

Introducing MachPanel v.8

MACHPANEL®



MachPanel Provisioning System

- Datasheet - MachPanel v8.0
- MachSol Inc.

Revision: 1.0

www.MachSol.com

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1. About This Document

This document focuses on most of the aspects of newly released MachPanel v.7. First fundamental concepts are covered then the document highlights the MachPanel Provisioning System and explains how it employs Traditional and Enterprise hosting. MachPanel Automation product concepts along with key terminologies like MachPanel Control Server, MachPanel Remote Server and Services are covered later on. Finally, the document concludes allowing the reader to decide MachPanel Supremacy over other products.

2. Key Concepts

Before proceeding further, let's start with the fundamental concepts which will help you better understand the solution according to your need. Fundamental concepts include:

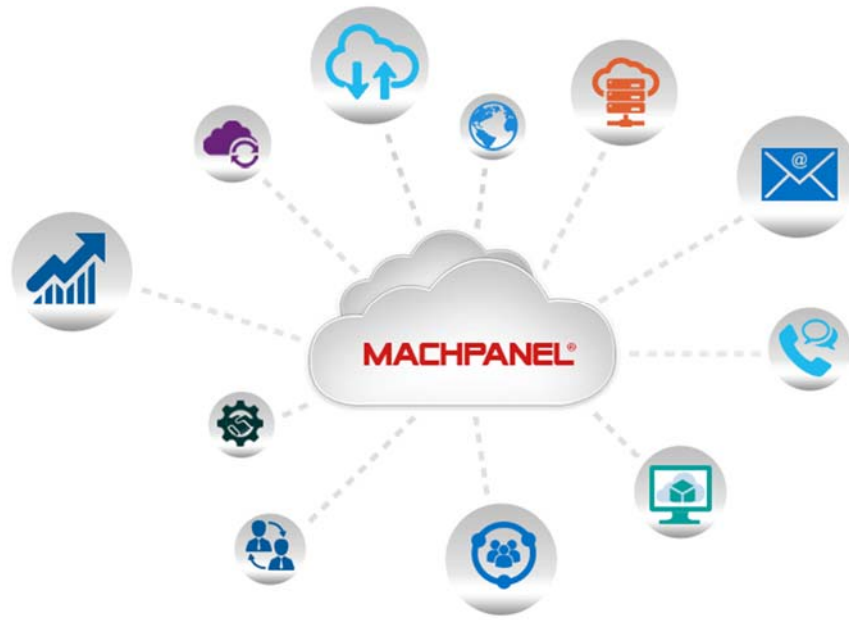
- MachPanel Provisioning System
- MachPanel Shared/Traditional Hosting (Web Hosting)
- MachPanel Cloud Hosting (Enterprise Extensions)

2.1 MachPanel Provisioning System

MachPanel Provisioning System is an **ALL-in-ONE** complete business automation solution for Windows. It includes everything a web hosting company needs to run its day-to-day business operations. It helps to run a profitable, extensible, and successful web hosting business using latest tools and cutting edge technology.

It caters the need of **Traditional** as well as **Enterprise hosting** supporting wide range of features including **Billing, Management, Help Desk** automations and **Network Monitoring**. In addition to automation, it provides plenty of 3rd party integrations with popular platforms.

Over the years, there have been a gradual paradigm shift from Shared web hosting to Cloud hosting. MachPanel caters both.



MachPanel Provisioning System is NOT a traditional web hosting Control Panel. It deals with broad range of Cloud services along with Traditional Hosting services

2.2 Traditional Hosting through MachPanel

MachPanel allows Traditional hosting through its **MachPanel Automation Module for Web Hosting**. Web Hosting lets you start with minimal number of servers and expand as you grow without extra cost or investment on the control panel system.

- Web Hosting is a powerful MachPanel product.
- Extends its functionality to support web & data hosting.
- Provisioning on large server farms in a load-balanced manner.

Pictorial illustration of MachPanel Automation Module for Web Hosting for Traditional Hosting.



2.3 Cloud Hosting through MachPanel

In addition to Traditional Hosting, Cloud hosting is a vital and powerful feature that MachPanel possesses. It allows various Enterprise solutions for broad Cloud Hosting Services that include:

- a. MachPanel Automation Module for Microsoft Exchange
- b. MachPanel Automation Module for Microsoft Skype for Business
- c. MachPanel Automation Module for Microsoft SharePoint
- d. MachPanel Automation Module for Microsoft CRM
- e. MachPanel Automation Module for Microsoft Hyper-V
- f. MachPanel Automation Module for Microsoft CSP
- g. MachPanel Automation Module for Windows Work Folders
- h. MachPanel Automation Module for Microsoft RDS

It is very important to decide for the right selection of Control Panel that best suits your needs.

Now MachPanel Provisioning System ALSO support Exchange 2019, SharePoint 2019 & Skype for Business 2019 for Windows Server 2019 along with Billing, HelpDesk and Network services Management.

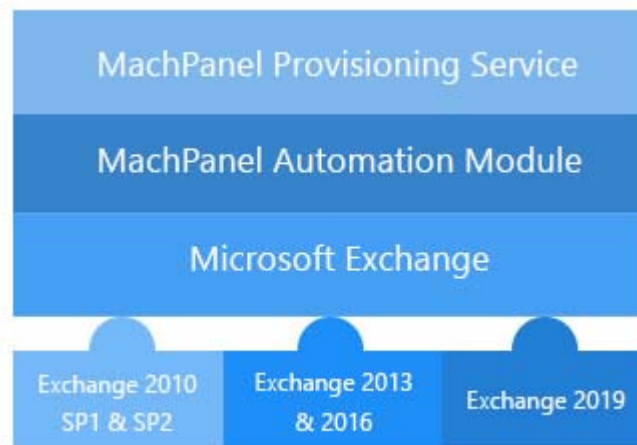


2.4 MachPanel Automation Module for Microsoft Exchange Service Architecture

MachPanel Automation Module for Microsoft Exchange support both flavors of Exchange 2010. Now also supports Microsoft Exchange 2019 along with legacy versions.

1. Microsoft Exchange 2007
2. Microsoft Exchange 2010 (SP1 & SP2)
3. Microsoft Exchange 2013
4. Microsoft Exchange 2016
5. Microsoft Exchange 2019

Note the pay as you grow approach here. You have immense scalability options available by starting small and increasing your business later on.

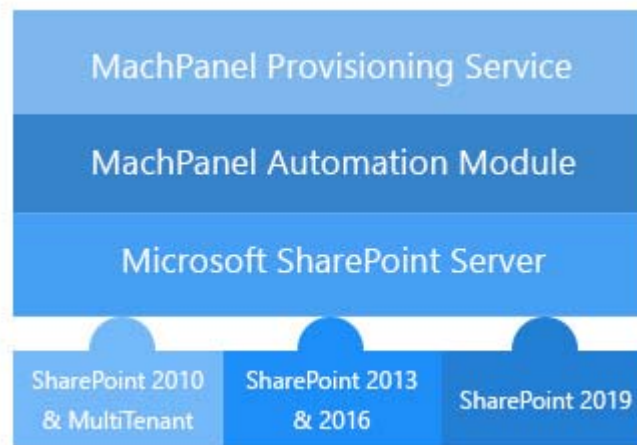


2.5 MachPanel Automation Module for Microsoft SharePoint Service Architecture

MachPanel support following versions of Microsoft SharePoint:

1. Windows SharePoint Services 3.0 (free license)
2. Microsoft Office SharePoint Server 2007 (commercial extension)
3. Microsoft SharePoint Foundation 2010 (free)
4. Microsoft SharePoint Server 2010 (commercial extension for Foundation)
5. Microsoft SharePoint Enterprise 2010 (commercial extension for Server)
6. Microsoft SharePoint 2010 (Multi-Tenant)
7. Microsoft SharePoint Foundation 2013
8. Microsoft SharePoint Server 2013 (extension on top of Foundation)
9. Microsoft SharePoint 2016
10. Microsoft SharePoint 2019
11. SharePoint Server Subscription Edition **New!**

You can clearly see that initially you can start with small setup using MachPanel Automation Module for Microsoft SharePoint for WSS 3.0 and then expand to a large one, shifting to SharePoint 2010, SharPoint 2013 SharePoint 2016 & SharePoint 2019 that is ALSO supported.



2.7 MachPanel Automation Module for Microsoft CRM Service Architecture

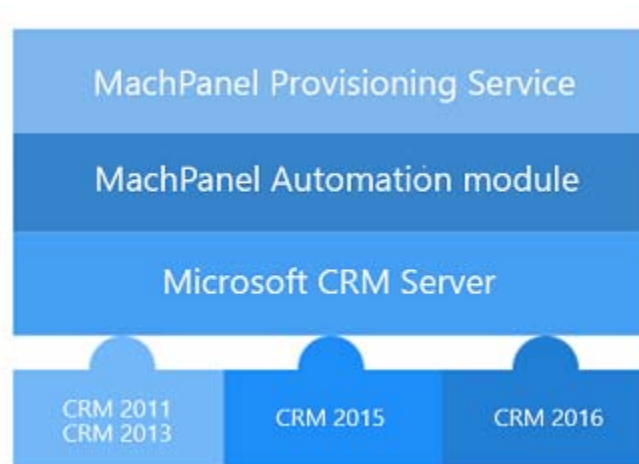
MachPanel support the following versions of Microsoft CRM.

1. Microsoft Dynamics CRM 4.0
2. Microsoft Dynamics CRM 2011
3. Microsoft Dynamics CRM 2013
4. Microsoft Dynamics CRM 2015
5. Microsoft Dynamics CRM 2016
6. Microsoft Dynamics 365

Note the pay as you grow approach here. You have immense scalability options available by starting small and increasing your business later on.

MachPanel Automation Module for Microsoft CRM implements all operations Microsoft Dynamics CRM 4.0/2011/2013/2015/2016 and Dynamics 365 together with support for multitenancy, enabling your enterprise to improve productivity and work smarter.

MachPanel Automation Module for Microsoft CRM provides diverse functionality that your enterprise needs, to offer CRM services. It handles the CRM site creation, deletion, CRM Organizations/Users/Domains and roles management and offers support for multi-tenancy allowing multiple organizations at single server.



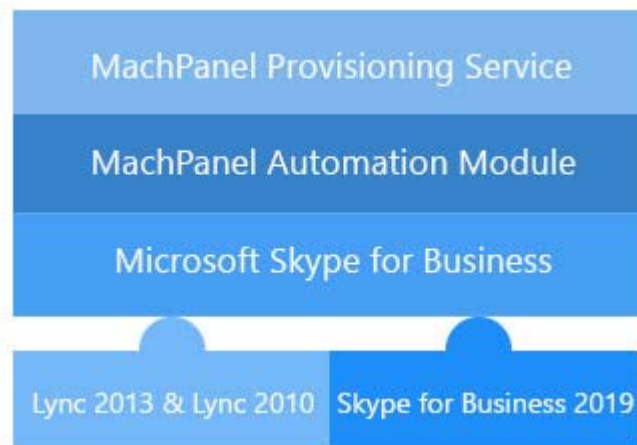
2.8 MachPanel Automation Module for Microsoft Skype for Business Service Architecture

MachPanel support Microsoft Skype for Business server and the Legacy Versions.

1. Microsoft Skype for Business 2019
2. Microsoft Skype for Business 2015
3. Microsoft Lync Server 2013 / Multitenant
4. Microsoft Lync Server 2010 / Multitenant

MachPanel Automation Module for Microsoft Skype for Business unifies communications bearing IM connectivity, conferencing, telephony, file transfer alongside many other features.

MachPanel Automation Module for Microsoft Skype for Business empowers your enterprise to simplify communications via messaging, text, voice and video at enterprise level and person to person. Having MachPanel Automation Module for Microsoft Skype for Business, you can not only perform much better but you can also have the flexibility and freedom of communications infrastructure being unified.

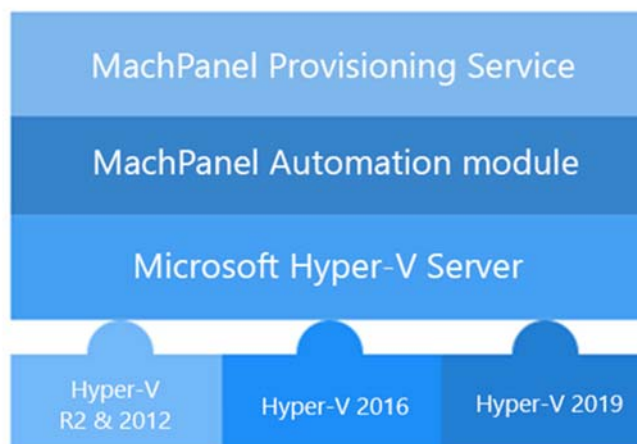


2.9 MachPanel Automation Module for Microsoft Hyper-V Service

Architecture

MachPanel Automation Module for Microsoft Hyper-V supports **Hyper-V Server 2008 & R2, Hyper-V Server 2012 & R2, Hyper-V Server 2016, Hyper-V Server 2019, Hyper-V Server 2022, Hyper-V Server 2025**. MachPanel Automation Module for Microsoft Hyper-V allows services providers to experience virtualization arena. Now you can offer your clients VPS Hosting with tremendous benefits and robust management controls that maximize your revenue.

Hyper-V Server provides a simplified, reliable, and optimized virtualization solution, which enables improved server utilization and reduced costs. It can easily fit into customer's existing IT environments, leveraging their existing provisioning, management, support tools, processes, and skills.



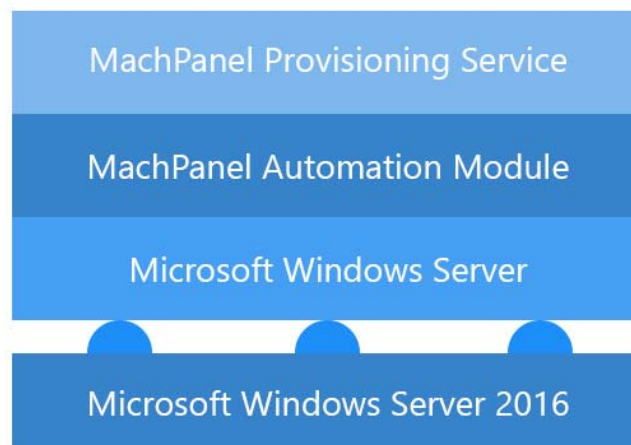
2.10 MachPanel Automation Module for Microsoft CSP Service

MachPanel Automation Module for Microsoft CSP offers a wide range of functionality. MachPanel Automation Module for Microsoft CSP implements all operation of Microsoft CSP together with support for multitenancy, enabling your enterprise to improve productivity and work smarter. MachPanel Automation Module for Microsoft CSP adds billing, provisioning and management of Microsoft CSP Services to your hosted services. It allows your enterprise to perform better and in entirety, by covering every functional capability (e.g. CSP Profile creation/deletion, CSP Users/Mailboxes/Contacts/Distribution Groups, Account SKU configuration & Reporting etc.) . You can also add Indirect Partner Profile (TechData distributor).

2.11 MachPanel Automation Module for Windows Work Folders

MachPanel Automation Module for Work Folders Hosting is the solution to file syncing and collaboration problems. It secure all user's data on file servers synced on all devices, stored on-premise at your own file infrastructure of the organization. The files are accessed based on user's roles. This adds for security and also Integrity of files data stored on the server.

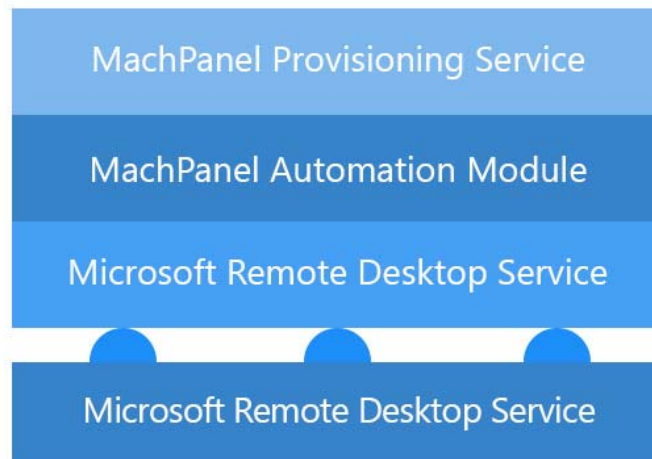
Through MachPanel Interface you can easily manage Work Folders Organization /AD Users/Security Groups & Work Folders.



2.12 MachPanel Automation Module for Microsoft RDS

MachPanel Automation Module for RDS offers latest Microsoft Remote Desktop Service. MachPanel Automation Module for RDS provides provisioning, management of Microsoft Remote Desktop Service along with billing & helpdesk. It handles the RDS Organization management /AD Users management/Security Groups management.

Depending on your environment and preferences, you can set up the RDS solution for session.



3. Key Terminologies

Now that you are familiar with the basic concepts let's start with the key terminologies which are significant so that you don't feel yourself an alien while reading this document.

- MachPanel Control Server
- MachPanel Remote Server
- MachPanel Services

3.1. MachPanel Control Server

MachPanel Control Server is the central provisioning system that is responsible to integrate, facilitate **ALL** hosting services (Traditional and Enterprise) and offers unified management of the said services.

It communicates with the remote servers to automatically provision the services. MachPanel Control Server is the complete answer for **integrated, efficient and robust unified hosted services management**. It is the Central Server for Control of all hosting services and responsible for communication with Remote Servers.

MachPanel Control Server is the central entity/server for control and communication with Extensions and remote servers.

3.2. MachPanel Remote Server

MachPanel Remote Server consists of MachPanel Provisioning Service which is responsible to actually provision services (Windows SharePoint Services (WSS) 3.0, Exchange Service, BlackBerry etc.).

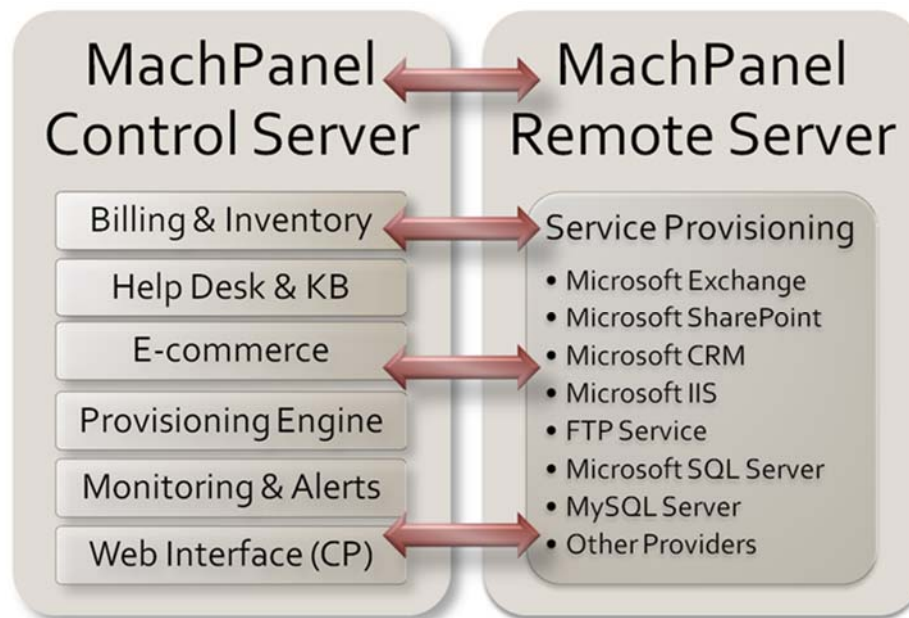
MachPanel extends its functionality through Enterprise products e.g. (MachPanel Automation Module for Microsoft Exchange, MachPanel Automation Module for Microsoft Skype for Business, MachPanel Automation MachSol Inc.

Module for Microsoft SharePoint, MachPanel Automation Module for Microsoft CRM, MachPanel Automation Module for Microsoft Hyper-V, MachPanel Automation Module for Microsoft CSP). Remote servers running Enterprise Software are provisioned using MachPanel Provisioning Service. MachPanel Control Server communicates with Enterprise products through MachPanel Remote Server.

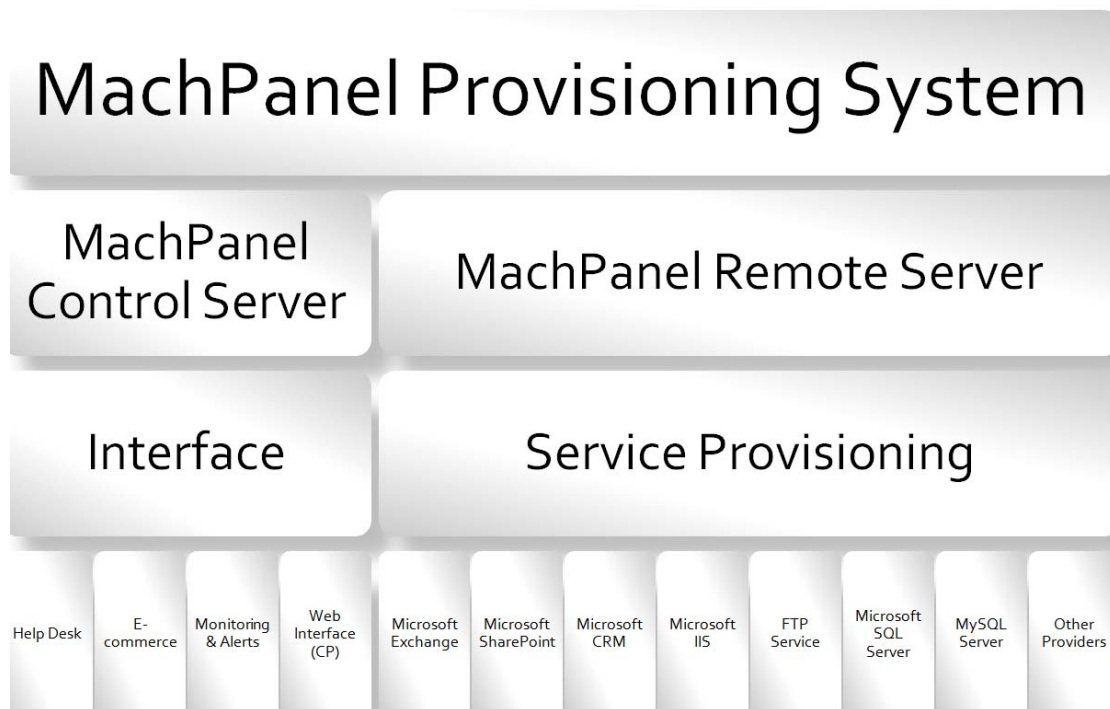
Remote Server is the **essential** part for all the products that MachPanel offer.

MachPanel Control Server and MachPanel Remote Server communication plays vital role for rendering Practical Hosting automation solution.

Successful communication enables the proper provisioning and control.



Following figure will give you a better idea how interfacing and service provisioning is done through MachPanel Control Server and MachPanel Remote Server respectively.



3.3. [Example](#)

Now this is an example scenario that depicts the deployment infrastructure for proper MachPanel set up.

It's pretty obvious, as mentioned earlier that the Control Server is responsible for central command and control of all participating entities/server. MachPanel gives you an integrated Control Panel to manage all the Traditional/Cloud hosting services. This is done using a **Secure Link**.

Depending upon the product you are using (either **Traditional** like MachPanel Automation Module for Web Hosting or **Enterprise/Cloud** like MachPanel Automation Module for Microsoft Exchange, MachPanel Automation Module for Microsoft Skype for Business, MachPanel Automation Module for Microsoft SharePoint, MachPanel Automation Module for Microsoft CRM, MachPanel Automation Module for Microsoft Hyper-V, MachPanel Automation Module for Microsoft CSP). MachPanel Control Server communicates with MachPanel Remote Servers for respective service provisioning.

3.4. [MachPanel Services](#)

These are MachPanel Services that must be enabled for successful functioning:

1. **MachPanel HelpDesk Service:** Manages Ticketing system and exhibit notifications as configured.
2. **MachPanel Provisioning Service:** MachPanel extends its functionality through Enterprise products e.g. (MachPanel Automation Module for Microsoft Exchange, MachPanel Automation Module for Microsoft Skype for Business, MachPanel Automation Module for Microsoft SharePoint, MachPanel Automation Module for Microsoft CRM, MachPanel Automation Module for Microsoft Hyper-V, MachPanel Automation Module for Microsoft CSP.) Remote servers running Enterprise Software are provisioned using this MachPanel Provisioning Service.

3. **MachPanel Network Service:** This is responsible for network monitoring and management.
4. **MachPanel Billing Service:** Payments/Documents/Invoices and notifications/emails are handled through this MachPanel Billing Service.
5. **MachPanel License Service:** It communicates with the Licensing Server to activate/upgrade the license and is used for License management. This service shall be running all the time.
6. **O365 Service:** It activates CSP Module and to communicate with Microsoft Office 365 a windows service is built that operates as a bridge between Control Panel and Microsoft Office 365. To install the service please locate “o365install.bat” file inside “**Control Server Installation directory > Apps > O365**” directory, usually: “C:/Program Files/MachSol/MachPanel Control Server/Apps/O365”.

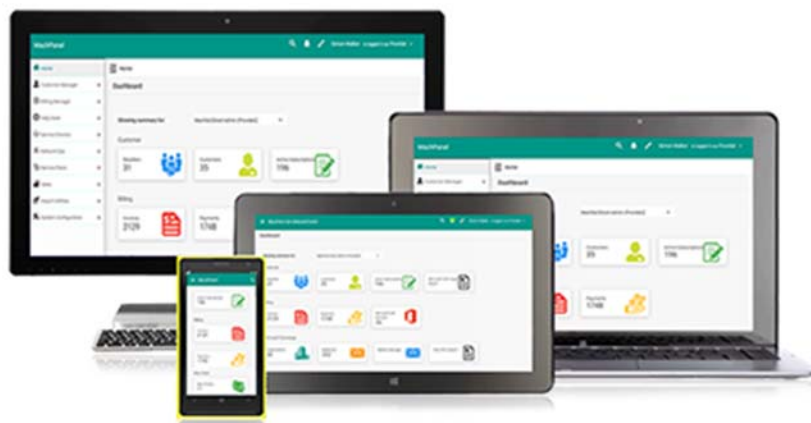
4. Conclusion

In short, MachPanel offers following benefits over other solutions:

- Complete Hosting Operation and Business Support system (**OSS/BSS**)
- State-of-the-art **Centralized** solution
- Integrated and “**ALL-in-ONE**” Control Panel
- Unbeatable price

MachPanel not only provides a complete business automation solution comprising of Traditional and Enterprise hosting. Furthermore, migration toolkits are also available.

The right Control Panel with the requirements that suit your needs serves a web hosting business in an optimized way and MachPanel has got full potential to do so.



5. Useful Resources

We maintain handful of useful resources to allow better support and enhance user experience with our product, making the most of it. You can utilize this supplementary information as per requirement. Just follow the mentioned links for further assistance.

No#	Documents and Guides	Links
1.	Frequently Asked Questions (FAQs):	http://kb.machsol.com/Knowledgebase/2
2.	Knowledge Base (KB):	http://kb.machsol.com/
3.	Blogs:	http://blog.machsol.com

6. Contact Us

MachSol is leader in unified automation software that solves business and operational challenges in delivering scalable hosted software in private cloud, public cloud and hybrid cloud environments.

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