

Gantt Chart Description – Capacity Planning

1. Discovery Phase (May 2024)

The Discovery Phase spanned May and focused on deeply understanding the existing on-premise solution.

Current Solution Analysis:

Design review of the on-premise Capacity Planning feature, identifying key components, responsibilities of code sections, and analysing UI/UX for potential improvements.

Cloud Readiness Assessment:

Cloud environment evaluation to identify access rights and permissions required for implementation. This included reviewing the existing cloud infrastructure and libraries to determine which could be reused and assessing how to improve the performance and computation of reports in the cloud.

Architecture Design:

Design and revise a proposed cloud architecture solution utilizing the most suitable technologies. Ensuring the solution is scalable, flexible, and efficient.

Data Source Review:

Identify the current data sources in the on-premise solution and determine if this data was already being ingested into the cloud.

UI Design and Mock-ups:

Mock-ups review of the new cloud-based UI, evaluate their usability, and align them with the requirements for cloud-based interactions.

2. Pilot Phase (June – August 2024)

The Pilot Phase ran from early June until the end of August and focused on laying the groundwork for the cloud implementation.

Services Initialization:

The start of solution development, creation of new services, integration with dependent services, and creation of the initial user interface.

Logic Development:

Creation of the foundational components to compute the essential data required for Capacity Planning reports, ensuring the system performs basic functionality.

Usability Testing:

Provision of a working UI version to stakeholders for gathering early feedback on usability and performance.

Local Development Support:

Tools and processes establishment for easy local development and testing, ensuring the team could quickly iterate on features and fixes.

3. MVP Phase (October 8, 2024)

The MVP Deployment Phase focused on delivering a minimal viable product (MVP) version of the Capacity Planning feature in the cloud.

Functional UI:

A fully functional user interface that allows users to select essential attributes via a wizard to create Capacity Planning reports.

Core Backend Functionality:

The backend system was required to compute a comprehensive overview of the customer's virtual environment and provide resource utilization forecasts.

Testing and Documentation:

The MVP had to be thoroughly tested, covered by test suites, and documented for maintainability and future scaling.

Scalability and Monitoring:

The solution needed to be scalable, with monitoring and alert systems to detect service failures or performance issues, ensuring reliable operation in production environments.

Feature Flags:

Feature flags implementation for controlled feature rollouts.

User Tracking:

Initial user behaviour tracking to monitor customer interactions with the feature.

Role-based Permissions:

Setting up permissions to differentiate user roles, ensuring security and appropriate access to data for different users.

4. Additional Steps Phase (November 26, 2024)

The Additional Steps Phase involved refining the MVP by adding additional functionality and addressing issues identified during initial production use.

Advanced Report Computation:

Implementation of more advanced options in the wizard for finetuning how reports should be generated.

Results Comparison:

Comparison of the cloud-based results with the on-premise solution to analyse differences in performance and accuracy.

Infrastructure Improvements:

Collaboration with infrastructure teams to enhance the libraries and services supporting the Capacity Planning feature and its needs.

Customer Feedback:

Tracking customer usage and gathering feedback to identify further usability improvements and potential new features.

5. Final Implementation Phase (December 2024 – January 2025)

The Final Implementation Phase completed all remaining functionality and polished the feature for full customer deployment.

Simulation of Depletion:

Allow customers to simulate potential resource depletion scenarios.

Improved Error Handling:

Enhance error reporting so users can understand why a computation failed.

Complete UI:

Gathering feedback from stakeholders and delivering the final, fully functional UI.

Bug Fixes:

Addressing any remaining bugs and ensuring optimal performance.

6. Post-Implementation Phase (January 2025 Onwards)

This phase focused on post-launch activities to ensure the solution performed as expected and supported future improvements.

Performance Monitoring:

Continuous tracking of the solution's performance profile, ensuring it scaled effectively as customer demands increased.

Customer Support:

Providing ongoing customer support to troubleshoot issues and ensure a smooth user experience.

Cross-team Collaboration:

Assisting other teams in onboarding into the cloud by sharing insights and best practices learned from the Capacity Planning migration.

Continuous Improvement:

Identifying potential areas for further optimization and enhancements based on customer feedback and performance data.