## Release Description

The following features were included in the 2021.04 release:

### Shared Modules:

* Update IAM module with example roles to help grant least privilege
* Terraform module for AWS EMR
* Terraform module for AWS Autoscaling Group

### Operational Reliability, Compliance with Optum Tech and Process Improvements

* When to use On-demand EMR or AWS Glue for Spark jobs
* Create solution for being able to run Service jobs that last over 2 hours

### Cloud Custodian

* Auto-remediation of S3 buckets not configured with secure data transport policy or server-side

## Feature Descriptions, Documentation Links and Outcomes

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| **Rally Feature ID** | **Feature Description** | **Owner** | **Objectives** | **Outcomes** |
| [**F108787**](https://rally1.rallydev.com/#/380432281308d/portfolioitemstreegrid?detail=/portfolioitem/feature/483305400336)  [**F115596**](https://rally1.rallydev.com/#/380432281308d/portfolioitemstreegrid?detail=/portfolioitem/feature/515158833748)  [**F115597**](https://rally1.rallydev.com/#/380432281308d/portfolioitemstreegrid?detail=/portfolioitem/feature/515160007756)  [**F115598**](https://rally1.rallydev.com/#/380432281308d/portfolioitemstreegrid?detail=/portfolioitem/feature/515160010860)  [**F115600**](https://rally1.rallydev.com/#/380432281308d/portfolioitemstreegrid?detail=/portfolioitem/feature/515160502016) | Update IAM module with example roles to help grant least privilege | CCOE Team | Provide terraform code for sample IAM roles like:   * Service Role * US/Non-US Developer Roles * US/Non-US Data Analyst Roles * Infrastructure/Content Developers * SignalFx | 5 roles were created.  [Update IAM module with example roles to help grant least privilege](https://github.optum.com/oaccoe/aws_iam/tree/master/examples) |
| [**F109641**](https://rally1.rallydev.com/#/380432281308d/timeboxes?detail=/portfolioitem/feature/486907857200&timeboxType=Release) | When to use On-demand EMR or AWS Glue for Spark jobs | R Arunkumar | Provide recommendation on when to use On-demand EMR or AWS Glue for Spark jobs | Recommendations logged here: https://cloudpoc.optum.com/docs/aws-glue-emr-comparison |
| [**F109153**](https://rally1.rallydev.com/#/380432281308d/portfolioitemstreegrid?detail=/portfolioitem/feature/483991121972) | Terraform module for AWS EMR | R Arunkumar | Create Terraform module for AWS EMR | [Terraform module for AWS EMR](https://github.optum.com/oaccoe/aws_emr) |
| [**F114584**](https://rally1.rallydev.com/#/380432281308d/portfolioitemstreegrid?detail=/portfolioitem/feature/511417306904) | Terraform Module for AWS Autoscaling Group | Atchaya Saminathan | Create Terraform Module for AWS Autoscaling Group | [Terraform module for AWS Autoscaling Group](https://github.optum.com/oaccoe/aws_autoscalinggroup) |
| [**F105418**](https://rally1.rallydev.com/#/380432281308d/portfolioitemstreegrid?detail=/portfolioitem/feature/457622609488) | Create solution for being able to run Service jobs that run over 2 hours | Pravin Kumar | The purpose of this feature is to create a solution that allows service jobs to run over 2 hours | [Create solution for being able to run Service jobs that last over 2 hours](https://cloudpoc.optum.com/docs/doc20) |
| [**F114410**](https://rally1.rallydev.com/#/380432281308d/portfolioitemstreegrid?detail=/portfolioitem/feature/509615286680) | Cloud Custodian: Auto-remediation of S3 buckets not configured with secure data transport policy or server-side encryption | CCOE Team | The purpose of this feature is to prevent launchpad violations for S3 buckets that get created automatically | [Cloud Custodian: Auto-remediation of S3 buckets not configured with secure data transport policy or server-side encryption](https://github.optum.com/oaccoe/cloudcustodian/tree/master/policies) |