

AWS Landing Zone

AWS Developers Guide

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About This Guide

This developer guide provides information about customizing and extending the AWS Landing Zone solution. It includes information about the AWS Landing Zone configuration ZIP file structure, manifest schema, configuration templates, and pipeline deployment stages.

The guide is intended for IT infrastructure architects, administrators, DevOps professionals, systems integrators, or independent software vendors who want to customize and extend the AWS Landing Zone solution for their company or customers.

AWS Landing Zone Configuration

AWS Landing Zone is deployed and configured by processing a configuration ZIP file through AWS CodePipeline. The following sections describe this process in detail.

AWS CodePipeline Overview

The AWS Landing Zone configuration process leverages Amazon Simple Storage Service (Amazon S3) and AWS CodePipeline.

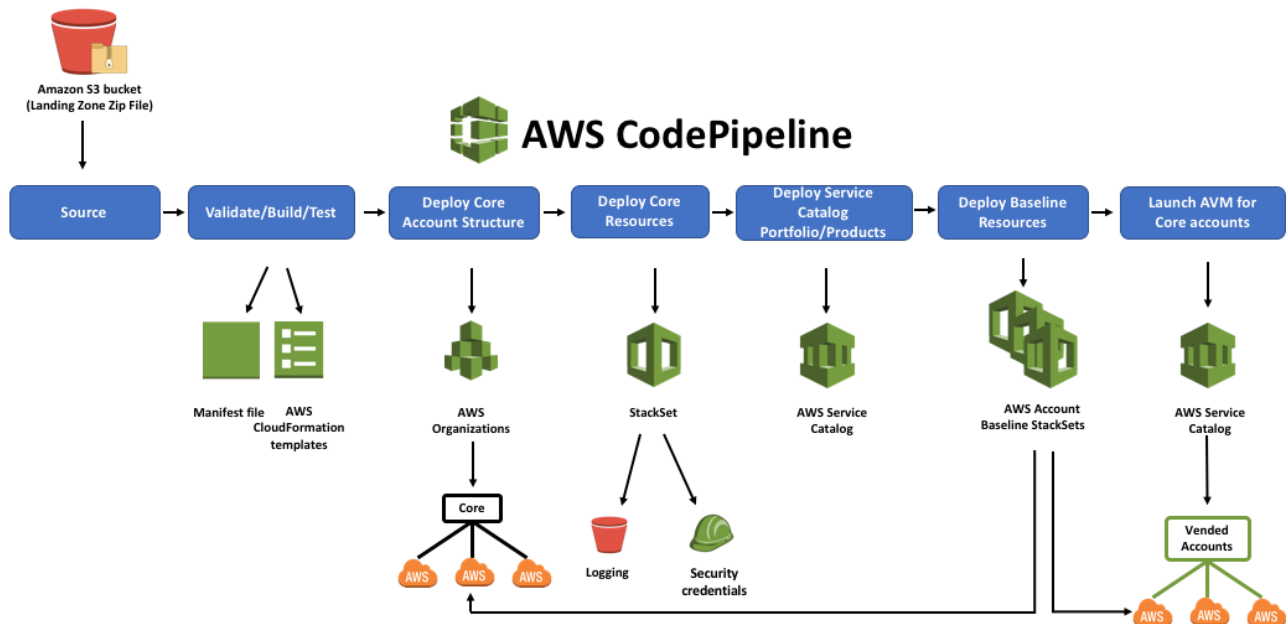


Figure 1: AWS Landing Zone configuration pipeline architecture

A configuration zip file (`aws-landing-zone-configuration.zip`) is loaded in an AWS Landing Zone Amazon S3 bucket (`aws-landing-zone-configuration-[account-id]-[region]`) which provides a manifest and all related templates for describing and implementing a customer's landing zone environment. The manifest describes AWS account structures and dependencies required to implement a customer's account baseline for new and existing accounts. Updating this configuration file triggers the AWS Landing Zone configuration pipeline. The configuration pipeline extracts the manifest and related templates, performs manifest and template validation, and uses sections in the manifest file to execute specific pipeline stages.

Code Pipeline Stages

The AWS Landing Zone configuration pipeline leverages several specific AWS CodePipeline stages for implementing and updating your AWS Landing Zone.

Source Stage

The AWS Landing Zone configuration pipeline source stage monitors a configuration zip file (`aws-landing-zone-configuration.zip`) in an AWS Landing Zone created Amazon

S3 bucket (`aws-landing-zone-configuration-[account-id]-[region]`) for changes. Changes to this object trigger the additional pipeline stages.

Build Stage

The validation stage leverages AWS CodeBuild to perform several checks to validate the AWS Landing Zone configuration file contents. These checks include testing the `manifest.yaml` file YAML syntax and schema. It also checks any included AWS CloudFormation templates using CloudFormation `validate-template` and `cfn_nag`. If the manifest file and AWS CloudFormation templates pass these tests, the pipeline continues to the next stage.

(Optional) Manual Approval Stage

If enabled during AWS Landing Zone initialization, a manual approval step is added to the configuration pipeline. This optional stage provides an additional control over configuration pipeline execution by pausing the pipeline until additional approval is provided to proceed.

Core Accounts Stage

The core account stage triggers the AWS Organizations State Machine to make AWS Organizations API calls to create organizational units and core accounts specified in the [Organizational Units](#) section of the manifest file.

Service Control Policy Stage

The service control policy stage triggers the Service Control Policy State Machine to make AWS Organizations API calls to create service control policies specified in the [Organization Policies](#) section of the manifest file.

Core Resource Stage

The core resource stage triggers the StackSet State Machine to deploy core resources specified in the [Core Accounts](#) section of the manifest file. Core resources are created sequentially in the order in which they appear in the manifest file.

Service Catalog Stage

The service catalog stage triggers the AWS Service Catalog State Machine to create AWS Service Catalog portfolios and products specified in the [Portfolios](#) section of the manifest file.

Baseline Resource Stage

The baseline resource stage triggers the StackSet State Machine to deploy account baseline resources specified in the [Baseline Resources](#) section of the manifest file.

Launch AVM Stage

The launch AVM stage triggers Launch AVM State Machine to automatically apply account baselines to managed accounts by creating or updating AWS Service Catalog AVM products for each account as specified in the [Baseline Resources](#) section of the manifest file.

AWS Landing Zone Manifest File

The AWS Landing Zone manifest file (`manifest.yaml`) is a YAML-formatted text file that describes your AWS Landing Zone core accounts, service control policies, AWS Service Catalog portfolios and products, and configuration baseline resources.

Manifest Overview

The following examples show the manifest file structure and its sections.

```
---
region: String
version: 2018-06-14
lock_down_stack_sets_role: Boolean

organizational_units:
  set of AWS Organization OUs and related core accounts

organization_policies:
  set of managed AWS Organization SCPs

portfolios:
  set of AWS Service Catalog portfolios and products

resources:
  set of account baseline resources
```

Organizational Units

This manifest file section describes the [AWS Organizations](#) structure of your AWS core accounts including related templates that define what core resources you want deployed into these accounts. Core accounts are AWS accounts which contain resources upon which all of your AWS Landing Zone managed accounts will depend. For example, implementing a centralized logging account for securely storing all access logs creates dependencies between this account's storage resources (e.g. Amazon S3 bucket) and all other managed accounts.

Organization Policies

This manifest file section controls the [AWS Organizations Security Control Policies](#) (SCPs) that are applied to the accounts in your organization. This section allows you to specify which Organization Units (OUs) to use when applying SCPs to accounts, however, SCPs are applied

at the account level rather than the OU level. This allows SCPs to be added and removed from specific accounts while baseline configurations are applied rather than to the OU, which would affect all accounts in the OU whether or not changes are being applied to a particular account.

Portfolios

This manifest file section defines the [AWS Service Catalog](#) portfolio and products for account baselining and optional products. Account baselining products are used to apply and update managed account baselines using resources defined in the baseline resource section and account OU membership. Optional products allow AWS administrators to enhance their AWS Landing Zone by deploying optional resources such as Amazon Elasticsearch Service (Amazon ES) for log analytics and reporting.

Baseline Resources

This manifest file section defines the baseline resources that will be automatically configured for OU-grouped managed accounts. For a description of out-of-the-box example configuration baseline resources for many AWS services, see the [AWS Landing Zone User Guide](#).

Manifest Sections

The manifest file is described in detail in this section. Sections in a manifest can be in any order. However, the order of core resources is used to determine execution order for creating AWS Landing Zone core account resource dependencies. For more information, see the [Core Accounts](#) section.

Region

A text string for the AWS Landing Zone default region. This value must be a valid AWS Region name (e.g. us-east-1, eu-west-1, ap-southeast-1). The default region will be used for creating AWS Landing Zone resources (e.g. AWS CloudFormation StackSets, AWS Service Catalog portfolios and products) unless a more resource-specific region is specified.

Version

The AWS Landing Zone manifest schema version number. The current version is 2018-06-14.

Lock_down_stack_sets_role

When an account is created, the AWS Organizations preconfigured role is created (AWSCloudFormationStackSetExecutionRole) and used by AWS Landing Zone to manage StackSet instances. By default, this role allows any IAM principal in the AWS Organizations account with `sts:AssumeRole` permissions to assume this role in a member

account. The `lock_down_stack_sets_role` parameter is required and configures whether or not this role should be locked down to only allow AWS Landing Zone provisioning roles to assume the StackSets execution role. We highly recommend setting this to `true` to avoid inadvertently granting StackSet execution access to users in the AWS Organizations account.

Organizational Units

Specifies the AWS Organizations Organizational Units (OUs), related core accounts to be created in the OU, and core account resources that should be created in each core account.

Syntax

The OUs section consists of the key name `organizational_units` and a set of organizational unit and account definitions. The following pseudo template outlines the OUs section:

```
organizational_units: # List of OUs and related accounts
  - name: String
    include_in_baseline_products: # List of Service Catalog Product
      Names
        - String
    core_accounts:
      - List of core accounts
```

Name

AWS Organizations organization unit (OU) name to be created.

Type: String

Required: Yes

Valid Values: 'a-zA-Z0-9._-' Any other character is automatically replaced with '_'

include_in_baseline_products

List of AWS Service Catalog product names to determine which AWS Landing Zone AVM products to update to include the ability to deploy accounts into this OU.

Condition: This determines which AVM products will be able to select this OU when creating new accounts.

Type: String

Required: Yes

core_accounts

List of [Core Accounts](#) to create in the OU.

Type: [Core Accounts](#)

Required: Optional

Core Accounts

AWS Landing Zone core accounts are defined under the [Organizational Units](#) section of the manifest file using the key name `core_accounts`. The following pseudo template outlines the accounts object:

```
core_accounts: # List of accounts
- name: String
  email: String
  ssm_parameters: # List of SSM parameters
    - name: String
      value: String
  core_resources: # List of resources
```

Name

Name of the core account.

Type: String

Required: Yes

Valid Values: 'a-zA-Z0-9._-' Any other character is automatically replaced with '_'

Email

Email address for the core account.

Type: String

Required: Yes

ssm_parameters

List of SSM parameter key name and value pairs for storing AWS Organizations account creation outputs in SSM parameter store for reference by other core or baseline resources.

```
ssm_parameters: # List of SSM parameters
- name: String
  value: String
```

Type: List of name and value key pairs where name is an SSM parameter store key name string and value is the parameter value string.

Required: Optional

Account variables: When an account is created, the following table lists variables that can be used to store the new account's ID, email, and AWS Organizations ID in SSM parameter store.

Variable	Description
<code>\${AccountId}</code>	Account ID for the related AWS account.
<code>\${AccountEmail}</code>	Account email address for the related AWS account.
<code>\${OrganizationId}</code>	AWS Organizations organization ID.

For example:

```
ssm_parameters: # List of SSM parameters
- name: /org/member/sharedservices/account_id
  value: ${AccountId}
```

core_resources

List of [Core Resources](#) to deploy into the core account. Core resources are sequentially deployed in the order in which they are provided. This allows dependencies between core resources to be managed by listing dependent resources later in the list than the resources they depend upon.

Type: List of [Core Resources](#)

Required: Yes

Core Resources

AWS Landing Zone core account resources are defined under the [Core Accounts](#) section of the manifest file using the key name `core_resources`. The following pseudo template outlines the Core Resources object:

```
core_resources: # List of resources
- name: String
```

```
template_file: String
parameter_file: String
deploy_method: stack_set
ssm_parameters: # List of SSM parameters
  - name: String
  - value: String
```

name

Name to associate with the core account resource.

The provided name is used to provide a more user-friendly name for an account.

Type: String

Required: Yes

Valid Values: 'a-zA-Z0-9._-' Any other character is automatically replaced with '_'

template_file

Location relative to the manifest file for an AWS CloudFormation template for creating core resources.

Type: String

Required: Yes

parameter_file

Location relative to the manifest file for an AWS CloudFormation template parameter file defining the input parameters to use when launching **template_file**.

Type: String

Required: Optional, if the associated AWS CloudFormation template does not have any input parameters.

deploy_method

Deployment method for deploying resource(s) into the account. Currently, `deploy_method` supports deploying resources using the `stack_set` option for deployment through StackSets.

Type: String

Valid Values: `stack_set`

Required: Yes

ssm_parameters

List of SSM parameter key name and value pairs for storing template outputs in SSM parameter store for reference by other core or baseline resources.

```
ssm_parameters: # List of SSM parameters
- name: String
  value: String
```

Type: List of name and value key pairs where name is an SSM parameter store key name string and value is the parameter value string.

Valid Values: Any string or the `[$[output_CfnOutputVariable]` variable where **CfnOutputVariable** corresponds to the template output variable.

Required: Optional

For example, the following template snippet will store the template VPCID output variable into the `/org/member/sharedservices/vpc_id` SSM parameter key.

```
ssm_parameters: # List of SSM parameters
- name: /org/member/sharedservices/vpc_id
  value: $[output_VPCID]
```

Organizational Policies

Specifies the AWS Organizations SCPs to be created in each core account.

Syntax

The Organizational Policies section consists of the key name `organizational_policies`. The following pseudo template outlines the Organizational Policies section:

```
organization_policies: # List of policies
- name: String
  description: String
  policy_file: String
  apply_to_accounts_in_ou: # List of Strings
    - String
```

name

Name for the AWS Organizations SCP.

Type: String

Required: Yes

Valid Values: 'a-zA-Z0-9._-' Any other character is automatically replaced with '_'

description

Description for the AWS Organizations SCP.

Type: String

Required: Optional

policy_file

Location relative to the manifest file for a file containing the SCP policy to apply.

Type: String

Required: Yes

apply_to_accounts_in_ou

List of OUs to apply to accounts in this OU. AWS Landing Zone applies SCPs at the account level rather than the OU level. This allows SCPs to be added and removed to specific accounts while baseline configurations are applied rather than to the OU (which would affect all accounts in the OU). This option allows OU membership to determine which accounts the SCP will be applied to.

Type: List of OU names

Required: Optional

Portfolios

Specifies the AWS Service Catalog portfolios and products to be created in the organizations account.

Syntax

The Portfolios section consists of the key name `portfolios`. The following pseudo template outlines the Portfolios section:

```
portfolios: # List of portfolios
- name: String
```

```
description: String
owner: String
principal_role: String
products: # List of products to add to portfolio
  - List of products
```

name

Name for the AWS Service Catalog portfolio.

Type: String

Required: Yes

Valid Values: 'a-zA-Z0-9._-' Any other character is automatically replaced with '_'

description

Description for the AWS Service Catalog portfolio.

Type: String

Required: Optional

owner

Name to provide AWS Service Catalog for the portfolio owner field.

Type: String

Required: Optional

principal_role

IAM Role Arn to grant initial access to the portfolio in AWS Service Catalog.

Type: String

Required: Optional

products

List of AWS Landing Zone AWS Service Catalog [Products](#).

Type: List of [Products](#)

Required: Optional

Products

AWS Service Catalog products are defined under the [Portfolios](#) section of the manifest file using the key name `products`. The following pseudo template outlines the Products object:

```
products: # List of products to add to portfolio
  - name: String
    description: String
    product_type: String
    template_file: String
    parameter_file: String
    skeleton_file: String
    ssm_parameters: # List of SSM parameters
      - name: String
        value: String
    hide_old_versions: Boolean
    launch_constraint_role: String
    apply_to_accounts_in_ou: #List of Strings
      - String
```

name

Name to use for the AWS Service Catalog product name.

Type: String

Required: Yes

Valid Values: 'a-zA-Z0-9._-' Any other character is automatically replaced with '_'

description

Description for the AWS Service Catalog product.

Type: String

Required: Optional

product_type

Determines whether the product is an account configuration baseline or an optional product containing optional AWS Landing Zone resources.

Type: String

Required: Yes

Valid Values: baseline or optional

template_file

Location relative to the manifest file for a base AWS CloudFormation template for creating the AWS Service Catalog product.

Type: String

Required: Required if `product_type = optional`

parameter_file

Relative location to the AWS CloudFormation template parameter file defining the input parameter defaults for the AWS Service Catalog product.

Type: String

Required: Required if `product_type = baseline`

skeleton_file

Relative location a Jinja2 skeleton template that will be combined with the **template_file** if `product_type = optional` or **parameter_file** if `product_type = baseline` to create the final AWS Service Catalog product.

Type: String

Required: Yes

ssm_parameters

List of SSM parameter key name and value pairs for storing template outputs in SSM parameter store for reference by other core or baseline resources.

```
ssm_parameters: # List of SSM parameters
- name: String
  value: String
```

Type: List of name and value key pairs where name is an SSM parameter store key name string and value is the parameter value string.

Valid Values: Any string or the `$(output_CfnOutputVariable)` variable where **CfnOutputVariable** corresponds to the template output variable.

Required: Optional

For example, the following template snippet will store the template `ESCluster` output variable into the `/org/centralizedlogging/elasticsearch_cluster` SSM parameter key.

```
ssm_parameters: # List of SSM parameters
- name: /org/centralizedlogging/elasticsearch_cluster
  value: ${output_ESCluster}
```

hide_old_versions

Configures whether or not AWS Landing Zone will hide previous versions of the product in AWS Service Catalog when a new product version is deployed.

Type: String

Required: Yes

launch_constraint_role

IAM role ARN to be used for the AWS Service Catalog product launch constraint.

Type: String

Required: Yes

apply_to_accounts_in_ou

List of OUs to automatically create or update product instances for each account in the OU. AWS Landing Zone applies baseline configurations by launching AWS Service Catalog baseline products for accounts. This option allows OU membership to determine which accounts baseline products will be applied to.

Type: List of OU name strings

Required: Optional

Baseline Resources

Specifies the AWS Landing Zone account baseline configuration for managed accounts.

Syntax

The baseline resources section consists of the key name `baseline_resources`. The following pseudo template outlines the Resources section:

```
baseline_resources: # List of account baseline resources
```

```
- name: String
  baseline_products: #List of SSM parameter key names
    - String
  depends_on: # List of account baseline resource names
    - String
  template_file: String
  parameter_file: String
  deploy_method: String
  regions: # List of Strings
    - String
```

name

Name to associate with the account baseline resources. The provided name is used as part of creating the StackSet name for this baseline configuration.

Type: String

Required: Yes

Valid Values: 'a-zA-Z0-9._-' Any other character is automatically replaced with '_'

baseline_products

List of key names for AWS Landing Zone AWS Service Catalog AVM products to associate with this configuration resource. This option allows customers to maintain different account baselines by associating a configuration resource with unique, multiple, or different accounts created by different AVM products.

Type: List of AWS Service Catalog name strings

Required: Yes

depends_on

List of baseline resource names that this resource depends on. This option is used to define baseline resource dependencies to control the order in which baseline resources are deployed to managed accounts.

Type: String

Required: Optional

template_file

Relative location to the AWS CloudFormation template for creating core resources.

Type: String

Required: Yes

parameter_file

Relative location to the AWS CloudFormation template parameter file defining the input parameters required by **template_file**. This is optional if the associated AWS CloudFormation template does not have any input parameters.

Type: String

Required: Optional

deploy_method

Deployment method for deploying the associated AWS CloudFormation template.

Conditional: Currently `deploy_method` supports deploying AWS CloudFormation templates using the `stack_set` option for deployment through StackSets.

Type: String

Required: Yes

Valid Values: `stack_set`

regions

List of regions where this baseline resource should be deployed.

Type: Any AWS commercial region name as well as **All** to indicate that this resource should be deployed into all regions.

Required: Yes

Appendix A: Solution Extensibility

The AWS Landing Zone solution allows you to modify the `manifest.yaml` file to add custom resources, add or delete AWS Service Catalog optional products, add, update, or delete core and baseline resources, and add or remove core accounts. You can add or modify the templates in the ZIP file folders, or create your own folders, and reference these templates or folders in the `manifest.yaml` file. Doing this can help you distinguish your customized templates and security baselines from the out-of-the-box AWS Landing Zone configurations.

Note that if you update the solution provided templates you don't have to update the manifest file. However, if you add or delete templates and folders to the manifest file, you must ZIP the manifest file and all associated templates and upload the ZIP file to the AWS Landing Zone Amazon S3 configuration bucket for your changes to be applied.

Add or Remove Organizational Unit

To add new OU, you must add the OU in the manifest file **organizational_units:** section

```
organizational_units:
  - name: production
    include_in_baseline_products:
      - AWS-Landing-Zone-Account-Vending-Machine
```

- To add or remove an OU, create or delete the **- name: ou_name** section.

Add or Remove Core Accounts

To add new Core account, you must add the account information in the manifest file **accounts:** section

```
organizational_units:
  - name: core
    core_accounts:
      - compliance:
          email: email+compliance@company.com
          ssm_parameter:
            - name: /accounts/compliance/account_id
              value: ${AccountId}
```

- To remove the compliance account, delete the **-compliance:** section.

Add, Update, or Remove Core Account Resources

To add or update core account resources, you must do the following:

- Update the template file in the **templates/core_accounts** folder (or add a new template in a folder of your choosing)
- Update the parameters file in the **parameters/core_accounts** folder (or add a new parameter file in a folder of your choosing)
- Add/update the section in the manifest file **organizational_units:name: core_accounts:core_resources** section

```
organizational_units:
  - name: core
```

```

- core_accounts:
  - compliance:
    email: email+compliance@company.com
    ssm_parameter:
      - name: /accounts/compliance/account_id
        value: ${AccountId}
    core_resources:
      - name: ComplianceMonitoring
        template_file: templates/custom/compliance-
monitoring.template
        parameter_file: parameters/custom/compliance-
monitoring.json
        deploy_method: stack_set
        regions:
          - us-east-1
        ssm_parameters:
          - name: /org/member/compliance/resource_name
            value: ${output_ComplianceResource}

```

Add, Update, or Remove Account Baseline Resources

To add or update account baseline configurations, you must do the following:

- Update the template file in the **templates/aws_baseline** folder (or add a new template in a folder of your choosing)
- Update the parameters file in the **parameters/aws_baseline** folder (or add a new parameter file in a folder of your choosing)
- Add/update the section in the manifest file **baseline_resources** section

```

baseline_resources:
- name: EnableCloudTrail
  # This resource is part of which baseline(s) product
  baseline_products:
    - AWS-Landing-Zone-Account-Vending-Machine
  template_file: templates/aws_baseline/aws-landing-zone-enable-
cloudtrail.template
  parameter_file: parameters/aws_baseline/aws-landing-zone-enable-
cloudtrail.json
  deploy_method: stack_set

```

Add, Update, or Remove AWS Service Catalog Products

To add or delete optional AWS Service Catalog products, you must do the following:

- Add or update the template and template skeleton files in the **templates/optional_products** folder (or add a new template and skeleton file in a folder of your choosing)

- Update the manifest file **portfolios** section

```
portfolios:
  - name: My_Portfolio_Name
    description: My awesome portfolio of products
    owner: My Company
    principal_role:
      $[alfred_ssm_/org/primary/service_catalog/principal/role_arn]
    # These products will prompt the user to select target Account
    Email and Region
    products:
      - name: My_Product_Name
        description: Description for my product
        template_file: templates/my_products/my-product.template
        skeleton_file: templates/my_products/my-product-
skeleton.template.j2
        ssm_parameters:
          - name: /ssm_parameter_to_store
            value: $[output_MyProductOutput]
          # Hide/Disable the old version of the product in Service
          Catalog
            hide_old_versions: true
            product_type: optional
            launch_constraint_role:
              $[alfred_ssm_/org/primary/service_catalog/constraint/role_arn]
```

Add, Update, or Remove AWS Organizations Policies

To add, modify or delete optional AWS Organizations policies, you must do the following:

- Add or update the policy file in the **policies/** folder (or add a new policy file in a folder of your choosing)
- Update the manifest file **organization_policies** section

```
organization_policies:
  - name: policy-name
    description: Description for my policy
    policy_file: policies/my_new_scp_for_production.json
    apply_to_accounts_in_ou:
      - production
```

Appendix B: Using Git for Configuration Source Control

AWS Landing Zone configuration and updates are managed through a configuration ZIP file stored in a configuration Amazon S3 bucket. Changes to this file trigger the configuration and update pipeline to make changes to your AWS Landing Zone. Customers may want to leverage a source control system like Amazon CodeCommit or GitHub for managing their configuration files. To move from an Amazon S3 bucket to Git for configuration source control, perform the following steps:

1. Create an [Amazon CodeCommit](#) in your AWS Organizations account or a GitHub repository.
2. Connect to your new [Git repository](#).
3. Download and extract your AWS Landing Zone configuration zip file from the AWS Landing Zone configuration bucket to the new Git repository. Make sure that you extract the file contents to the base of the Git repository and **not** in a folder called `aws-landing-zone-configuration/`.
4. Navigate to the AWS CodePipeline [console](#) in your AWS Organizations account.
5. Select the **AWS-Landing-Zone-CodePipeline** pipeline.
6. Select **Edit**.
7. In the first stage (**Source**), edit the **Source** action.
8. **Change** the source provider to Amazon CodeCommit or GitHub
9. Configure Amazon CodeCommit repository name and branch or connect to GitHub
10. Configure **Output artifact #1** = SourceApp
11. Select **Update**.
12. Changes you commit to your Git repo will now trigger the update pipeline to push changes to your AWS Landing Zone configuration.

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