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1. Important Prerequisites

Please follow the steps given below in sequence and execute instructions in the KB articles to complete the update:

1. [Update to Latest MachPanel Control Server](#)
2. [Update to Latest MachPanel Remote Server](#)

Also, there are some SQL commands/scripts used since build 7.2.11 which are supported in SQL 2012 or later. So, it is **required** that you install SQL version 2017 or 2019 using below KB article

- Installation guide for SQL 2017
 - <https://kb.machsol.com/Knowledgebase/53483/Installation-Guide-for-SQL-2017-Express>
- Installation guide for SQL 2019
 - <https://kb.machsol.com/Knowledgebase/55737/Installation-Guide-for-SQL-Server-2019>

Once done, you have to move your MachPanel DB from old SQL instance to the newly installed SQL. For that you can follow below KB article

- [How to Move MachPanel MS SQL Database To Another New MS SQL Server \(machsol.com\)](#)

2. Important Note

If you are using **MachPanel Rest API**, please follow link below to update to latest version of Rest API:

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[Update to Latest MachPanel REST API](#)

3. Improvements/New Features

- **General (MachPanel, AD, ADSync, Billing, REST API):**
 - KeyCloak Login Redirect - In case a different user is logged in to KeyCloak than the one in Panel.
 - Added option to configure exported Excel file extension to use .xls or .xlsx under Company Profile > Personalization.
 - Subscription List (Deleted subscription filters enhanced)
 - License information Report under Schedule Usage Report section
 - Log out the current session as well as all other open sessions for the same customer upon password change.
 - Added Recycle bin and Recovery records management using REST API.
 - Handle Login page broken issue - When Provider/Reseller impersonates as customer/contact and in another window deletes that customer and tries to reload the page.
 - Added mailbox size report under Exchange > Monitoring in customer portal.
 - Added auto deletion of linked AD Staff users which are removed from the Security Group in AD.
 - Export Invoices data using interface and REST API
 - Update Bulk AD Users - Added more columns in CSV file.
 - Added DUO Universal Prompt integration. ([Configuration steps remain same](#))
 - Removed OWA Policy related resources from REST API calls as these are now managed using OWA Mailbox Policies interface.
 - Allow authentication via AD User associated with customer contacts.
 - Added option to Update User CN on UPN change automatically in Active Directory domain Add/Edit interface.
 - Updated DB Backup email handling, email is not sent to anyone if email is not configured.
 - Added handling to avoid Deadlock Victim error.

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- Verify if AD User password setting job sets value as needed, if settings from backend does not match, job fails, and re-try is done.
 - Audit Log listing performance improved by using paging at SQL Server.
 - Handled error in Export to Excel when XLSX format is used, and string field length exceed 255 characters.
 - [Added OAuth for O365 support in HelpDeskParser](#)
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- **Microsoft Exchange:**
 - Allowed to add Email Alias when Alias exists as UPN already.
 - Email Template Improvements
 - Bulk Import case sensitive - save UPN/Email aliases in lowercase when adding bulk users.
 - User Select on exact UPN - UPN should be the user's basic identifier, however that the display name may be repeated with multiple users.
 - Added new Attribute in AD - "Account Expiration"
 - Added filter (Disabled AD user, Enable AD user) under AD users listing, as it's already existed under Exchange Mailboxes.
 - Added export list option under AD users and Exchange mailbox.
 - Added exception to exclude distribution list from Disclaimer/under disclaimer settings.
 - Auto Disable/Enable Mailbox on ADUser Disable/Enable
 - Allow to Enable/Disable AD User for Shared/Resource mailbox.
 - Added an "Exclude" option in the Dynamic Distribution List during add/edit operations.
 - Add "Recipient Domain is:" in exception for disclaimer.
 - User selection in AD/Mailbox Group Actions is changed to match full UPN.
 - Set ABP as blank for mailbox optional handling added.
 - Allowed to edit Throttling template in Custom template under Organization management.
 - Updated handling for Message Copy setting in Mailbox Permissions for User Mailboxes.
 - AD User password settings job added if the setting is not getting applied in Create Mailbox for tracking and re-try.
 - On UPN change from AD User interface, new UPN is set as mailbox

- primary email.
- Handled email aliases in ADUser, Mailbox, Groups group actions search filter.
- @font-face {font-family:"Cambria Math"; panose-1:2 4 5 3 5 4 6 3 2 4; mso-font-charset:0; mso-generic-font-family:roman; mso-font-pitch:variable; mso-font-signature:-536870145 1107305727 0 0 415 0;}@font-face {font-family:Aptos; panose-1:2 11 0 4 2 2 2 2 2 4; mso-font-charset:0; mso-generic-font-family:swiss; mso-font-pitch:variable; mso-font-signature:536871559 3 0 0 415 0;}p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-unhide:no; mso-style-qformat:yes; mso-style-parent:""; margin-top:10.0pt; margin-right:0cm; margin-bottom:10.0pt; margin-left:0cm; line-height:115%; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Aptos",sans-serif; mso-ascii-font-family:Aptos; mso-ascii-theme-font:minor-latin; mso-fareast-font-family:"Times New Roman"; mso-fareast-theme-font:minor-fareast; mso-hansi-font-family:Aptos; mso-hansi-theme-font:minor-latin; mso-bidi-font-family:Arial; mso-bidi-theme-font:minor-bidi; mso-fareast-language:EN-US;} .MsoChpDefault {mso-style-type:export-only; mso-default-props:yes; font-size:11.0pt; mso-ansi-font-size:11.0pt; mso-bidi-font-size:11.0pt; font-family:"Aptos",sans-serif; mso-ascii-font-family:Aptos; mso-ascii-theme-font:minor-latin; mso-fareast-font-family:"Times New Roman"; mso-fareast-theme-font:minor-fareast; mso-hansi-font-family:Aptos; mso-hansi-theme-font:minor-latin; mso-bidi-font-family:Arial; mso-bidi-theme-font:minor-bidi; mso-font-kerining:0pt; mso-ligatures:none; mso-fareast-language:EN-US;} .MsoPapDefault {mso-style-type:export-only; margin-top:10.0pt; margin-right:0cm; margin-bottom:10.0pt; margin-left:0cm; line-height:115%;}div.WordSection1 {page:WordSection1;} Microsoft CSP/Office365:**
- Automatically cancel jobs related to O365 tenant sync, user sync, and licensing if tenant management is not enabled.
- Implemented auto cancellation O365 jobs related to a tenant if tenant management is disabled.
- Added Sync All users action in O365 User Group Operations

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- Enhanced O365 Subscription interface import feature to show Subscription Id.
 - Auto add .onmicrosoft alias in o365 handled.
 - Added optional field for Registration Id in O365 order form.
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- IAM Role & Access Control per VM
 - Implemented VM Management REST API
 - Enhanced Hyper-V Server Group Setting (VM Storage Location)
 - Added permissions to manage VM Start, Stop, Suspend, Move

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actions.

- Added NETBIOS Name in Virtual Machine Listing.
- Added VPS location settings in Add/Edit Server in VPS Standalone Server Group.
- Allowed multiple server groups assigned to Reseller plan in VPS module to reseller for customer subscription assignment.
- Added CentOS7 under OS types in Hyper-V.
- Bandwidth Quota display issue fixed in VPS module.
- AlmaLinux 9.x version integration added under Hyper-V Linux OS.

4. Resolved / Fixed Issues

- **General (MachPanel, AD, ADSync, Billing, REST API):**
 - Backup Notification emails will not be sent to default provider email if the email is removed from backup notification settings.
 - Error in displaying Control Server logs in Logs Explorer.
 - "About MachPanel" is removed from Customer and Reseller interface.
 - SSL setting display issue in Health > Compliance.
 - "Unable to cast object of type 'System' to type 'DataModels'" in ADUser certificate management.
 - Issue in Recycle Bin/Recovery showing unrelated Customer data.
 - Authentication as ADUser for Customer/Contact added for ADSync client.
 - Handled Primary server Health report not getting populated due to DB error.
 - Issue in MFA handling when Duo is configured.
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- Mailbox Template not getting updated on Customer Move from 1 Reseller to another.
 - Login Disable users (Shared, Resource mailboxes) are skipped when adding Group Jobs for setting AD User Password Settings.
 - UPN and Email are set in lower case in Bulk Mailbox creation.
 - Issue in Mailbox Recycle Bin and Recovery handling fixed where Mailbox does not appear in Recovery.
 - Issue in Disclaimer add/edit due to Left and Right double quotation mark used in disclaimer body.
 - Set Password policy job cannot be added or processed for disabled users.
 - Mailbox quota not getting set to 0 on Disable ADUser from listing.
 - On UPN change additional email address is added but not being set as primary in exchange mailbox.
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CSP/Office365:
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- CSP Automation - Fixed error encountered when provisioning tenant for South Africa (where the TRN ID is missing).
- GUID related error in O365 subscription import.
- Object Reference error when updating a subscription quantity in O365.
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VPS (Hyper-V):**

- Wrong error message for VM permanent Delete
- VM Disk Usage issue on Subscription limits when VM is imported in panel.
- Error in VPS provisioning due to wrong table in stored procedure.
- VHD archive on deletion not working as needed.
- VM preview image not working.
- No record found error in VPS Setup.
- Quota value displayed for disk space on Add VPS screen.
- Wrong OSName in VM listing.
- Storage type issue in VM import.
- Error in getting virtual switch in Cluster environment.
- Enable-VMIntegrationService "Guest Interface" fails on hosts when using other than English language handled. Have to set correct name on Hyper-V Host machines in registry. The integration service name can be mentioned in registry path: SOFTWARE\MachSol\MachPanel, new string key: VMIntegrationServiceName, value: "Guest Service Interface". Update the value "Guest Service Interface" in desired Host Machine Language.
- Changing password not working in Hyper-V Linux VM handling.
- Old VM archive files not getting deleted.
- VM remove in Single VM subscription cancellation.
- Arithmetic operation error in VM import.
- Hyper-V CentOS Password update issue fixed.
- Issue in unselecting bandwidth tier associated to a customer's plan.
- VPS Service Queue Suspend/Resume Entry Issue.

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MachPanel Knowledgebase

<https://kb.machsol.com/Knowledgebase/55783/MachPanel-Build-v7360-Release-No...>