Ec2 spin up using Parameter.

1. AWSTemplateFormatVersion: '2010-09-09'
2. Description: "Example template demonstrating parameter referencing"
3. Parameters:
4. InstanceTypeParameter:
5. Type: String
6. Default: t2.micro
7. Description: Enter the EC2 instance type.
8. KeyNameParameter:
9. Type: String
10. Default: my-key-pair
11. Description: Enter the EC2 key pair name.
12. AMIid:
13. Type: AWS::EC2::Image::Id
14. Default: ami-1234567890abcdef0
15. Description: Enter the AMI ID for the EC2 instance.
16. Resources:
17. MyEC2Instance:
18. Type: AWS::EC2::Instance
19. Properties:
20. InstanceType: !Ref InstanceTypeParameter
21. KeyName: !Ref KeyNameParameter
22. ImageId: !Ref AMIid

CommaDelimitedList

* + - AWSTemplateFormatVersion: '2010-09-09'
    - Description: "Example template with a CommaDelimitedList"
    - Parameters:
    - SecurityGroups:
    - Type: CommaDelimitedList
    - Description: The list of SecurityGroupIds in your VPC
    - Default: sg-a123456, sg-b456789
    - Resources:
    - MyEC2Instance:
    - Type: 'AWS::EC2::Instance'
    - Properties:
    - ImageId: ami-0e731c8a588258d0d
    - KeyName: mynewkey
    - SecurityGroupIds: !Ref SecurityGroups

List<Number>

* + - AWSTemplateFormatVersion: 2010-09-09
    - Description: Example template with a List<Number> type parameter
    - Parameters:
    - Numbers:
    - Type: List<Number>
    - Description: List of numbers
    - Default: 1,2,3,4,5
    - BucketName:
    - Type: String
    - Description: Name for the S3 bucket
    - Default: my-example-bucket
    - Resources:
    - MyBucket:
    - Type: 'AWS::S3::Bucket'
    - Properties:
    - BucketName: !Ref BucketName
    - Tags:
    - - Key: Number
    - Value: !Select [2, !Ref Numbers]

AWS SSM parameter

* AWSTemplateFormatVersion: '2010-09-09'
* Description: "Example template demonstrating the usage of AWS SSM Parameter Types"
* Parameters:
* ImageId:
* Type: 'AWS::SSM::Parameter::Value<AWS::EC2::Image::Id>'
* Default: /EC2/AMI\_ID
* Resources:
* MyInstance:
* Type: AWS::EC2::Instance
* Properties:
* ImageId: !Ref ImageId
* InstanceType: t3.micro

Metadata EC2 example

1. AWSTemplateFormatVersion: '2010-09-09'
2. Description: 'Simple CloudFormation template with metadata'
3. Metadata:
4. TemplateMetadata:
5. Description: 'This template defines a simple EC2 instance.'
6. Resources:
7. MyEC2Instance:
8. Type: 'AWS::EC2::Instance'
9. Metadata:
10. ResourceMetadata:
11. Description: 'This EC2 instance is used for testing only'
12. Properties:
13. ImageId: ami-0e731c8a588258d0d
14. InstanceType: t2.micro

AWS CloudFormation Init

1. AWSTemplateFormatVersion: 2010-09-09
2. Description: Example template with CloudInit metadata for an EC2.
3. Resources:
4. MyEC2Instance:
5. Type: 'AWS::EC2::Instance'
6. Metadata:
7. 'AWS::CloudFormation::Init':
8. config:
10. packages:
11. yum:
12. httpd: []
13. files:
14. /var/www/html/index.html:
15. content: |
16. echo "Hello, I am alive";
17. mode: '000755'
18. owner: root
19. group: root
21. services:
22. sysvinit:
23. httpd:
24. enabled: 'true'
25. ensureRunning: 'true'
26. Properties:
27. InstanceType: t2.micro
28. ImageId: ami-0e731c8a588258d0d

AWS CloudFormation Interface

1. AWSTemplateFormatVersion: '2010-09-09'
2. Description: "Template with AWS::CloudFormation::Interface”
3. Parameters:
4. InstanceType:
5. Type: String
6. Description: "Enter the instance type."
7. KeyName:
8. Type: String
9. Description: "Enter the EC2 Key Pair name."
10. ImageId:
11. Type: String
12. Description: "Enter the AMI id"
13. BucketName:
14. Type: String
15. Description: "Enter the S3 Bucket name."
16. Resources:
17. MyEC2Instance:
18. Type: 'AWS::EC2::Instance'
19. Properties:
20. InstanceType: !Ref InstanceType
21. KeyName: !Ref KeyName
22. ImageId: !Ref ImageId
23. MyS3Bucket:
24. Type: 'AWS::S3::Bucket'
25. Properties:
26. BucketName: !Ref BucketName
27. Metadata:
28. AWS::CloudFormation::Interface:
29. ParameterGroups:
30. - Label:
31. default: "Amazon EC2 Configuration"
32. Parameters:
33. - InstanceType
34. - KeyName
35. - ImageId
36. - Label:
37. default: "S3 Bucket Configuration"
38. Parameters:
39. - BucketName
41. ParameterLabels:
42. BucketName:
43. default: "Enter the unique bucket name"

Mapping Example

1. AWSTemplateFormatVersion: '2010-09-09'
2. Description: Deploy an EC2 instance with region-specific AMIs
3. Parameters:
4. InstanceType:
5. Type: String
6. Default: t2.micro
7. AllowedValues:
8. - t2.micro
9. - t2.small
10. Description: Choose the instance type for the EC2 instance.
11. Mappings:
12. RegionAMIMap:
13. us-east-1:
14. AMI: "ami-0e731c8a588258d0d"
15. us-west-2:
16. AMI: "ami-0c20d88b0021158c6"
17. Resources:
18. MyEC2Instance:
19. Type: 'AWS::EC2::Instance'
20. Properties:
21. InstanceType: !Ref InstanceType
22. ImageId: !FindInMap [RegionAMIMap, us-east-1, AMI]