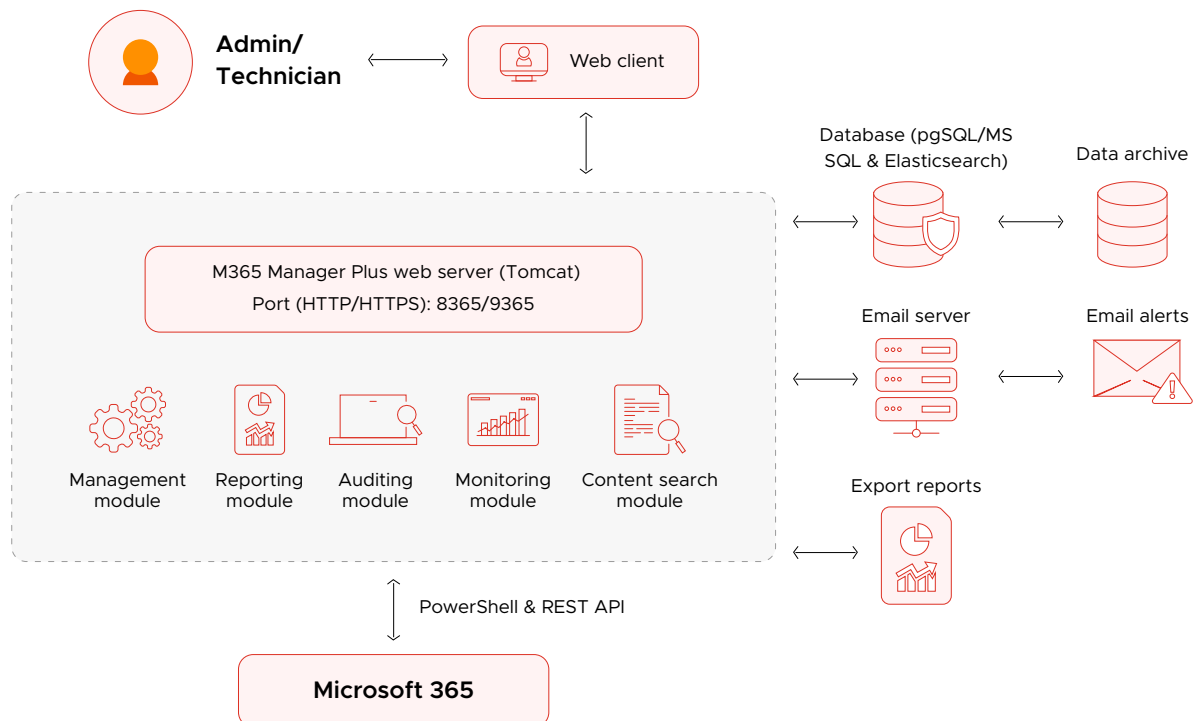


Architecture overview

M365 Manager Plus is a holistic Microsoft 365 administrative solution that helps manage, get reports on, audit, monitor, delegate, automate, and perform content search. This document explains its architecture, the purpose of each of its modules, and how these modules communicate with each other.

Overall architecture



- ✔ M365 Manager Plus uses PowerShell and REST API to collect information from the Microsoft 365 tenant and the required perform management operations.
- ✔ The information collected is then stored in the database configured in the product, for further processing and analysis. This information can be retrieved in the form of reports, anytime.
- ✔ All management operations carried out in M365 Manager Plus will directly result in appropriate changes in the Microsoft 365 tenant.

M365 Manager Plus modules

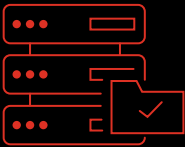
Web client



M365 Manager Plus's client is browser-based, and you can access the server by entering the IP address or host name and port number of the M365 Manager Plus server as the URL. The web client can be accessed from any machine that is on the same network as the M365 Manager Plus server

E.g.: `http://testserver:8365` (or) `http://192.45.89.71:8365`.

Server



The M365 Manager Plus Server contains a Tomcat web server and other modules as illustrated in the [architecture diagram](#). This server can be accessed from the M365 Manager Plus web client, and it can be used to: Configure Microsoft 365 tenants, and product-related settings.

- ✔ Collect data from the configured Microsoft 365 tenants, based on the settings enabled by the admin, and store it in the database,
- ✔ Generate reports, audit, monitor, and perform content search with the collected data, and view it using the web client.
- ✔ Perform management operations which will directly reflect in your Microsoft 365 tenant.

We recommend keeping the M365 Manager Plus Server running at all times so that data is collected continuously and every important activity can be tracked.

Database



M365 Manager Plus comes built-in with a PostgreSQL database. You can also configure an external MS SQL or PostgreSQL database as the product database. In addition to the database, M365 Manager Plus also leverages Elasticsearch for faster performance. The database stores all the product configuration details such as audit profiles, monitoring profiles, report profiles, technician details, and more. Further, all actions performed using M365 Manager Plus are recorded as audit reports, and are stored in the product's database. To ensure security, the database is password protected and sensitive information of the users, such as the default admin account password, is encrypted using the bcrypt algorithm.

Communication between the client, server, and database

- ✔ To access the web client, users need to be successfully authenticated. M365 Manager Plus supports three forms of authentication: M365 Manager Plus authentication for the default technicians in the product, Microsoft 365 authentication for Microsoft 365 users, and Active Directory (AD) authentication AD users. In all these cases, users need to enter their respective username and password to log in to the web client.
- ✔ Whenever a user executes an action, such as generating a report, the client sends the request to the M365 Manager Plus server. The communication between the client and the server can be secured by enabling HTTPS after applying an SSL certificate.
- ✔ Based on the need, a user can execute any operation from the management, reporting, auditing, monitoring and content search features in the client, and the corresponding module in the server will swing into action and fetch the data from the product database, and then send it back to the client.
- ✔ All the actions carried out by users in M365 Manager Plus are recorded in an audit report and stored in the product database.

Ports used by M365 Manager Plus

Source	Port Type	Port Number
Web client	Default	8365
Database	Default	33365
Elasticsearch	Dynamic	9275
Exchange Online	Static	443

Related documents

The table below lists some resources related to M365 Manager Plus that you may find useful.

Resource	What's it about?
Admin guide	This is an all-inclusive guide that covers all aspects of the product and provides step-by-step instructions on how to configure Microsoft 365 tenant in the product.
SSL configuration guide	This guide provides step-by-step instructions on how to apply an SSL certificate in the product, and enable a secure connection (HTTPS) between the browser and M365 Manager Plus server.
Database migration guide	This guide will help you migrate product data from the built-in PostgreSQL to an MS SQL database.
Guide to set up M365 Manager Plus in Azure	This guide will walk you through the steps involved in deploying M365 Manager Plus in Azure.
M365 Manager Plus datasheet	The datasheet provides a bird's eye view of the solution and its features.

M365 Manager Plus is an extensive Microsoft 365 tool used for reporting, managing, monitoring, auditing, and creating alerts for critical incidents. With its user-friendly interface, you can easily manage Exchange Online, Azure Active Directory, Skype for Business, OneDrive for Business, Microsoft Teams, and other Microsoft 365 services from a single console.