**Epic: New Staging Rack Setup**

**Description:**  
The goal of this epic is to set up a new staging rack with proper planning, implementation, and testing. This includes designing the rack layout, upgrading switches, configuring devices, and ensuring readiness for handover.

**Due:** 12-Feb  
**Owner:** Project Team  
**Status:** In Progress

**Acceptance Criteria:**

-> Rack layout must be finalized and approved.  
-> All network devices must be installed and configured.  
-> Device power-on and network configuration must be completed.  
-> The setup must pass functional testing before handover.

**User Story 1: Planning and Implementation**

**Description:**  
This user story covers the design, installation, and configuration of network and compute components within the staging rack.

**Due:** 10-Feb  
**Owner:** Infrastructure & Network Engineering Team  
**Status:** In Progress

**Acceptance Criteria:**

-> High-level design must be completed and approved.  
-> Rack layout (space, power, cabling) must be designed and reviewed.  
-> All hardware must be mounted and connected.  
-> Network and compute devices must be powered on and verified.  
-> Initial configurations must be applied to devices.

**Sprint 1 - Tasks for User Story 1**

**Task 1: High-Level Design**

**Description:** Create a high-level design for the staging rack, including space, power, and network topology.  
**Due:** 30-Sep  
**Owner:** Abdul Hamed  
**Status:** Completed

**Acceptance Criteria:**

-> Design document must be reviewed and approved.  
-> The design must align with the organization's standards.

**Task 2: New TOR Network Switch Upgrade**

**Description:** Upgrade the Top-of-Rack (TOR) network switches to the latest firmware and ensure compatibility with the infrastructure.  
**Due:** 15-Jan  
**Owner:** NetEng  
**Status:** Completed

**Acceptance Criteria:**

-> Switches must be upgraded to the latest stable firmware.  
-> Basic connectivity must be validated post-upgrade.  
-> No service disruption should occur during the upgrade.

**Task 3: Rack Layout – Space/Power Design**

**Description:** Design the physical rack layout, considering space, power distribution, and airflow.  
**Due:** 29-Jan  
**Owner:** Mike Besko/John  
**Status:** Completed

**Acceptance Criteria:**

-> Rack layout must be documented with diagrams.  
-> Power calculations must be completed and approved.  
-> The layout must meet environmental and cooling requirements.

**Task 4: Rack Layout – Device/Port/Cable Design**

**Description:** Define the port assignments, cabling plan, and device placement within the rack.  
**Due:** 30-Jan  
**Owner:** Mike Besko/John  
**Status:** In Progress

**Acceptance Criteria:**

-> All devices must have pre-defined port assignments.  
-> Cable labeling and color coding must be specified.  
-> Plan must be reviewed and approved before implementation.

**Task 5: Rack Layout – Final Review**

**Description:** Conduct a final review of the rack layout before proceeding with installation.  
**Due:** 31-Jan  
**Owner:** Mike Besko/John  
**Status:** Planned

**Acceptance Criteria:**

-> All design elements must be validated.  
-> Stakeholders must approve the final layout.

**Task 6: UCS Compute & Unity Storage Mounting**

**Description:** Install and mount UCS Compute nodes and Unity Storage devices.  
**Due:** 04-Feb  
**Owner:** Mike Besko/John/BMT  
**Status:** Planned

**Acceptance Criteria:**

-> All compute and storage devices must be physically installed.  
-> Hardware must pass power-on self-tests.

**Task 7: New SAN Switch Upgrade & Mounting**

**Description:** Install new SAN switches and upgrade firmware.  
**Due:** 05-Feb  
**Owner:** Engineering/Mike Besko/John  
**Status:** Planned

**Acceptance Criteria:**

-> SAN switches must be installed and connected.  
-> Firmware must be updated to the latest stable release.  
-> Redundancy and failover must be tested.

**Task 8: New TOR Network Switch Mounting & Cabling**

**Description:** Install and cable new TOR network switches as per the design.  
**Due:** 06-Feb  
**Owner:** Mike Besko/John  
**Status:** Planned

**Acceptance Criteria:**

-> TOR switches must be securely mounted.  
-> Cabling must follow the predefined port mapping.  
-> Basic connectivity tests must be completed.

**Task 9: Devices - Power On**

**Description:** Power on all installed devices and verify their status.  
**Due:** 07-Feb  
**Owner:** Mike Besko/John  
**Status:** Planned

**Acceptance Criteria:**

-> All devices must successfully power on.  
-> No errors or hardware failures should be reported.

**Task 10: Device Configuration - Part 1 (Compute, Storage, Switch)**

**Description:** Apply initial configuration to compute, storage, and switches.  
**Due:** 08-Feb  
**Owner:** SysEng  
**Status:** Planned

**Acceptance Criteria:**

-> Initial configurations must be applied successfully.  
-> Devices must communicate within the staging environment.

**Task 11: Device Configuration - Part 2 (Compute, Storage, Switch)**

**Description:** Apply additional configuration and validation checks.  
**Due:** 09-Feb  
**Owner:** SysEng  
**Status:** Planned

**Acceptance Criteria:**

-> Advanced settings and security configurations must be applied.  
-> System logs should show no critical errors.

**Task 12: Network Configuration**

**Description:** Configure the network settings, VLANs, and routing.  
**Due:** 10-Feb  
**Owner:** NetEng  
**Status:** Planned

**Acceptance Criteria:**

-> VLANs and routing must be set up according to design.  
-> All devices must be reachable via network.

**User Story 2: Testing and Handover**

**Description:** Perform final testing and hand over the new staging rack for use.

**Due:** 12-Feb  
**Owner:** Engineering Team  
**Status:** Planned

**Acceptance Criteria:**

-> All devices must pass functional and connectivity tests.  
-> The rack must be documented for operational handover.  
-> Final approval must be obtained before use.

**Sprint 1 - Tasks for User Story 2**

**Task 1: Testing**

**Description:** Conduct a full system test to validate all configurations.  
**Due:** 11-Feb  
**Owner:** Engineering  
**Status:** Planned

**Acceptance Criteria:**

-> Network connectivity tests must be completed.  
-> Compute and storage must be verified.  
-> No critical issues should be found.

**Task 2: Handover to Use**

**Description:** Transfer ownership of the new staging rack to the operations team.  
**Due:** 12-Feb  
**Owner:** Engineering  
**Status:** Planned

**Acceptance Criteria:**

-> Handover documentation must be completed.  
-> The operations team must acknowledge receipt and readiness.