* **AWS Design & Migration** 
  + Configure IAM
  + Design & implement Account and VPC strategy
  + Set up and configure bastion host(s)
  + Migrate existing resources (S3, SNS, SQS, lambdas, API Gateway configs, etc) from Legacy Monsanto AWS to newly designed AWS environment
  + Designed solution will meet ISO CSR Controls
* **App Container/ Serverless Epic** 
  + Set up and configure ECS Fargate solution
  + Create migration strategy for CloudFoundry to ECS with Fargate or similar & moving of AWS Lambdas to environment
  + Test and confirm migration of sample set of services (up to 25.)
  + Deployment and configuration of new Jenkins instance to support sample set of applications and migration as listed above.
  + Migrate Cloudfront from legacy AWS environment to the new account structure
  + Set up and configure Service Discovery in ECS/Fargate
* **Database Services & Compliance Epic** 
  + Develop and operationalize a strategy to move databases into net new AWS account. Test and confirm migration of sample set of databases (up to 10 (postgres, aurora, redis)).
    - Potential solutions - Snapshots, VCP Peering, Postgres dump/restore
  + Supplier will review current processes and implement solutions for SOX adherence
  + Migrate Elasticache instances from legacy environment to new AWS account structure
  + Analyze and implement an alternative for the current Event Store Database
* **Messaging Platform Epic**
  + Perform analysis and implement a solution for refactoring from current Kafka instance to one or multiple of the following technologies:
    - AWS MKS
    - Confluent Kafka as a Service
    - AWS Kinesis
    - Dedicated Kafka Instance
* **API Management Epic**
  + Evaluate, plan and migrate from Bayer’s Akana/Ocelot to independent instances
  + Evaluate API Gateway and Ping integration
  + Set up proof of concept of similar solution if API Gateway does not satisfy Bayer needs.
* **Secrets Management Epic**
  + Conduct discovery and analysis on current Vault implementation and make recommendations for replacing Jumpbox and Secrets storage
  + Set up AWS secret manager and integrate with Bayer services.
  + Migrate data from Vault to VCT Segret Manager (eg. AWS Secret Manager)
  + Deployment and integration testing with selected secret manager (E.g. AWS Secret Manager) to ensure rotation of keys between VCT and POD platforms
  + Build test environment to support jumpbox and rotation of keys
  + Develop Database credential rotation automation
  + Implement AWS SSM Parameter Store or similar solution
* **Identity and Access Management Epic**
  + Develop and implement tool migration plan from Bayer Ping to a “cost per use” based solution that supports OAuth2 and SAML such as AWS Cognito
  + Design and implement RBAC and group authentication policies/controls
  + Implement an entitlement management solution to replace existing Value Capture solution
    - Integrate into new IDM
    - Migrate legacy entitlements to new account structure
    - Ping integration with SAML until cutover
  + Develop a migration strategy to migrate users from Ping to Cognito or like solution
* **Monitoring & Logging Epic**
  + Analysis between maintaining an ELK stack and using Splunk Cloud
  + Design baseline dashboards in selected logging tool (E.g. ELK or Splunk)
  + Configure CloudWatch Alerts and centralized logging

Set up and configure agreed upon monitoring and logging solution

* **DevOps Tools Epic**
  + Build and deploy Cloud versions of Jira and GitHub Enterprise
  + Create new instances of Nexus, NPM, and migration from existing Bayer infrastructure