**1. Disaster Recovery (DR) Project**

**User Story: Robust Disaster Recovery Infrastructure on Azure**

**As an** Automation Engineer assigned to the DR project  
**I need to** design, deploy, and optimize a disaster recovery (DR) infrastructure on Azure using Terraform  
**So that** critical systems and data can be protected and recovered swiftly in case of a disaster, with ongoing improvements based on user feedback.

**Acceptance Criteria:**

1. **Resource Management:**
   * Implement resource groups via Terraform scripts for organized resource management.
   * Continuously refine the resource organization based on feedback for optimal performance and cost-efficiency.
2. **Network Infrastructure:**
   * Establish VNets and Subnets to ensure secure and isolated network environments.
   * Configure NSGs to enforce stringent security policies.
   * Enable VNet peering for seamless inter-network communication.
   * Incorporate feedback to enhance network security and connectivity.
3. **Compute and Access Management:**
   * Deploy scalable and secure Linux and Windows VMs.
   * Implement a Bastion Host for secure, controlled access to VMs.
   * Optimize VM configurations and access controls in response to user feedback.
4. **Traffic Management and Security:**
   * Deploy internal and external Azure Load Balancers to manage traffic efficiently.
   * Configure Application Gateways with Web Application Firewall (WAF) to protect against threats.
   * Adjust configurations based on feedback to improve traffic management and security.
5. **Data Management and Security:**
   * Set up SQL Managed Instances for robust data management.
   * Implement FortiGate Firewalls for comprehensive security.
   * Apply feedback to enhance data security measures and firewall policies.
6. **DNS and Automation Enhancements:**
   * Automate the creation and management of DNS Records.
   * Continuously improve automation scripts based on feedback for efficiency and reliability.
7. **Disaster Recovery Optimization:**
   * Implement Azure Site Recovery to ensure rapid recovery of services.
   * Regularly update DR strategies and configurations based on feedback and evolving best practices.

**2. Network Automation Project**

**User Story: Streamlined Network Backup and Maintenance Automation**

**As an** Automation Engineer assigned to the Network Automation project  
**I need to** automate the backup and maintenance processes for network devices using Ansible  
**So that** network configurations are securely backed up and maintained with minimal manual intervention, incorporating improvements from feedback.

**Acceptance Criteria:**

1. **Ansible Automation and Bug Fixes:**
   * Resolve existing bugs in Ansible scripts for firewall backups.
   * Implement enhancements based on user feedback to improve reliability and efficiency.
2. **Comprehensive Backup Solutions:**
   * Develop a robust monthly backup script for network configurations.
   * Implement a retention policy script for automatic deletion of backups older than 35 days.
   * Integrate feedback to optimize backup schedules and data retention policies.

**3. PIC Automation Project**

**User Story: Efficient Firewall Policy Automation and Reporting**

**As an** Automation Engineer assigned to the PIC Automation project  
**I need to** automate the extraction and reporting of firewall policies  
**So that** security policies are transparently monitored and reported to stakeholders, with continuous enhancements based on feedback.

**Acceptance Criteria:**

1. **Policy Extraction and Automation:**
   * Develop a comprehensive script to extract detailed policy data from each firewall.
   * Regularly update the script based on feedback to improve data accuracy and extraction speed.
2. **Comprehensive Reporting:**
   * Generate detailed, easy-to-understand reports from the extracted policy data.
   * Automatically distribute reports to relevant stakeholders.
   * Incorporate feedback to enhance report content, format, and delivery mechanisms.

**4. CI/CD Project**

**User Story: Scalable and Efficient CI/CD Pipeline Implementation**

**As an** Automation Engineer assigned to the CI/CD project  
**I need to** design and implement scalable CI/CD pipelines  
**So that** infrastructure and application deployments are automated, consistent, and reliable, with continuous improvement driven by feedback.

**Acceptance Criteria:**

1. **Pipeline Design and Development:**
   * Create comprehensive CI/CD pipelines for deploying and managing both infrastructure and applications.
   * Integrate feedback to refine pipeline processes, ensuring efficiency and reliability.
2. **Tool Integration and Workflow Optimization:**
   * Ensure seamless integration with version control systems, testing frameworks, and other essential tools.
   * Continuously improve integration points based on user feedback to streamline workflows.
3. **Automation, Testing, and Monitoring:**
   * Automate testing, deployment, and monitoring processes to ensure rapid and reliable releases.
   * Regularly update automation strategies based on feedback to enhance effectiveness and reduce manual effort.