**Title:** Provision AWS Infrastructure for Regulatory Capital Software

**Story:** As a member of the Regulatory Capital Software development team, I want to have a robust and scalable AWS infrastructure in place to ensure the efficient deployment and operation of our software. This will enable us to meet regulatory requirements and deliver a secure and high-performance solution.

**Acceptance Criteria:**

1. **Environment Setup:**
   * Define AWS environment specifications (e.g., regions, VPCs, subnets) to align with regulatory compliance standards.
   * Establish separate environments for development, testing, and production.
2. **Compute Resources:**
   * Provision EC2 instances with appropriate specifications for the Regulatory Capital Software components.
   * Configure auto-scaling groups to ensure scalability during peak loads.
3. **Storage Configuration:**
   * Set up Amazon RDS for database storage, considering encryption and backup strategies.
   * Configure Amazon S3 buckets for storing static assets and backups.
4. **Security Measures:**
   * Implement IAM roles and policies for secure access to AWS resources.
   * Configure security groups and network ACLs to control traffic.
5. **Monitoring and Logging:**
   * Implement CloudWatch for monitoring key metrics and setting up alerts.
   * Configure AWS CloudTrail for auditing and logging.
6. **Deployment Automation:**
   * Establish a CI/CD pipeline for the Regulatory Capital Software deployment.
   * Utilize AWS CodeDeploy or similar tools for automated deployments.
7. **Backup and Disaster Recovery:**
   * Implement regular backups for critical data stored in AWS.
   * Develop a disaster recovery plan to ensure data integrity and availability.

**Definition of Done:**

* All infrastructure components are provisioned and configured according to specifications.
* The infrastructure meets regulatory compliance standards.
* Automated deployment processes are tested and functional.
* Monitoring and alerting systems are in place.
* Documentation is updated to reflect the new infrastructure setup.

This user story provides a clear goal and outlines specific tasks and criteria that need to be fulfilled to consider the user story complete. Adjust the details based on your team's specific needs and the regulatory requirements applicable to your project.

**Title:** Migrate Regulatory Capital Software to Sparktacus 2.2 and Spark 2.2 on Santander AWS

**Story:** As a member of the Regulatory Capital Software development team, I want to migrate our software to Sparktacus version 2.2 and Spark version 2.2, hosting it on the Santander AWS infrastructure. This migration aims to take advantage of the Santander AWS environment's scalability, security, and reliability while ensuring regulatory compliance and efficient software operation.

**Acceptance Criteria:**

1. **Environment Setup:**
   * Collaborate with Santander AWS team to define AWS environment specifications, ensuring alignment with regulatory compliance standards.
   * Configure AWS environment with the necessary resources, such as VPCs, subnets, security groups, and IAM roles.
2. **Sparktacus 2.2 and Spark 2.2 Migration:**
   * Update Sparktacus and Spark dependencies and configurations to versions 2.2.
   * Verify and adapt existing Sparktacus and Spark-related code and functionalities to be compatible with versions 2.2.
   * Conduct thorough testing to ensure Sparktacus 2.2 and Spark 2.2 integration does not introduce regressions.
3. **Deployment to Santander AWS:**
   * Utilize AWS services such as EC2 instances, Amazon RDS, and S3 buckets for hosting the Regulatory Capital Software.
   * Configure auto-scaling groups to ensure scalability during peak loads.
   * Implement security measures, including IAM roles, security groups, and encryption, in accordance with Santander AWS security standards.
4. **Performance Optimization:**
   * Leverage Santander AWS features for performance optimization, considering options such as AWS Lambda, Amazon Redshift, or other relevant services.
   * Conduct benchmarking and performance testing to ensure the Regulatory Capital Software meets or exceeds performance expectations in the Santander AWS environment.
5. **Documentation Update:**
   * Update all relevant documentation, including README files, installation guides, and user manuals, to reflect changes made during the migration to Santander AWS.

**Definition of Done:**

* The Regulatory Capital Software successfully runs on Sparktacus 2.2 and Spark 2.2 within the Santander AWS environment without critical issues.
* Comprehensive testing, including unit tests, integration tests, and system tests, is completed and passes successfully.
* Performance benchmarks meet or exceed expectations in the Santander AWS environment.
* Documentation is updated and accurate.
* Stakeholders are informed and trained on any changes introduced by the migration.

This user story outlines the migration process, including steps specific to the Santander AWS environment. Adjust the details based on your specific requirements and the nuances of your Santander AWS setup.

**Title:** Migrate Data Sources to Santander AWS for Regulatory Capital Components

**Story:** As a member of the Regulatory Capital Software development team, I want to migrate data sources for Engines, RRDS, SAS, and EC components to the Santander AWS environment. This migration aims to leverage the scalability, security, and reliability of Santander AWS while ensuring seamless integration and compliance with regulatory standards.

**Acceptance Criteria:**

1. **Data Source Assessment:**
   * Conduct a comprehensive assessment of current data sources for Engines, RRDS, SAS, and EC components.
   * Identify and document dependencies, configurations, and access requirements for each data source.
2. **AWS Environment Configuration:**
   * Collaborate with Santander AWS team to define AWS environment specifications for data storage and processing.
   * Configure AWS resources such as S3 buckets, Amazon RDS, and any necessary data processing services.
3. **Engines Data Migration:**
   * Analyze and migrate data sources related to Engines component, ensuring compatibility with Santander AWS services.
   * Verify the integrity and accuracy of data after migration.
4. **RRDS Data Migration:**
   * Analyze and migrate data sources related to RRDS component, considering any specific data structures or formats.
   * Validate that data relationships within RRDS are maintained after migration.
5. **SAS Data Migration:**
   * Analyze and migrate data sources related to SAS component, taking into account any transformation or preprocessing requirements.
   * Ensure that SAS-specific data configurations are successfully replicated in the Santander AWS environment.
6. **EC Data Migration:**
   * Analyze and migrate data sources related to EC component, considering any dependencies on other components.
   * Validate that data consistency is maintained across the EC component after migration.
7. **Integration Testing:**
   * Perform integration testing to ensure that the migrated data sources seamlessly integrate with the respective Regulatory Capital Components.
   * Address and resolve any issues identified during testing.
8. **Documentation Update:**
   * Update documentation to reflect changes made during the data migration process, including configuration details and any adjustments made for compatibility.

**Definition of Done:**

* Data sources for Engines, RRDS, SAS, and EC components are successfully migrated to Santander AWS.
* Integration testing is completed, and all components interact seamlessly with the migrated data sources.
* Documentation is updated, accurate, and reflects the new Santander AWS data source configurations.
* Stakeholders are informed and trained on any changes introduced by the data migration.

This user story outlines the migration process for each specific Regulatory Capital Component, taking into account the nuances and dependencies of Engines, RRDS, SAS, and EC. Adjust the details based on your specific requirements and the characteristics of your data sources.

**Title:** Implement Project Governance for Regulatory Capital Components Migration to Santander AWS

**Story:** As a member of the Regulatory Capital Software development team, I want to establish effective project governance tasks to ensure the successful migration of the Regulatory Capital Components to the Santander AWS environment. This includes setting up a Project Tracker, Project Planning, Steering Meetings Support, Process Design, Security Assessment, and Test Strategy. This governance framework will provide structure, coordination, and oversight to the migration project.

**Acceptance Criteria:**

1. **Project Tracker Setup:**
   * Establish a centralized Project Tracker to monitor and track progress throughout the migration project.
   * Configure the tracker to include key milestones, tasks, timelines, and responsible team members.
   * Ensure real-time visibility into project status, allowing stakeholders to track progress.
2. **Project Planning Setup:**
   * Develop a comprehensive project plan outlining tasks, dependencies, and timelines for the Regulatory Capital Components migration.
   * Collaborate with stakeholders to define and document project objectives, scope, and success criteria.
   * Ensure alignment of the project plan with Santander AWS migration guidelines.
3. **Steering Meetings Support:**
   * Schedule and facilitate regular steering meetings to provide project updates, address challenges, and make key decisions.
   * Prepare meeting agendas, distribute relevant documentation, and record meeting minutes.
   * Provide ongoing support to steering committee members and stakeholders.
4. **Process Design:**
   * Collaborate with relevant teams to design and document migration processes for each Regulatory Capital Component.
   * Define clear workflows, responsibilities, and handovers to ensure a smooth migration process.
   * Incorporate feedback from stakeholders to refine and improve the migration processes.
5. **Security Assessment:**
   * Conduct a thorough security assessment of the Regulatory Capital Components in the context of Santander AWS.
   * Identify and address any security vulnerabilities, ensuring compliance with Santander AWS security standards.
   * Implement security measures and controls to protect sensitive data during and after migration.
6. **Test Strategy:**
   * Develop a comprehensive test strategy for validating the migrated Regulatory Capital Components in the Santander AWS environment.
   * Define test scenarios, criteria, and methodologies for functional, performance, and security testing.
   * Collaborate with testing teams to execute the defined test strategy and address any identified issues.

**Definition of Done:**

* Project Tracker, Project Planning, Steering Meetings Support, Process Design, Security Assessment, and Test Strategy are successfully implemented.
* Project stakeholders are trained on using the Project Tracker and understanding the overall project plan.
* Steering meetings are conducted regularly, and decisions are documented and communicated.
* Documented migration processes are available, and feedback has been incorporated.
* Security assessment is completed, and necessary security measures are implemented.
* Test strategy is executed, and all components pass the defined testing criteria.

This user story outlines the governance tasks necessary for the migration project, providing a structured approach to ensure successful execution. Adjust the details based on your specific project requirements and Santander AWS guidelines.

**User Story:**

**Title:** Conduct Analysis and Design for Regulatory Capital Components Migration to Santander AWS

**Story:** As a member of the Regulatory Capital Software development team, I want to perform thorough analysis and design tasks to ensure a successful migration of Regulatory Capital Components to the Santander AWS environment. This includes conducting AS IS Analysis, developing a Priority Roadmap, assessing Data Sources, and designing the TO BE Solution. These tasks will provide a solid foundation for the migration process.

**Acceptance Criteria:**

1. **AS IS Analysis:**
   * Conduct a comprehensive AS IS Analysis of the current Regulatory Capital Components, identifying existing infrastructure, dependencies, and performance metrics.
   * Document the current state of data sources, systems, and interconnections.
   * Identify potential challenges and opportunities associated with the existing setup.
2. **Priority Roadmap:**
   * Collaborate with stakeholders to define priorities and critical milestones for the migration project.
   * Develop a Priority Roadmap outlining the sequence of migration activities based on dependencies, business impact, and regulatory considerations.
   * Prioritize components and tasks according to business and regulatory requirements.
3. **Data Sources Assessment:**
   * Analyze existing data sources used by the Regulatory Capital Components, considering formats, structures, and dependencies.
   * Identify potential data migration challenges and plan for necessary transformations.
   * Collaborate with data engineering teams to ensure compatibility with Santander AWS data storage solutions.
4. **TO BE Solution Design:**
   * Design the TO BE Solution architecture for Regulatory Capital Components in the Santander AWS environment.
   * Define the AWS services and configurations required for optimal performance, scalability, and security.
   * Collaborate with development and operations teams to ensure alignment with best practices and Santander AWS guidelines.

**Definition of Done:**

* AS IS Analysis is completed, and the current state of Regulatory Capital Components is documented.
* Priority Roadmap is developed and shared with stakeholders for review and approval.
* Data Sources Assessment is conducted, and potential migration challenges are identified.
* TO BE Solution Design is finalized, considering Santander AWS architecture and best practices.
* Stakeholders are briefed on the analysis and design outcomes, and feedback is incorporated.

This user story outlines the crucial analysis and design steps needed for a well-informed and structured migration process to Santander AWS. Adjust the details based on your specific project requirements and Santander AWS guidelines.