

# Upgrades & Maintenance

The CMS is delivered as containerized services. Maintenance focuses on applying updates, securing the environment, and ensuring continuous availability.

## Upgrades

- **Container Images:** Pull updated images from the registry.
- **Rolling Updates:** Apply updates one container at a time to avoid downtime.
- **Schema Migrations:** Apply database migrations as part of the upgrade process.

## Maintenance Tasks

- **Database Maintenance:** Regularly optimize and purge old usage records as per retention policy.
- **Certificate Renewal:** Update TLS certificates before expiry.
- **License Management:** Validate CMS license validity and renew as required.

## Recommendations

- Maintain separate test/staging environments for validating upgrades.
- Schedule maintenance windows for major version changes.
- Monitor system health post-upgrade to confirm normal operations.

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