How To Add Required Tags to Resources in Substrate

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Document Level Classification

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- Helm Chart Tags Using epic-app
- To understand the required tags, optional tags and appropriate tag values, refer to Tagging AWS Resources in Substrate.
- Kubernetes Annotations
- Terraform Provider Tags

Helm Chart Tags Using epic-app

For users to add tags to Substrate application, add the required and optional tags under the "resourceTags" block as shown below:

```
epic-app:

  resourceTags:
    service: "<name of the service>"
    owner: "<name of the owner>"
```

```
    contact: "<email of the owner>"
    euid: "<EUID in Epic's service catalog>"    # Add custom lables to
```

To understand the required tags, optional tags and appropriate tag values,

refer to [Tagging AWS Resources in Substrate](#).

For more examples refer to the [epic-app repo](#).

Kubernetes Annotations

One method for getting infrastructure tagged is to bake the requirement to include the tags into the [epic-app](#) helm chart. There is an Annotation for the `alb.ingress.kubernetes` ingress object that allows for tagging of the AWS resource:

https://kubernetes-sigs.github.io/aws-load-balancer-controller/v2.2/guide/ingress/annotations/#tags

The AWS Load Balancer Controller will automatically apply following tags to AWS resources(ALB/TargetGroups/SecurityGroups) created:

- `elbv2.k8s.aws/cluster: ${clusterName}`
- `ingress.k8s.aws/stack: ${stackID}`
- `ingress.k8s.aws/resource: ${resourceID}`

In addition, you can use annotations to specify additional tags [alb.ingress.kubernetes.io/tags](#) specifies additional tags that will be applied to AWS resources created.

Example:

```
alb.ingress.kubernetes.io/tags: Environment=dev,Team=test
```

Terraform Provider Tags

For users of Terraform, there are the default tags construct that was introduced in the v3.38.0 AWS Terraform provider https://www.hashicorp.com/blog/default-tags-in-the-terraform-aws-provider. By setting the `default_tags` block in the AWS provider, all infrastructure that supports tagging that is deployed by that provider will be tagged.

Even with both of the above strategies being used, there will still be manual work required to get any remaining infrastructure tagged. This will be a one-time effort undertaken by the team responsible for rolling out these control.

Most Terraform setups have a `providers.tf` or similar. Within that file, or wherever the provider is defined, you may add default tags like so:

The tags under the `default_tags` block will be added to all resources created under the aws provider. You will notice two resources below the default tags which define their own Name tags. These will be added in addition to the default tags. If there is a conflict, i.e. a separate Name tag defined both under `default_tags` and separately under a resource and they have different values, then the resource one will take precedence.

```
provider "aws" {
 default_tags {
   tags = {
     Environment = "Test"
     Owner       = "TFProviders"
     Project     = "Test"
   }
 }
```

```
}
resource "aws_vpc" "example" {
 cidr_block = "10.1.0.0/16"
 tags = {
   Name = "my-vpc-resource"
 }
}
resource "aws_subnet" "example" {
 cidr_block = "10.1.1.0/24"
 vpc_id     = aws_vpc.test.id
 tags = {
   Name = "my-subnet-resource"
 }
}
```

Note: For auto-scaling groups, default tags would work differently. It is recommended to merge the default tags into the resource's tags. This is due to the dynamic nature of resources created with auto scaling groups.

```
variable "default_tags" {
  default     = {

     Environment = "Test"
     Owner       = "TFProviders"
     Project     = "Test"

}
  description = "Default Tags for Auto Scaling Group"
  type        = map(string)
}

resource “aws_autoscaling_group”  "example" {
```

```
  # ... other configuration ...
  # This configuration combines some "default" tags with optionally pro

  tags = merge(
    var.default_tags,
    {
     Name = "MyASG"
    },
  )
}
```

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