 2 x 320	10 Gigabit		\$1.680	\$0.628 (	63%)
	p2.xlarge	4	61.0		High		\$0.900	\$0.399 (	56%)
O Adv	p2.8xlarge   anced Options —	32	488.0		10 Giaabit		\$7.200	\$3.196 (	56%)
Sh									
assu	mes 100% usag	e and	Reserved	Instance paid all upfror	nt (more billing	options a	vailable)		
							Close	Close and	





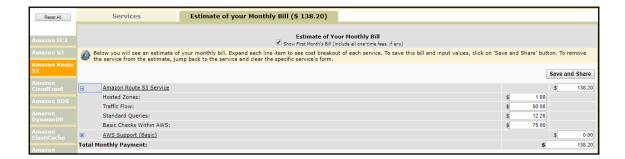


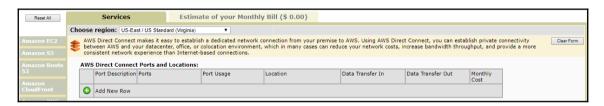


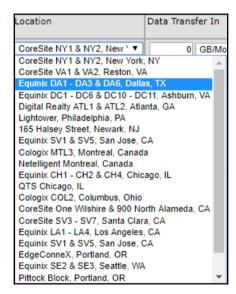
Reset All	Services Estimate of your Monthly Bill (\$ 0.00)			
	Choose region: US-East / US Standa	rd (Virginia)	Samples	
Amazon EC2 Amazon S3		liable and scalable DNS service designed to give developers and businesses an extremely reliable and cost effective way to route end users to ute 53 charges are based on actual usage of the service in two areas: Hosted Zones and Queries. You pay only for managing domains through the stratt the service answers.	Free Website on AWS	
Amazon Route 53	Hosted Zones:		AWS Elastic Beanstalk Default	
Amazon CloudFront	Traffic Flow:		Marketing Web	
Amazon RDS	Standard Queries:	0 Per Month ▼ Million Queries	Site	

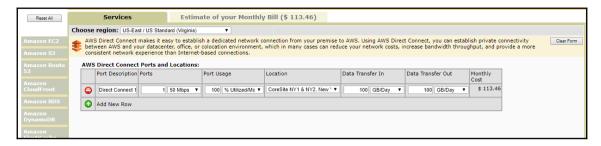
Reset All	Services Estimate of your Monthly Bill (\$ 138.20)	Common Customer
	Choose region: US-East / US Standard (Virginia)	Samples
Amazon EC2 Amazon S3	The Amazon Route 53 is a highly available and scalable DNS service designed to give developers and businesses an extremely reliable and cost effective way to route end users to Internet applications. Amazon Route 53 charges are based on actual usage of the service in two areas: Hosted Zones and Queries. You pay only for managing domains through the service and the number of queries that the service answers.	Free Website on AWS
Amazon Route 53	Hosted Zones: Hosted Zones: 2	AWS Elastic Beanstalk Default
Amazon CloudFront Amazon RDS	Traffic Flow:  Standard Queries:  1   Per Day	Marketing Web Site
Amazon DynamoDB	Geo DNS Queries:  0   Per Month	Large Web Application (All On-Demand)
ElastiCache Amazon CloudWatch	Basic Checks Within AWS: 200 Per Month Basic Checks Outside of AWS: 0 Per Month	Media Application

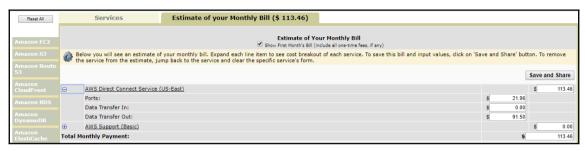
Reset All	Services	Estimate of your Monthly Bill (\$ 138.20)	Common Customer
	Choose region: US-East / US Stand	ard (Virginia)	Samples
Amazon EC2 Amazon S3	Amazon Route 53 is a highly ava Internet applications. Amazon Ro service and the number of queri	ilable and scalable DNS service designed to give developers and businesses an extremely reliable and cost effective way to route end users to outs 53 charges are based on actual usage of the service in two areas: Hosted Zones and Queries. You pay only for managing domains through the st that the service answers.	Free Website on AWS
Amazon Route 53	Hosted Zones:		AWS Elastic Beanstalk Default
Amazon	Hosted Zones:	2	
CloudFront Amazon RDS	Traffic Flow: Standard Queries: Latency Based Routing Queri	1 Per Day  Million Queries es: 0   Per Month	Marketing Web Site
Amazon DynamoDB Amazon	Geo DNS Queries:  DNS Failover Health Checks for	0 Per Month v Million Queries	Large Web Application (All On-Demand)
ElastiCache Amazon	Basic Checks Within AWS:  Basic Checks Outside of AWS	200 Per Month	Media Application
CloudWatch	basic checks outside of AWS	· v rei Politi	















Amazon	Edge Location Traffic Distribution:				
ElastiCache	United States	30	%		
Amazon CloudWatch	Canada	10	%		
	Europe	30	%		
Amazon SES	Hong Kong, Philippines, S. Korea, Singapore & Taiwan	5	%		
Amazon SNS	Japan	5	%		
Amazon Elastic Transcoder	South America	5	%		
	Australia	5	%		
Amazon WorkSpaces	India	10	%		
Amazon WorkDocs	Dedicated IP SSL Certificates:  Number of Certificates:	0			
Auro o	Number of Certificates:	U			

