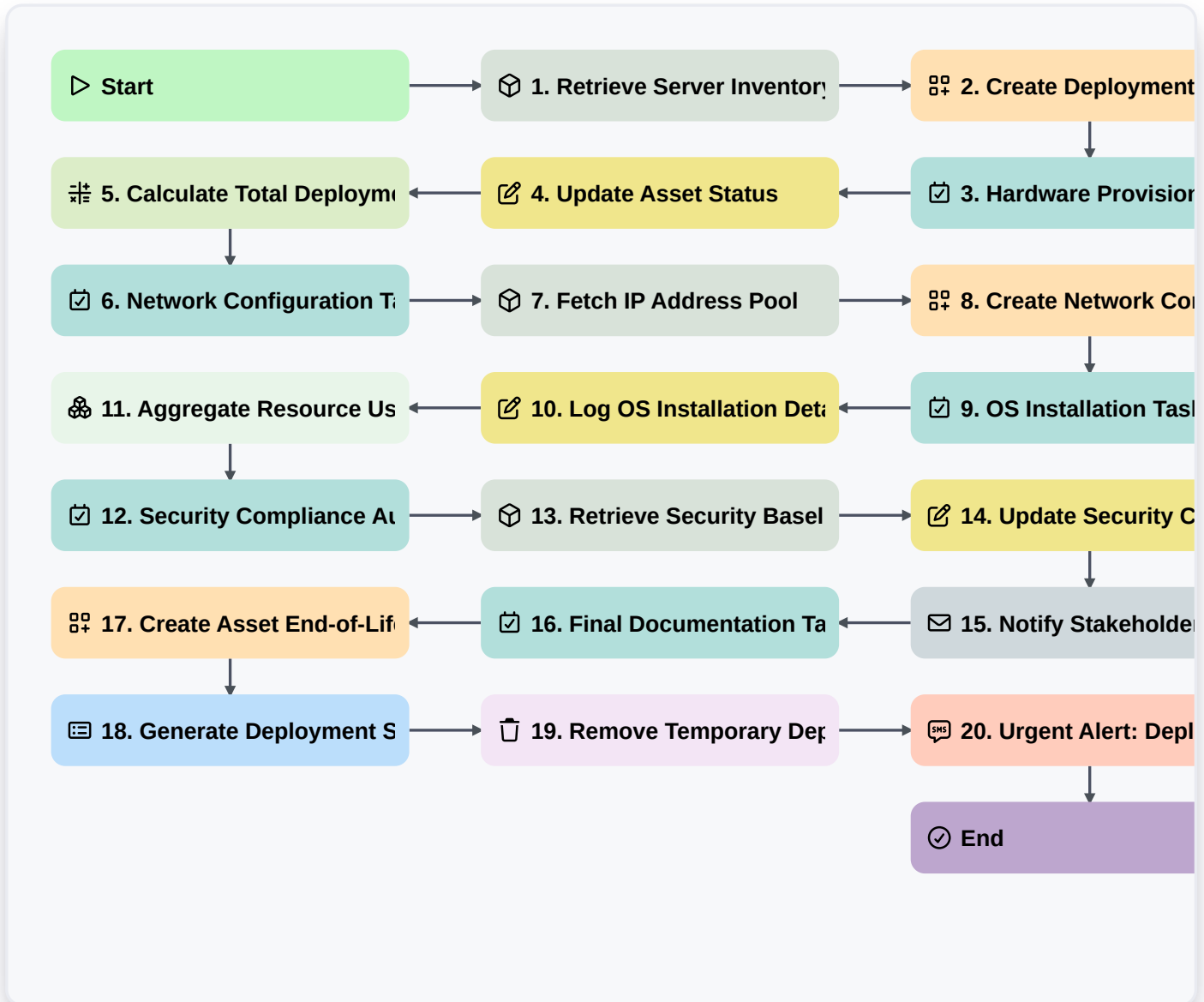


IT Infrastructure Deployment Process



Start

Start of the Workflow/Process.

1. Retrieve Server Inventory

Fetch existing server and hardware records from the Asset Data Model to check availability.

2. Create Deployment Request

Initialize a new deployment record in the Infrastructure Request Data Model.

3. Hardware Provisioning Task

Assign a task to the Hardware Team to prepare physical servers and networking gear.

4. Update Asset Status

Change the status of selected assets from 'In Stock' to 'In Deployment'.

5. Calculate Total Deployment Cost

Sum the cost of hardware, software licenses, and labor hours for the deployment budget.

6. Network Configuration Task

Assign a task to Network Engineers to configure VLANs, IP ranges, and firewall rules.



7. Fetch IP Address Pool

Retrieve available IP addresses from the Network Configuration Data Model.

8. Create Network Configuration Entry

Create a new record detailing the specific IP and VLAN assignments for the new infrastructure.

9. OS Installation Task

Assign a task to System Administrators to install and patch the Operating Systems.

10. Log OS Installation Details

Update the deployment record with OS version, build number, and installation timestamp.

11. Aggregate Resource Usage

Calculate the total CPU and RAM consumption of the newly deployed nodes.

12. Security Compliance Audit

Assign a task to the Security Team to run vulnerability scans on the new infrastructure.

13. Retrieve Security Baseline

Fetch the standard security configuration requirements from the Compliance Data Model.

14. Update Security Compliance Status

Mark the infrastructure as 'Compliant' or 'Non-Compliant' based on audit results.

15. Notify Stakeholders

Send an email to Project Managers and Department Heads announcing the deployment completion.

16. Final Documentation Task

Assign a task to the Documentation Specialist to update the Network Topology Diagrams.

17. Create Asset End-of-Life Record

Create an entry in the Lifecycle Data Model to track the decommission date for the hardware.

18. Generate Deployment Summary Report

Generate a final report containing the deployment timeline, costs, and hardware specifications.

19. Remove Temporary Deployment Logs

Delete temporary staging logs and installation scratchpad entries from the system.

20. Urgent Alert: Deployment Failure

Send an SMS to the On-Call Engineer if any critical step in the deployment fails.

End

End of the Workflow/Process.