

Single FortiGate Firewall in a VPC_CFT Steps

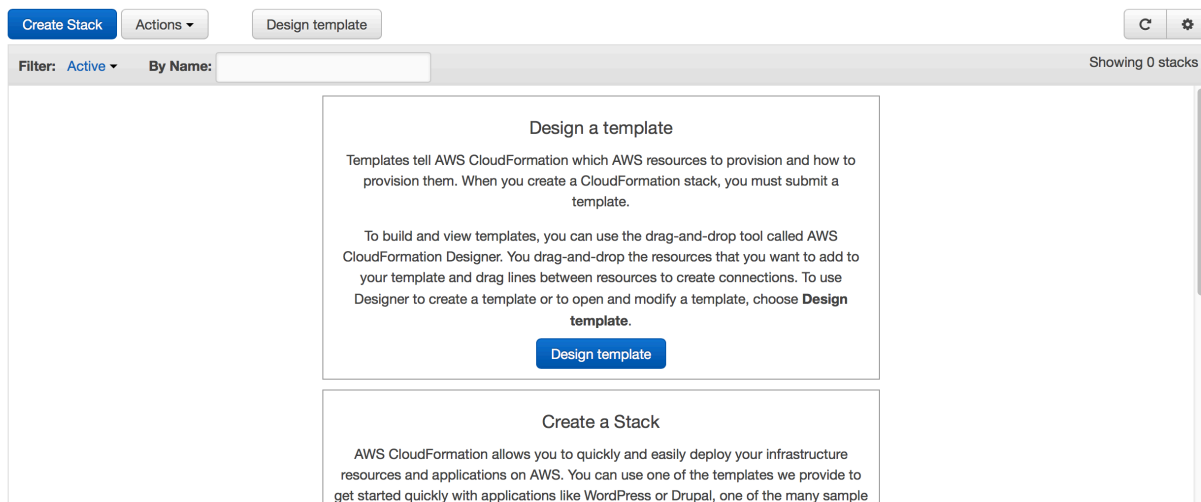
Step 1) Download the CloudFormation template here at <https://s3.amazonaws.com/fortigatetemplates/FortiGate-template5.4.1.template>

Step 2) Login to AWS Management Console at <https://aws.amazon.com> using your AWS login credentials

Step 3) Navigate to CloudFormation service in the Management Tools Section of the Management Console.

The screenshot shows the AWS Management Console home page. On the left, there are several service categories: Compute (EC2, EC2 Container Service, Elastic Beanstalk, Lambda), Storage & Content Delivery (S3, CloudFront, Elastic File System, Glacier, Snowball, Storage Gateway), Database (RDS, DynamoDB, ElastiCache, Redis), Developer Tools (CodeCommit, CodeDeploy, CodePipeline), Management Tools (CloudWatch, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Trusted Advisor), Security & Identity (Identity & Access Management, Directory Service, Inspector, WAF), Internet of Things (AWS IoT), Game Development (GameLift), Mobile Services (Mobile Hub, Cognito, Device Farm, Mobile Analytics, SNS), and Application Services (API Gateway, AppStream, CloudSearch, Elastic Transcoder, SES). On the right, there is a 'Resource Groups' section with a 'Learn more' link, a description of resource groups, and buttons for 'Create a Group' and 'Tag Editor'. Below that is an 'Additional Resources' section with links for 'Getting Started', 'AWS Console Mobile App', 'AWS Marketplace', and 'AWS re:Invent Announcements'. At the bottom right, there is a 'Service Health' section.

Step 4) Click on Create Stack



Step 5) Choose the option "Upload a template to Amazon S3", Click on "Choose File" and browse to the downloaded template from step 1). click Next

Create stack

Select Template

Specify Details

Options

Review

Select Template

Select the template that describes the stack that you want to create. A stack is a group of related resources that you manage as a single unit.

Design a template Use AWS CloudFormation Designer to create or modify an existing template. [Learn more.](#)

Design template

Choose a template A template is a JSON-formatted text file that describes your stack's resources and their properties. [Learn more.](#)

Select a sample template

Upload a template to Amazon S3

Choose File no file selected

Specify an Amazon S3 template URL

Cancel

Next

Create stack

Select Template

Specify Details

Options

Review

Select Template

Select the template that describes the stack that you want to create. A stack is a group of related resources that you manage as a single unit.

Design a template Use AWS CloudFormation Designer to create or modify an existing template. [Learn more.](#)

Design template

Choose a template A template is a JSON-formatted text file that describes your stack's resources and their properties. [Learn more.](#)

Select a sample template

Upload a template to Amazon S3

Choose File no file selected

Specify an Amazon S3 template URL

[View/Edit template in Designer](#)

Cancel

Next

Step 6) Here provide a stack name that to identify the CloudFormation stack

Step 7) Choose the appropriate values for all the parameters that is listed under the parameter section. There are some default values but can be changed according to the deployment needed. A short description for each parameter is provided to give some information on what the parameter is used for and what values to choose;/./;]. The parameters are split into different sections for convenience. Make sure to provide information for all the parameters. The VPC CIDR cannot be greater than /16 and cannot be less than /28

- Select Template
- Specify Details**
- Options
- Review

Specify Details

Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation templates. [Learn more.](#)

Stack name

Parameters

VPC and Subnets Information

Please enter the VPC specific details here Enter the VPC CIDR that you want to use

PublicSubnet Enter the value of the Public subnet

PrivateSubnet Enter the value of the Private subnet

FortiGate Instance Configuration

FortiGateInstanceType Enter the instance type and size that for the FortiGate

CIDRForFortiGateAccess Enter the CIDR from which FortiGate instances needs to be accessed

AZForFirewall Enter the AZ for the FortiGate

KeyPair Enter the keypair that to associate with the launch of the FortiGate

IP Configuration for the FortiGate Interfaces

PublicIP Enter the IP address for the external interface of the FortiGate1(IP from PublicSubnet)

PrivateInternalIP Enter the IP address for the internal interface of the FortiGate1(IP from PrivateSubnet)

Cancel Previous **Next**

Step 8) Click Next and provide a key name(optional)

Create stack

- Select Template
- Specify Details
- Options**
- Review

Options

Tags

You can specify tags (key-value pairs) for resources in your stack. You can add up to 10 unique key-value pairs for each stack. [Learn more.](#)

	Key (127 characters maximum)	Value (255 characters maximum)	
1	<input type="text"/>	<input type="text"/>	+

Advanced

You can set additional options for your stack, like notification options and a stack policy. [Learn more.](#)

Cancel Previous **Next**

Step 9) Click Create

Create stack

- Select Template
- Specify Details
- Options
- Review**

Review

Template

Template URL <https://s3-external-1.amazonaws.com/cf-templates-1kt28gkesmp-us-east-1/2016175v5h-FortiGate-template5.4.1.template>
Description AWS CloudFormation Template to launch VPC with a FortiGate protecting the resources in the private subnet
Estimate cost Cost

Details

Stack name FortiDemo

VPC and Subnets Information

VPCCIDR 10.0.0.0/16
PublicSubnet 10.0.0.0/24
PrivateSubnet 10.0.1.0/24

FortiGate Instance Configuration

FortiGateInstanceType m3.large
CIDRForFortiGateAccess 0.0.0.0/0
AZForFirewall us-east-1a
KeyPair AS_Virginia

IP Configuration for the FortiGate Interfaces

PublicIP 10.0.0.254
PrivateInternalIP 10.0.1.254
Create IAM resources No

Options

Tags

No tags provided

Advanced

Notification Timeout none
Rollback on failure Yes

Cancel Previous **Create**

Step 10) Wait for the CloudFormation service to finish creating all the resources. The events tab should have the information on what the template is creating. The resources tab should have the information on what resources are created.

The screenshot shows the AWS CloudFormation console interface. At the top, there are buttons for 'Create Stack', 'Actions', and 'Design template'. Below this is a table with columns for 'Stack Name', 'Created Time', 'Status', and 'Description'. One stack is listed: 'FortiDemo', created on '2016-06-23 08:51:18 UTC-0700', with a status of 'CREATE_IN_PROGRESS'. Below the table, there are tabs for 'Overview', 'Outputs', 'Resources', 'Events', 'Template', 'Parameters', 'Tags', 'Stack Policy', and 'Change Sets'. The 'Events' tab is active, showing a log entry for '2016-06-23 08:51:18 UTC-0700' with a status of 'CREATE_IN_PROGRESS', type 'AWS::CloudFormation::Stack', logical ID 'FortiDemo', and status reason 'User Initiated'.

Step 11) Once the stack is created, the Output section would have the login information for the Firewall.

Create Stack Actions - Design template C ⓘ

Filter: Active - By Name: Showing 1 stack

Stack Name	Created Time	Status	Description
FortiDemo	2016-06-23 08:51:18 UTC-0700	CREATE_IN_PROGRESS	AWS CloudFormation Template to launch VPC with a FortiGate protecting the resources in the private subnet

Overview Outputs Resources **Events** Template Parameters Tags Stack Policy Change Sets

2016-06-23	Status	Type	Logical ID	Status reason
08:51:24 UTC-0700	CREATE_IN_PROGRESS	AWS::EC2::VPC	VPC	Resource creation Initiated
08:51:24 UTC-0700	CREATE_IN_PROGRESS	AWS::EC2::InternetGateway	InternetGateway	Resource creation Initiated
08:51:23 UTC-0700	CREATE_IN_PROGRESS	AWS::EC2::VPC	VPC	
08:51:23 UTC-0700	CREATE_IN_PROGRESS	AWS::EC2::InternetGateway	InternetGateway	
08:51:18 UTC-0700	CREATE_IN_PROGRESS	AWS::CloudFormation::Stack	FortiDemo	User Initiated

Create Stack Actions - Design template C ⓘ

Filter: Active - By Name: Showing 1 stack

Stack Name	Created Time	Status	Description
FortiDemo	2016-06-23 08:51:18 UTC-0700	CREATE_IN_PROGRESS	AWS CloudFormation Template to launch VPC with a FortiGate protecting the resources in the private subnet

Overview Outputs **Resources** Events Template Parameters Tags Stack Policy Change Sets

Logical ID	Physical ID	Type	Status	Status Reason
InternetGateway	igw-884b1bec	AWS::EC2::InternetGateway	CREATE_COMPLETE	
VPC	vpc-c00d8aa7	AWS::EC2::VPC	CREATE_COMPLETE	

Create Stack Actions Design template

Filter: Active By Name: Showing 1 stack

Stack Name	Created Time	Status	Description
FortiDemo	2016-06-23 08:51:18 UTC-0700	CREATE_COMPLETE	AWS CloudFormation Template to launch VPC with a FortiGate protecting the resources in the private subnet

Overview Outputs Resources Events Template Parameters Tags Stack Policy Change Sets

Key	Value	Description
Fortigate	https://52.2.95.42	Connecting to the Active Fortigate
Username	admin	Username to Access Fortigate
Password	i-fadd9f66	Password to login Fortigate is the primary instance id

Step 12) Login to the firewall through ssh/https and the firewall can be configured from there.

52.2.95.42

FortiGate VM64-AWSONDEMAND FGTAWS00FADD9F66 admin

Dashboard

- FortiView
- Network
- System
- Policy & Objects
- Security Profiles
- VPN
- User & Device
- WiFi & Switch Controller
- Log & Report
- Monitor

System Information

HA Status:	Standalone [Configure]
Host Name:	FGTAWS00FADD9F66 [Change]
Serial Number:	FGTAWS00FADD9F66
Operation Mode:	NAT
Inspection Mode:	Proxy-based [Change]
System Time:	Thu Jun 23 09:04:12 2016 (FortiGuard) [Change]
Firmware Version:	v5.4.1.build1064 (GA) [Update]
System Configuration:	[Backup] [Restore] [Revisions]
Current Administrator:	admin [Change Password] /2 in Total [Details]
Uptime:	0 day(s) 0 hour(s) 11 min(s)
Virtual Domain:	Disabled [Enable]

License Information

Support Contract	Registration	Not Registered	Register
	IPS & Application Control	Licensed (Expires 2021-01-01)	
	AntiVirus	Licensed (Expires 2021-01-01)	

+ Add Widget Reset Dashboard