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## Parallels Plesk Panel Tips & Tricks

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# Agenda

- Deployment

1. Plesk Installation
2. Plesk Alternative Views
3. Plesk Deployment Modes
4. Keeping Plesk up-to-date. Upgrade techniques
5. Link to providers' store
6. Plesk Licensing

- Operations

1. Service Tools
2. Tuning PHP & Apache
3. Mail system on Unix
4. IPv6 and SNI
5. Applications. Storefront
6. Switch to Plesk 10
7. Migration from previous versions

# Plesk Installation

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# Installation Options

- Parallels Installer

- Downloadable from Parallels site
  - <http://www.parallels.com/download/plesk/10/>
- Uses Parallels meta-data and package repository
- Recommended for individual use and distributors not providing managed hosting on Plesk
- Simplified default installation by downloadable script:
  - `wget -O - http://autoinstall.plesk.com/one-click-installer | sh`
    - Detects OS type
    - Downloads correct Installer version
    - Runs installation with typical configuration

- Local Repository mirror

- Installer can be redirected to a mirrored version of repository
  - `-- source <Your local repository URL>`
- Speeds up installation
- Can be used to control available updates

# Installation Options (continued)

- Installation in PVC environment via Virtuozzo templates
  - + Unifies software installed in containers on the same node
  - + Simplifies creation of containers
  - Requires upgrades to be managed by provider
- “Concerto” PVC license – bundled PVC and set of Plesk license
- Mirrored templates repository
  - Gives provider more control to manage multiple PVC nodes in datacenter
- With Plesk 10 – two types of templates
  - Version-free
  - Updatable within major version
- Find more in **Automating Panel Deployment** located at <http://www.parallels.com/products/plesk/documentation>

# Installation Tips

- Run environment pre-check script before installation or upgrade.

- Find script at <http://kb.parallels.com/9436>



#### Before You Begin

Please run our Environment Pre-Check Script to insure that your environment and system components are ready to upgrade to Plesk 10. Please see more at: <http://kb.parallels.com/en/9436>.

- Checks known environment preconditions
  - Advices on necessary configuration changes
  - Detects known bug conditions and points at workarounds
  - Checks Plesk 10 business model compatibility with previous setup and advices about upgrade path.
- The script is permanently maintained. New issues discovered are put into it; resolved ones taken out.
  - Fixing reported issues before installation or upgrade will make it less troublesome

# Installation Tips

- Report your issues efficiently:
  - Send mail to [bugreport@parallels.com](mailto:bugreport@parallels.com)
  - Include:
    - log file from
      - /tmp/autoinstaller3.log
      - C:\<random>\autoinstaller3.log
    - Version from
      - /usr/local/psa/version or /opt/psa/version
      - C:\program files (x86)\parallels\plesk\version
    - OS
  - or fill bug report online at <http://www.parallels.com/support/request/>

# VZ Installation Tips

- Turn off offline management for Plesk port
  - Unix:  
 `vzctl set CT_ID --offline_management yes --offline_service vzpp --save`
  - Windows:  
 `vzctl set CT_ID --offline_management yes --save`   
 `vzcfgt set CT_ID offlineservices vzpp`
  - You still have offline management for the container
  - Virtuozzo stops proxy-ing Plesk calls
  - Can be done via command line or from PVA UI
- Turn off templates auto-detection
  - PVC can detect installed templates by packages included into templates
  - Doesn't work with two products reusing the same packages (PSBP / PPP)
  - `APP_TEMPLATE_AUTODETECTION=no" >> /etc/vztt/vztt.conf`



# Plesk Alternative Views

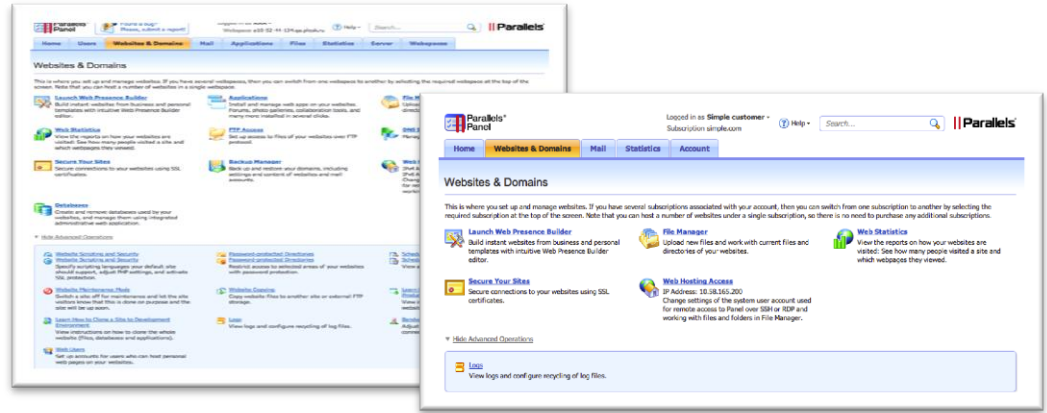
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# Plesk Alternative Views - Overview

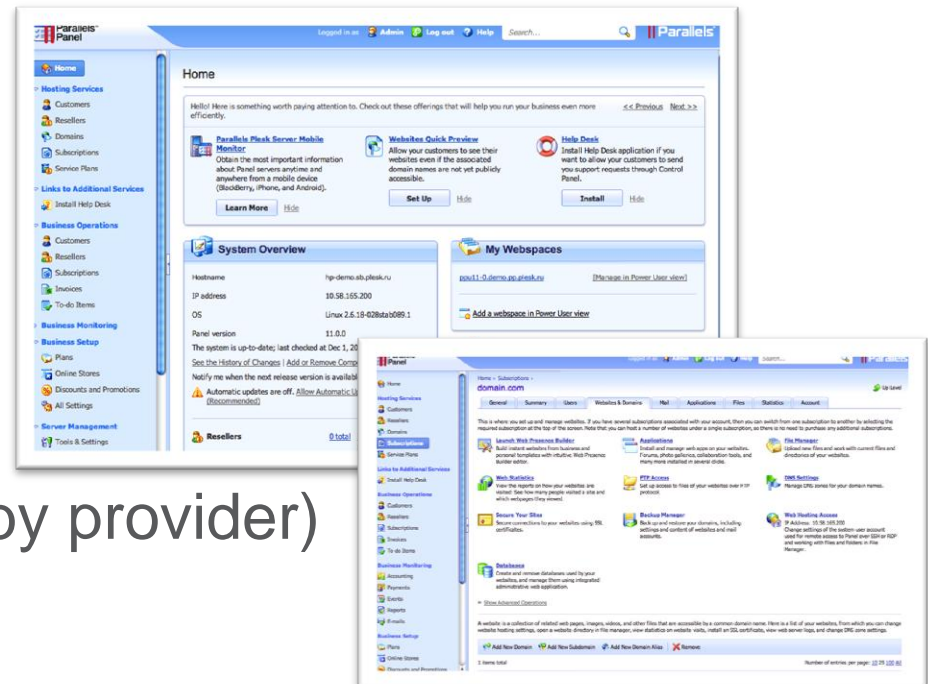
## VPS / Dedicated:

- Power User View (your sites only)
- **NEW!** Simple View (basic operations only)



## Professional hosting:

- Service Provider View (w/ Resellers & Customers)
- **NEW!** “Classic” view – all hosting operations in Admin Panel
- Pre-select appropriate view (by provider)
- Or customer can choose



# Plesk Alternative Views – “Service Provider”

The screenshot displays the Parallels Plesk Panel interface. At the top, it shows the user is logged in as 'Admin' with options to 'Log out' and 'Help'. A search bar is also present. The main navigation menu on the left includes sections for 'Home', 'Hosting Services' (Customers, Resellers, Domains, Subscriptions, Service Plans), 'Links to Additional Services' (Install Help Desk), 'Business Operations' (Customers, Resellers, Subscriptions, Invoices, To-do Items), 'Business Monitoring', 'Business Setup' (Plans, Online Stores, Discounts and Promotions, All Settings), and 'Server Management' (Tools & Settings, Service Nodes).

The main content area is titled 'Home' and contains a message: 'Hello! Here is something worth paying attention to. Check out these offerings that will help you run your business even more efficiently.' Below this are three featured tiles: 'Parallels Plesk Server Mobile Monitor', 'Websites Quick Preview', and 'Help Desk'. A 'System Overview' window is open, showing system details for 'hp-demo.sb.plesk.ru'.

System Overview	Value
Hostname	hp-demo.sb.plesk.ru
IP address	10.58.165.200
OS	Linux 2.6.18-028sta
Panel version	11.0.0

The System Overview window also includes a 'Resellers' section showing '0 total' and buttons for 'add' and 'new'. The 'Websites & Domains' section in the background window lists various tools like 'Launch SiteBuilder', 'Mobile Websites', 'Applications', 'File Manager', 'Web Statistics', 'FTP Access', 'DNS Settings', 'SSL Certificates', 'Backup Manager', 'Web Hosting Settings', and 'Databases'.

# Plesk Alternative Views – “Classic” View

The screenshot displays the Parallels Panel interface for a user logged in as 'Admin'. The main content area is titled 'domain.com' and is divided into several sections:

- Navigation:** A top bar with 'Logged in as Admin', 'Log out', 'Help', and a search field. A left sidebar contains navigation links for Home, Hosting Services, Customers, Resellers, Domains, Subscriptions, Service Plans, Links to Additional Services, Business Operations, Business Monitoring, and Business Setup.
- Subscription Management:** A row of tabs: General, Summary, Users, Websites & Domains (selected), Mail, Applications, Files, Statistics, and Account. Below this, a text block explains that this is where users set up and manage websites, and that multiple subscriptions can be managed under a single account.
- Tools and Services:** A grid of icons and links for various services:
  - Launch Web Presence Builder:** Build instant websites from business and personal templates.
  - Applications:** Install and manage web apps like forums and galleries.
  - File Manager:** Upload new files and work with current files and directories.
  - Web Statistics:** View reports on website visits and page views.
  - FTP Access:** Set up access to website files over FTP.
  - DNS Settings:** Manage DNS zones for domain names.
  - Secure Your Sites:** Secure connections using SSL certificates.
  - Backup Manager:** Back up and restore domains, websites, and mail accounts.
  - Web Hosting Access:** Change settings for remote access via SSH or RDP.
  - Databases:** Create and manage databases used by websites.
- Advanced Operations:** A link to 'Show Advanced Operations'.
- Website Definition:** A text block explaining that a website is a collection of related web pages, images, videos, and other files accessible by a common domain name.
- Domain Management:** A row of buttons: 'Add New Domain', 'Add New Subdomain', 'Add New Domain Alias', and 'Remove'.
- Summary:** '1 items total' and 'Number of entries per page: 10 25 100 All'.
- Table:** A table with columns for 'Domain' and 'Hosting'.

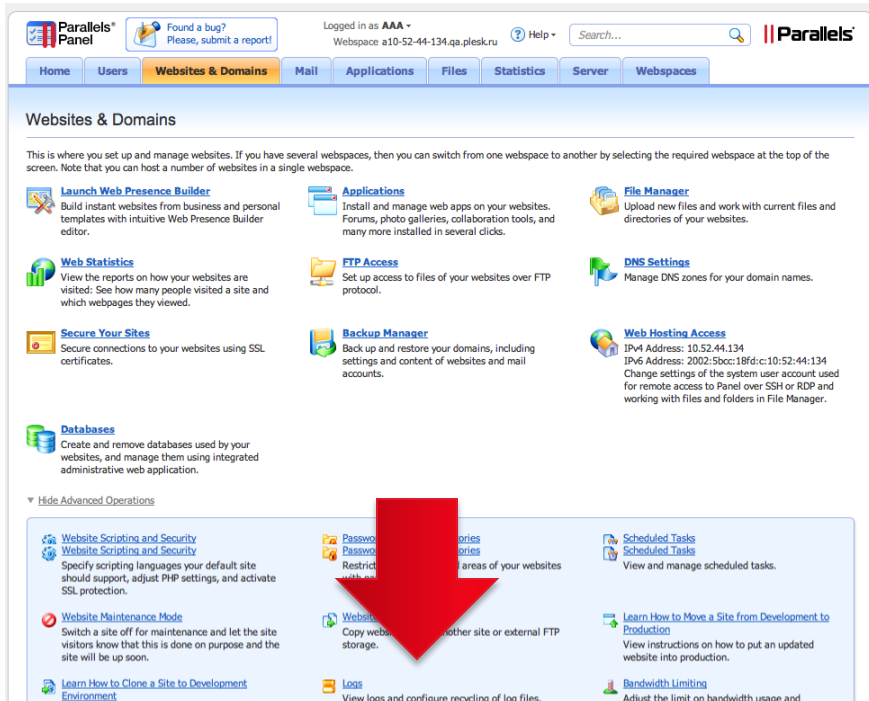
Auto enabled for all upgrades from 8.x/9.x

# Plesk Alternative Views – “Power User”

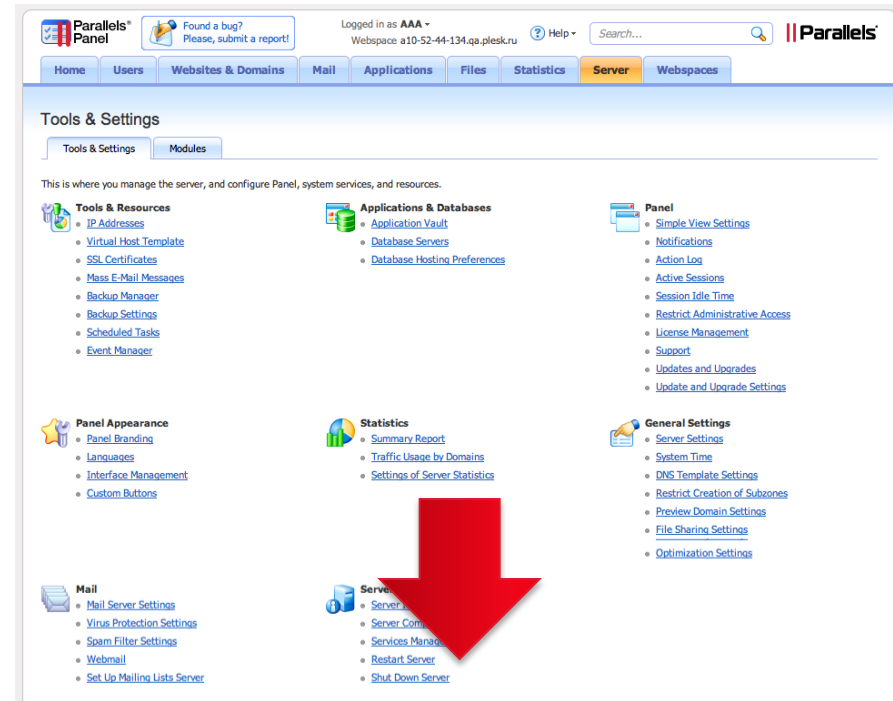
The screenshot shows the Plesk control panel interface. At the top, it indicates the user is logged in as 'Admin' and provides the URL 'Webospace ppu11-0.demo.pp.plesk.ru'. A navigation bar includes tabs for Home, Users, Websites & Domains (which is selected), Mail, Applications, Files, File Sharing, Statistics, Server, and Webspaces. The main content area is titled 'Websites & Domains' and contains a descriptive paragraph: 'This is where you set up and manage websites. If you have several webspaces, then you can switch from one webspace to another by selecting the required webspace at the top of the screen. Note that you can host a number of websites in a single webspace.' Below this are several management options, each with an icon and a brief description: 'Launch Web Presence Builder' (Build instant websites from business and personal templates with intuitive Web Presence Builder editor), 'Web Statistics' (View the reports on how your websites are visited: See how many people visited a site and which webpages they viewed), 'Secure Your Sites' (Secure connections to your websites using SSL certificates), 'Databases' (Create and remove databases used by your websites, and manage them using integrated administrative web application), 'Applications' (Install and manage web apps on your websites. Forums, photo galleries, collaboration tools, and many more installed in several clicks), 'FTP Access' (Set up access to files of your websites over FTP protocol), 'Backup Manager' (Back up and restore your domains, including settings and content of websites and mail accounts), 'File Manager' (Upload new files and work with current files and directories of your websites), 'DNS Settings' (Manage DNS zones for your domain names), and 'Web Hosting Access' (IP Address: 10.58.165.200. Change settings of the system user account used for remote access to Panel over SSH or RDP and working with files and folders in File Manager). A link for 'Show Advanced Operations' is located at the bottom left of the main content area.

**Recommended for most customers,  
but NOT for professional hosters**

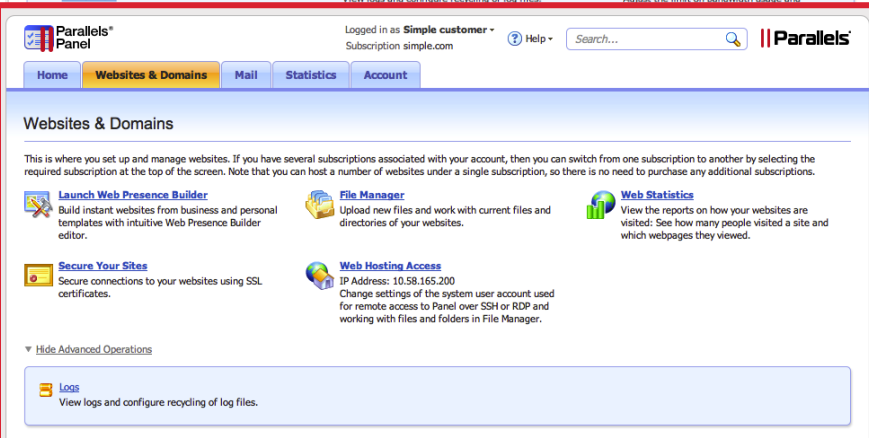
# Plesk Alternative Views – “Simple View”



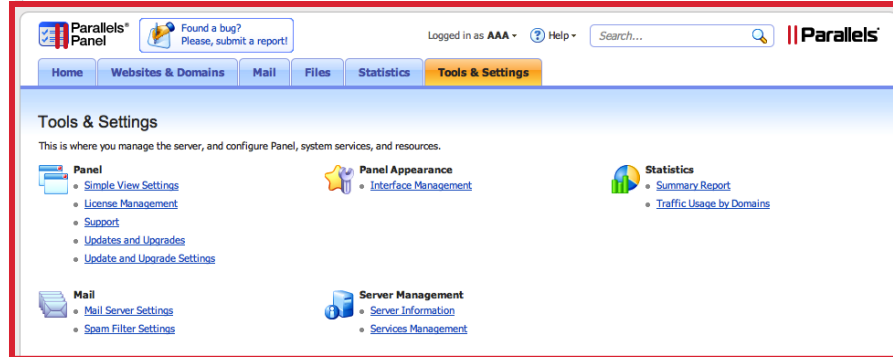
This screenshot shows the 'Websites & Domains' view in the Plesk Panel. The user is logged in as 'AAA' with the workspace 'a10-52-44-134.qa.plesk.ru'. The navigation menu includes Home, Users, Websites & Domains (selected), Mail, Applications, Files, Statistics, Server, and Webspaces. The main content area is titled 'Websites & Domains' and contains several tool icons and descriptions: Launch Web Presence Builder, Web Statistics, Secure Your Sites, Databases, Applications, FTP Access, Backup Manager, File Manager, DNS Settings, and Web Hosting Access. A red arrow points to the 'Advanced Operations' section, which includes Website Scripting and Security, Website Maintenance Mode, Learn How to Clone a Site to Development Environment, Passwords, Scheduled Tasks, Learn How to Move a Site from Development to Production, Logs, and Bandwidth Limiting.



This screenshot shows the 'Tools & Settings' view in the Plesk Panel. The user is logged in as 'AAA' with the workspace 'a10-52-44-134.qa.plesk.ru'. The navigation menu includes Home, Users, Websites & Domains, Mail, Applications, Files, Statistics, Server (selected), and Webspaces. The main content area is titled 'Tools & Settings' and contains several tool icons and descriptions: Tools & Resources (IP Addresses, Virtual Host Template, SSL Certificates, Mass E-Mail Messages, Backup Manager, Backup Settings, Scheduled Tasks, Event Manager), Applications & Databases (Application Vault, Database Servers, Database Hosting Preferences), Panel (Simple View Settings, Notifications, Action Log, Active Sessions, Session Idle Time, Restrict Administrative Access, License Management, Support, Updates and Upgrades, Update and Upgrade Settings), Panel Appearance (Panel Branding, Languages, Interface Management, Custom Buttons), Statistics (Summary Report, Traffic Usage by Domains, Settings of Server Statistics), General Settings (Server Settings, System Time, DNS Template Settings, Restrict Creation of Subzones, Preview Domain Settings, File Sharing Settings, Optimization Settings), Mail (Mail Server Settings, Virus Protection Settings, Spam Filter Settings, Webmail, Set Up Mailing Lists Server), and Server Management (Server Information, Services Management, Restart Server, Shut Down Server).



This screenshot shows the 'Websites & Domains' view in the Plesk Panel for a 'Simple customer'. The user is logged in as 'Simple customer' with the subscription 'simple.com'. The navigation menu includes Home, Websites & Domains (selected), Mail, Statistics, and Account. The main content area is titled 'Websites & Domains' and contains several tool icons and descriptions: Launch Web Presence Builder, Secure Your Sites, File Manager, Web Hosting Access, and Web Statistics. A red arrow points to the 'Advanced Operations' section, which includes Logs.



This screenshot shows the 'Tools & Settings' view in the Plesk Panel for a 'Simple customer'. The user is logged in as 'AAA'. The navigation menu includes Home, Websites & Domains, Mail, Files, Statistics, Tools & Settings (selected), and Webspaces. The main content area is titled 'Tools & Settings' and contains several tool icons and descriptions: Panel (Simple View Settings, License Management, Support, Updates and Upgrades, Update and Upgrade Settings), Panel Appearance (Interface Management), Statistics (Summary Report, Traffic Usage by Domains), Mail (Mail Server Settings, Spam Filter Settings), and Server Management (Server Information, Services Management).

# Plesk Alternative Views – Selection and Tuning

## How to select

- Can choose at first login
- Can change any time at “**Interface Settings**”
- Can be pre-selected by provider (CLI)
  - `.../poweruser -on -simple [-lock]`
- Can lock with “**-lock**” option.  
*VPS Admin cannot change features available and cannot leave restricted mode*
- If provider’s support needs to retune Plesk, they need to
  1. unlock,
  2. change current view into full featured
  3. do all operations
  4. change view back
  5. lock

## Tuning

- Simple View can be tuned precisely via “**Simple View Setting**”, i.e.
  - Restrict to single workspace
  - Hide other Users
  - Restrict access to any feature in “Tools & Settings”
  - Preconfigure hosting settings, etc
- CLI available for preconfiguration
- For professional hosters (have customer accounts)
  - Add or remove features via limits/permissions
    - zero (“0”) limit = no feature
    - Uncheck permission = no feature

Select your interface



### Power User view

This view is intended for enabling a single, simplified interface for server administrators to manage their own websites, e-mail accounts, and other services.

Use Simple view

Select this option to limit the number of actions the administrator can take in the Power User view. To change the availability of the actions, go to [Tools & Settings > Simple View Settings](#).



### Service Provider view

This view offers interfaces for use by the server administrator, resellers, and hosting users. It also includes an integrated billing system for automatically invoicing and charging your customers. Even if you use an external billing system, but require an interface for your customers to control their hosted services, you should use this view.

Open hosting operations in Server Administration Panel

Select this option if you want to perform hosting operations directly from Server Administration Panel. This option is convenient for people who upgraded from previous Panel versions and are accustomed to work in a single panel. If the option is cleared, hosting operations will be available in Control Panel (new window).

# Plesk Deployment Modes

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# Plesk Deployment Modes

- Regular
- VPS Optimized Mode
  - See more at **Optimizing Panel for Operation in VPS** topic of **Automating Panel Deployment** guide at <http://www.parallels.com/products/plesk/documentation/>
  - Reduced resource consumption of hosting services to win on container density
  - Provided as PVC template (deploy to enable)
  - Also can be enabled in CLI (for non-PVC / non-templated installations)
  - Specifics
    - Disabled InnoDB storage in MySQL. Read if this is appropriate for your goals: <http://en.wikipedia.org/wiki/InnoDB>
    - Reduced number of Apache modules
      - Can tune available modules
      - We are working on providing more dynamics here in the future releases
      - PHP running in FastCGI mode
  - Allows customers to save on ordered VPS power

Keep Plesk Up-to-Date

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# Upgrade Options

- Plesk news. RSS feed:
  - [www.parallels.com/products/plesk/rss](http://www.parallels.com/products/plesk/rss)
- Kinds of update:
  - Version-to-version upgrades
  - 3<sup>rd</sup> party updates
  - Micro-updates (MU)
- Ways to install/update:
  - Parallels Plesk Autoinstaller (*for VPS and Dedicated*)
  - PVC templates (*for PVC Containers only*)
- Choose appropriate Release Tier  
*Pre-release / Release / Stable*

# How Upgrade/Update Works

## Overview

- Autoinstaller self-upgrade prior to software upgrade
- Pre-update environment checker script  
Seeks and notifies for problems discovered
- 3<sup>rd</sup> parties are retrieved by dependencies
- Apache, PHP, MySQL shipped and updated for CentOS

## If failed:

- can re-launch upgrade  
`.../bootstrapper.sh repair`
- preventing damage
  - no RPM mess (not started until upgrade reconfiguration is complete)
  - no ruined DB
  - easy to repair integration

## Customer Improvement Program

- Automated problems reports.  
Voluntary, privacy protected.


```
Select the desired products and their versions
=====

The following product versions are available:

1. [*] Parallels Plesk Panel
2. (*) Parallels Plesk Panel 10.3.0
3. ( ) Parallels Plesk Panel 10.2.0

N) Go to the next page; P) Go to the previous page; Q) Cancel installing
To select a version, type the respective number;
Select an action [N]:

Would you like to help Parallels make better products by sending information about installation and upgrade problems? [Yes]: █
```



# Upgrade Options

- Micro-updates (MU)

- first priority fixes, safe, no downtime, replace only particular files impacted
- see changelog at <http://download1.parallels.net/Plesk/PP10/parallels-plesk-panel-10-linux-updates-release-notes.html> (unix) or <http://download1.parallels.net/Plesk/PP10/parallels-plesk-panel-10-win-updates-release-notes.html> (windows)
- installed automatically (*unless disabled*) in all installation modes (Auto-installer or PVC template)
- If you maintain a mirrored repository of Plesk, ensure you update your mirror often enough to get recent micro-updates

# Upgrade Options

- New releases (*10.1.1, 10.2.0, etc*)
  - **Parallels Autoinstaller** (*Dedicated and VPS*) – owner of each box can upgrade independently. See new version available in UI and start upgrade
  - **PVC Templates** (*PVC Containers only*) – upgrade of all boxes is managed by provider
    - Sample: **vzpkg update 101 pp10**
    - Two options available:
      - “**Version-free**” – open for upgrade to any future version  
[pp-redhat-el5-x86-ez-3.0.0-35.prl.297106.noarch.rpm](http://pp-redhat-el5-x86-ez-3.0.0-35.prl.297106.noarch.rpm)
      - “**Major**” – keep containers at the latest version of 10.x releases  
[pp10-redhat-el5-x86-ez-3.0.0-35.prl.297106.noarch.rpm](http://pp10-redhat-el5-x86-ez-3.0.0-35.prl.297106.noarch.rpm)
- Find more in **Automating Panel Deployment** located at <http://www.parallels.com/products/plesk/documentation>

# Release Tiers - Intro

- New 4-tier release cycle:
  - 1) “**Testing**” — early preview builds. Not for production servers. ~1 month before RTM.
  - 2) “**Current**” — early production builds. Adopted by Parallels Partners at RTM.
  - 3) “**Release**” — general public builds. Available at GA. Recommended for upgrade
  - 4) “**Stable**” — were used for awhile, received multiple fixes. Probably 2 months since GA. For most cautious users
- Choose which level to upgrade to
  - **Manual upgrade** (notification) to Current / Release / Stable or None
  - optional **Automatic upgrade** to Stable

- Control upgrade availability from CP:

Home >

### Update and Upgrade Settings

Here you can set up the Panel update and upgrade policy. While updates include some minor fixes, updates also include new features. We recommend you to turn on automatic updates and choose a Panel version for further upgrades. This gives you the ability to try new Panel features before the official release, while the stable version is chosen Panel version becomes available, Panel will notify you on the Home page.

Notify me when the upgrade to the following Panel version is available:

- Testing version  
This version becomes available earlier than other versions and we do not provide technical support.
- Pre-release version  
This version has all claimed features and previous versions. This version you become the first to see the new features.
- (Recommended) Release version  
A release version has passed all quality tests. Minor stable versions.
- Stable version  
A stable version has received all updates and a number receives any updates.

Automatically download and install updates for the currently installed version (Recommended)

Upgrade to a new stable version of Panel when it becomes available

OK Cancel

# Release Tiers – More Facts

- **Only RELEASE+ (GA) for pre-10.4 versions and EZ templates.**
  - can only upgrade to RELEASE (GA) and STABLE, but can't see TESTING and CURRENT (RTM)
- **No accidental upgrade to TESTING.**
  - For trying TESTING need to download AI from parallels.com or run AI with special option (`--all-versions`)
- **Upgrade from TESTING.**
  - If on TESTING, can do upgrades to next TESTING version (i.e. Preview1 to Preview2) or to any next build (CURRENT, RELEASE, STABLE)
    - Once upgraded to non-TESTING tier, upgrades to TESTING will be blocked
  - Server is not eligible for support if ever was on TESTING. See `select * from upgrade history`
- **Provider can control via**  
**RELEASE\_TIERS\_FILTER=stable:**
  - on UNIX: `/root/.autoinstallerrc`
  - on Windows: `c:\.autoinstallerrc`



# Plesk Licensing

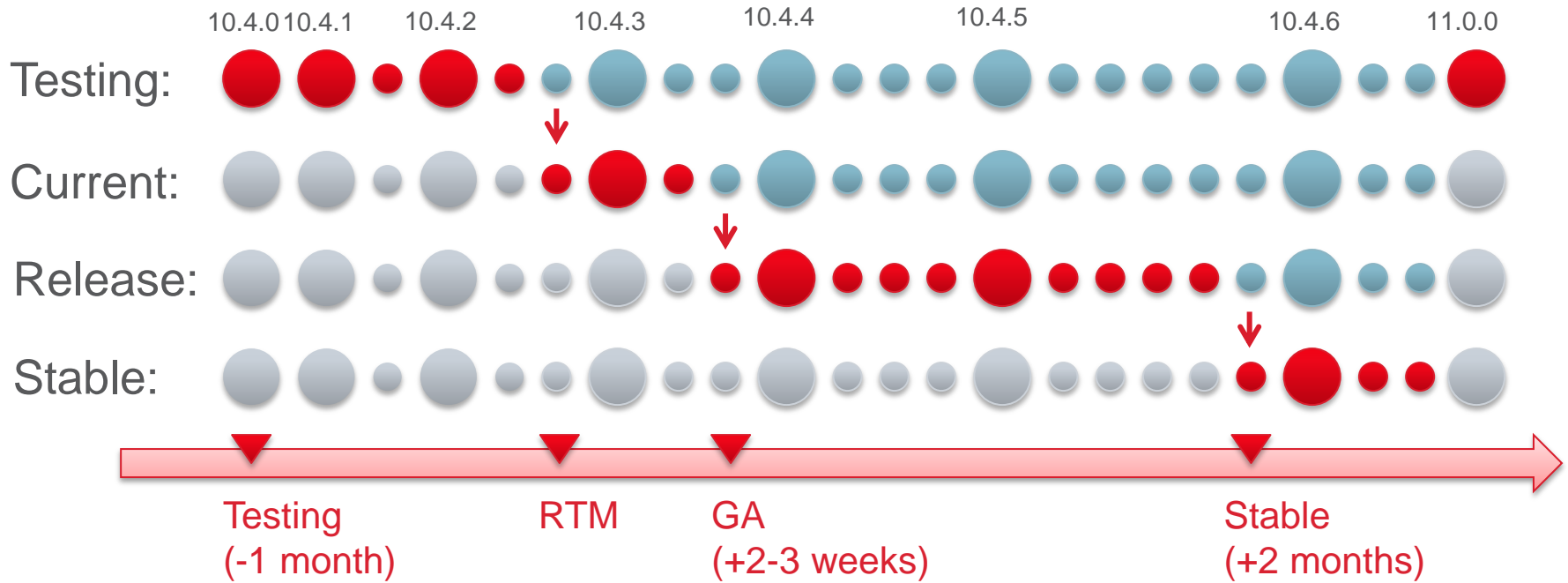
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# Licensing Options

- For dedicated / VPS hosting
- How to get a license key on newly provisioned host?
  - Get a key from KA. Deploy it on Plesk host
- Getting Key from KA
  - Manual
  - Automated (on demand)
    - See *Partner API Guide* at <http://www.parallels.com/ptn/documentation/ka/>
- Deploying to Plesk host
  - Manual
  - Automated
    - Include *`./license -i /tmp/pp10key.xml`* in your automation script (*license.exe* on Windows)
    - See *“Installing and Upgrading License Key”* chapter of **“Automating Panel Deployment”** at <http://www.parallels.com/products/plesk/documentation/>
  - Self-retrieved / IP-based
    - Use `bindKey()` command of KA Partner API (<http://www.parallels.com/ptn/documentation/ka/>)

# Release Tiers – Builds and Microupdates



- Build version, i.e. 10.4.0, 10.4.1, 10.4.2, etc
- ● ● A series of Micro Updates following that build, i.e. 10.4.1.1, 10.4.1.2

- Builds – when there are changes in installation/upgrade
- Micro Updates – stable changes for any weekly fixes (based on support, forums, etc)

# Operations

1. Service Tools
2. Tuning PHP & Apache
3. Mail system on Unix
4. IPv6 and SNI
5. Applications. Storefront
6. Switch to Plesk 10
7. Migration from previous versions

# Service Tools

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# Service Tools

- Check service tools updates:
  - <http://forum.parallels.com/forumdisplay.php?f=642>
- Database checker
- Pre-upgrade checker
- Log analyzer (Spider tool)
- Assistance with mass migration for providers
- Assistance in migration for customers
  - <https://www.parallels.com/support/plesk/free10assistance/>
- Troubleshooting Posters
  - <http://kb.parallels.com/en/113217>

# Tuning PHP & Apache

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# Custom PHP Settings - Overview

## Overview

- Can tune via Service Plans in Shared Hosting
- Can tune directly on each Site in Power User and Customers (if allowed)
- Feature access control through Plesk permission system
  - PHP performance settings – enabled via “**Hosting performance settings management**” permission
  - other PHP settings – enabled via “**Common PHP settings management**” permission (including security and troubleshooting)
  - Free-text for additional parameters – Admin only
  - “**Hosting settings management**” – blocks the whole feature if not granted

## Attention:

- **memory\_limit** and **max\_execution\_time** can be overridden from user script unless run in mod\_php

## Background:

- Linux: In mod\_php: **httpd.include** gets **php\_flag option = value**
- Linux: In CGI/FastCGI: **.../etc/php.ini**
- Windows: Registry, i.e. **HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\PHP\Per Directory Values\C\inetpub\vhosts\domain.com\httpdocs**
- Database: **PhpSettings**, **PhpSettingsParameters**.



# Custom PHP Settings – For Individual Site

The image shows two overlapping screenshots of the Parallels Panel interface. The top screenshot displays the 'Websites & Domains' section, which includes various management tools like 'Launch Web Presence Builder', 'Applications', 'File Manager', 'Web Statistics', 'Secure Your Sites', and 'Database'. The bottom screenshot shows the 'Hosting Settings for domain.com' configuration page. In this page, the 'PHP Settings' tab is selected and circled in red. A large red arrow originates from the 'domain.com' entry in the 'Hosting' list on the left and points to the 'PHP Settings' tab. Below the tab, the 'Performance settings' section is visible, showing configuration options for 'memory\_limit' and 'max\_execution\_time'. The 'memory\_limit' dropdown menu is open, showing options: 'Default' (selected), '8M', '16M', '32M', and '64M'. The 'max\_execution\_time' dropdown is also open, showing 'Default' (selected) and 'Enter custom value'.

Parallels® Panel  
Logged in as Admin - Webspaces domain.com  
Home Users Websites & Domains Mail Applications Files Statistics Server Webspaces

## Websites & Domains

This is where you set up and manage websites. If you have several webspaces, then you can switch from one webspaces to another by selecting the required webspaces at the top of the screen. Note that you can host a number of websites in a single webspaces.

- Launch Web Presence Builder**  
Build instant websites from business and personal templates with intuitive Web Presence Builder editor.
- Applications**  
Install and manage web apps on your websites. Forums, photo galleries, collaboration tools, and many more installed in several clicks.
- File Manager**  
Upload new files and work with current files and directories of your websites.
- Web Statistics**  
View the reports on how your websites are visited: See how many people visited a site and which webspaces they viewed.
- Secure Your Sites**  
Secure connections to your websites using SSL certificates.
- Database**  
Create and remove databases used by your websites and manage them using integrated administrative web application.

Show Advanced Operations

A website is a collection of related web pages, images, website hosting settings, open a website directory in file manager.

Add New Domain Add New Subdomain

1 items total

Domain	Hosting
domain.com	Website

## Hosting Settings for domain.com

Up Level

General PHP Settings

Here you can specify the PHP configuration that is unique for this website (apart from the other sites in your subscription). This might be useful when you want to limit the system resources consumption by PHP scripts or meet the requirements of a certain web app. When you set a parameter to Default value, PHP will use the parameter's value from the server-wide PHP configuration. Your current PHP version is 5.3.2.

### Performance settings

memory\_limit  Select value

- Default
- 8M
- 16M
- 32M
- 64M

The maximum amount of memory in bytes a script is allowed to allocate. Set the value to -1 to have no memory limit (not recommended).

max\_execution\_time  Default  Enter custom value

# Custom PHP Settings - Samples

memory\_limit

Select value

- Default
- 8M
- 16M
- 32M
- 64M

The maximum amount of memory in bytes a script is allowed to allocate. S

max\_execution\_time

Default

Enter custom value

10

The maximum time in seconds a script is allowed to run before it is termi

open\_basedir

Select value

{DOCROOT}:/tmp/

Enter custom value

{DOCROOT}:/tmp/

The list of directories used to limit the files that can be opened by PHP and a semicolon (;) on Windows. For example, on Linux: /dir/upload:/u

error\_reporting

Select value

- Default
- ~E\_ALL
- E\_ALL & ~E\_NOTICE
- E\_ALL

The error reporting level.

and more

# Apache Modules

## Overview

- Load and unload Apache modules in Tools & Settings > Apache Optimization
- Goal: flexible control over RAM footprint
- CLI:  
.../bin/optimization\_settings --disable-module <name>
- Critical modules cannot be disabled
- If selected modules configuration will cause Apache fail to start, it will rollback to previous valid configuration

## Problems/concerns:

- For skilled admin only -  
i.e. cannot run Python if mod\_python isn't loaded

### Apache Modules Up Level

Here you can optimize Panel by switching off unused Apache modules. This optimization improves memory utilization and allows you to serve more hosting customers. Note that some modules are interdependent and can be switched off (on) only when the modules they depend on are off (on).

**This feature is for advanced users only.** Toggle modules only if you completely understand the consequences of your actions. Note that some modifications may decrease the Apache performance or even lead to its inoperability. In addition, these changes may affect certain Panel functions. For example, if you turn off mod\_perl or mod\_php, the Perl and PHP scripts (including webmail) will stop working on websites.

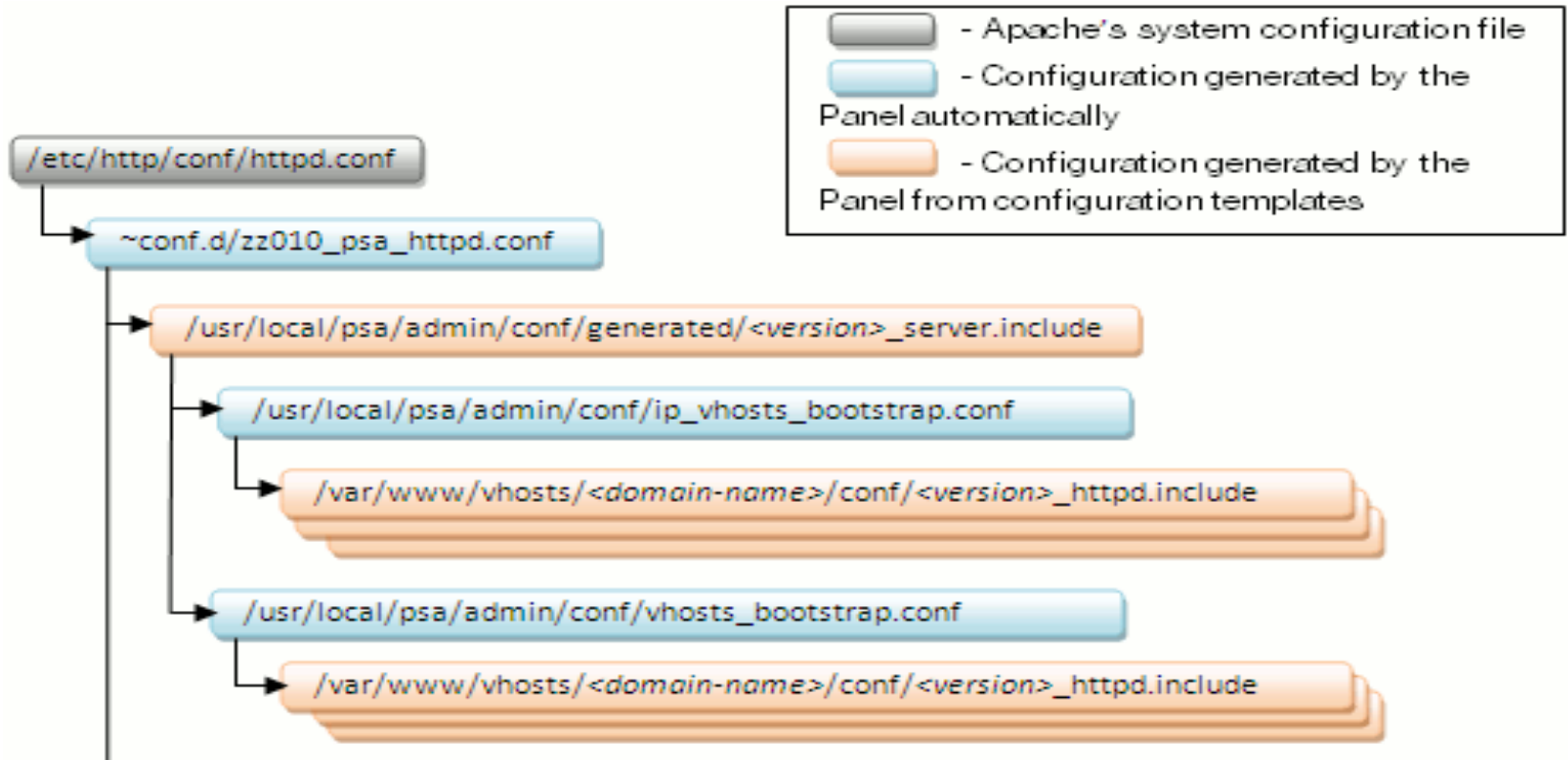
**Apache modules**

<input checked="" type="checkbox"/> php5	<input type="checkbox"/> asis	<input checked="" type="checkbox"/> auth_basic	<input checked="" type="checkbox"/> authn_alias
<input checked="" type="checkbox"/> authn_anon	<input type="checkbox"/> authn_dbd	<input checked="" type="checkbox"/> authn_dbm	<input checked="" type="checkbox"/> authn_default
<input checked="" type="checkbox"/> authnz_ldap	<input checked="" type="checkbox"/> authz_dbm	<input checked="" type="checkbox"/> authz_default	<input checked="" type="checkbox"/> authz_groupfile
<input checked="" type="checkbox"/> authz_owner	<input checked="" type="checkbox"/> cache	<input type="checkbox"/> cern_meta	<input checked="" type="checkbox"/> cgi
<input type="checkbox"/> cgid	<input type="checkbox"/> dbd	<input checked="" type="checkbox"/> deflate	<input checked="" type="checkbox"/> disk_cache
<input type="checkbox"/> dumpio	<input checked="" type="checkbox"/> expires	<input checked="" type="checkbox"/> ext_filter	<input checked="" type="checkbox"/> fgid
<input checked="" type="checkbox"/> file_cache	<input type="checkbox"/> filter	<input checked="" type="checkbox"/> headers	<input type="checkbox"/> ident
<input type="checkbox"/> imagemap	<input checked="" type="checkbox"/> include	<input checked="" type="checkbox"/> info	<input checked="" type="checkbox"/> ldap
<input type="checkbox"/> log_forensic	<input checked="" type="checkbox"/> logio	<input checked="" type="checkbox"/> mem_cache	<input checked="" type="checkbox"/> perl
<input checked="" type="checkbox"/> proxy	<input checked="" type="checkbox"/> proxy_ajp	<input checked="" type="checkbox"/> proxy_balancer	<input checked="" type="checkbox"/> proxy_connect
<input checked="" type="checkbox"/> proxy_ftp	<input checked="" type="checkbox"/> proxy_http	<input checked="" type="checkbox"/> python	<input checked="" type="checkbox"/> rewrite
<input checked="" type="checkbox"/> spelling	<input checked="" type="checkbox"/> status	<input type="checkbox"/> substitute	<input checked="" type="checkbox"/> suexec
<input type="checkbox"/> unique_id	<input checked="" type="checkbox"/> userdir	<input checked="" type="checkbox"/> usertrack	<input checked="" type="checkbox"/> version
<input checked="" type="checkbox"/> vhost_alias			

OK Cancel

# Tuning Apache Configuration

- Host can tune global server settings for Apache and the way virtual hosts are configured by the panel
  - <http://download1.parallels.com/Plesk/PP10/10.0.1/Doc/en-US/pdf/plesk-10-apache-configuration-guide.pdf>



# Tuning Apache Configuration (continued)

- Apache configuration files are generated by PHP code, which can be customized :
  - The set of default templates is located at:
    - *\$PRODUCT\_ROOT/admin/conf/templates/default/*
  - Templates Include:
    - Server configuration
    - Per-domain configuration for hosted and forwarded sites
    - Different aspects of virtual hosts
    - Webmail configuration

# Tuning Apache Configuration (continued)

- To customize just copy the desired PHP templates from .../default to .../custom directory and modify the code
- The templates are executed in the environment where the specific variables provide context of the current domain and hosting settings
- Samples of customs configuration for PCI compliant websites and working behind load-balancer are included into installations

# PCI Compliance Example

server.php:

```
.....  
<?php echo $VAR-  
>includeTemplate('server/PCI_compliance.php') ?>
```

```
.....  
PCI_compliance.php:  
<?php if (!$VAR->server->webserver->apache-  
>traceEnableCompliance): ?>  
        TraceEnable off  
<?php endif; ?>
```

ServerTokens ProductOnly

SSLProtocol -ALL +SSLv3 +TLSv1

SSLCipherSuite

ALL:!aNULL:!ADH:!eNULL:!LOW:!EXP:RC4+RSA:+HIGH:+MEDIUM

Mail

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# Mail changes

**Goal:** safe & efficient

## Agenda:

- **Postfix Reworked** – refactoring and improvements in Mail handling
  - **Native configuration for Postfix**  
(was Qmail compatible before)
- **Postfix is primary MTA** supported
  - Default for new installations
  - Receives new features
  - Qmail is still supported, but legacy now
- **“Sender IP”**. Email is sent from IP of customer (exclusive or shared)
- Reject SMTP session for over-quota mailboxes (instead of bounce mail sent). Backscatter protection (antispam).

## Limitations:

- **!!** “mail from:” validation is not yet enforced in sending via embedded sendmail (PHP & CLI) tool – will be in next version
- Incoming mail session will be rejected if one of recipients exceeded their quota
- “Sender IP” requires Postfix 2.7+

# Postfix Reworked – Problems Existed

- Performance and account density:
  - Mail handlers settings were stored ineffectively
  - Each SMTP session produced own process chain
  - Greylisting required receiving whole mail body
- Maintenance and troubleshooting:
  - Complicated Postfix configuration
- Stability:
  - Mail system stability was heavily influenced by 3<sup>rd</sup> parties and custom handlers

# Postfix Mail Filtering

- Postfix was switched to use Milter API for email messages filtering.
  - A big collection of various Milters can be found at <https://www.milter.org/>
  - See [http://www.postfix.org/MILTER\\_README.html](http://www.postfix.org/MILTER_README.html) for more details
- To enable a milter app with postfix do the following:
  - download and install selected Milter application
  - edit /etc/postfix/main.cf, find 'smtpd\_milters' configuration option and add your Milter application connection string after Plesk one using space or comma as a separator
  - restart Postfix
- Plesk mail handlers engine was refactored and made to use sql db instead of many configuration files and folders.
  - To simplify access to the db the /usr/local/psa/admin/sbin/mail\_handlers\_control tool was created.
  - The tool can list existing mail handlers using various criteria, modify or delete existing handlers, add new ones.

# Plesk IPv6 & SNI

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# Plesk – IPv6. General

- Supporting IPv6 for DNS, Web\*, Mail\*, FTP\*, etc
- IPv6 is accepted in all contexts (Panel, CLI, DB, etc)

The screenshot shows the Plesk 'IP addresses management' interface. It features a breadcrumb trail 'Home > Server Tools >' and a title 'IP addresses management'. On the left, there are navigation options like 'View, add' and 'Ad'. The main area displays a list of IP addresses with checkboxes and status indicators (shared or dedicated). A table on the right shows the mapping of these IP addresses to network interfaces.

IP Address	Interface
10.52.41.66 (shared)	eth0
2002:5bcc:18fd:c:20c:29ff:fec9:8cf0 (shared)	eth0
2002:5bcc:18fd:c:20c:29ff:fec9:8cf1 (dedicated)	eth0
2002:5bcc:18fd:c:20c:29ff:fec9:8cf2 (dedicated)	eth0

\* Requires specific versions of 3<sup>rd</sup> party software of Windows (see further slides)

# Plesk – IPv6. DNS

- DNS template includes
  - AAAA records for <domain>, mail., webmail., ns.
  - [ipv4.domain.com](#) (A) and [ipv6.domain.com](#) (AAAA) aliases

<input type="checkbox"/>	Host ▲	Record type	Value
<input type="checkbox"/>	<a href="#">&lt;domain&gt;.</a>	NS	ns.<domain>.
<input type="checkbox"/>	<a href="#">&lt;domain&gt;.</a>	A	<ip>
<input checked="" type="checkbox"/>	<a href="#">&lt;domain&gt;.</a>	AAAA	<ipv6>
<input type="checkbox"/>	<a href="#">&lt;domain&gt;.</a>	MX (10)	mail.<domain>.
<input type="checkbox"/>	<a href="#">&lt;domain&gt;.</a>	TXT	v=spf1 +a +mx -all
<input type="checkbox"/>	<a href="#">&lt;ip&gt; / 24</a>	PTR	<domain>.
<input type="checkbox"/>	<a href="#">ftp.&lt;domain&gt;.</a>	CNAME	<domain>.
<input type="checkbox"/>	<a href="#">ipv4.&lt;domain&gt;.</a>	A	<ip>
<input type="checkbox"/>	<a href="#">ipv6.&lt;domain&gt;.</a>	AAAA	<ipv6>
<input type="checkbox"/>	<a href="#">mail.&lt;domain&gt;.</a>	A	<ip>
<input type="checkbox"/>	<a href="#">mail.&lt;domain&gt;.</a>	AAAA	<ipv6>
<input type="checkbox"/>	<a href="#">ns.&lt;domain&gt;.</a>	A	<ip>
<input type="checkbox"/>	<a href="#">ns.&lt;domain&gt;.</a>	AAAA	<ipv6>
<input type="checkbox"/>	<a href="#">webmail.&lt;domain&gt;.</a>	A	<ip>
<input type="checkbox"/>	<a href="#">webmail.&lt;domain&gt;.</a>	AAAA	<ipv6>

# Plesk – IPv6. Web

- Dual-stack subscriptions. Each site can run on either of
  - Pure IPv4
  - Pure IPv6
  - **Dual-stack** (IPv4+IPv6)

Home > Customers > Sergey Lystsev >  
**Add Subscription for Sergey Lystsev**

This is where you add a new service subscription for your customer.

**Subscription**

Domain name \*

IPv4 address

IPv6 address

System user account used to manage files and folders of the web

Password \*  Very weak (?)

Repeat password \*

Service plan

# IPv6. Availability and Limitations

- All **Linux** in all configurations (**qmail/postfix**)
- **Windows 2008+**
  - requires **MS FTP 7 (Windows 2008 R2+)**  
If not available – FTP will be on IPv4, no pure IPv6 subscriptions
  - requires **MailEnable 5.10** (added in 10.2)  
If not available – mail won't be accepted in IPv6
- !! Windows 2003 (IIS6) isn't supported
- Parallels Virtuozzo Containers
  - !! requires **PVC 4.6**  
(*technically can run in PVC 4.0, but may have issues*)

## Limitations:

- !! Must have one IPv4 per Plesk server (for KA)
- !! Ensure network interfaces are IPv6-enabled (*default setting for modern OSes, but may be disabled for some reason*)
- !! Anonymous FTP isn't available in IPv6



# Plesk – SNI (Server Name Indication)

- Individual SSL certificates for multiple sites on a single shared IP
  - Individual certificate per each site in subscription
  - Individual certificate per each subscription on shared IPv4
- Extension of SSL/TLS
- Supported by all modern browsers (*on modern OSes*)
- Supported on Apache only (Unix)
  - IIS doesn't support SNI yet
- Available for CentOS 5+, SuSE 11.3+, Debian 6, RHEL 6
  - For CentOS5 custom Apache, PHP 5.3 and OpenSSL are shipped

## Limitations:

- !! Not supported for Windows / IIS
- !! Not supported in Internet Explorer (all versions) on Windows XP
  - Other browsers (i.e. Firefox) should be used
- !! Replaces default 3<sup>rd</sup> parties on CentOS 5

5. Applications. Storefront
6. Switch to Plesk 10
7. Migration from previous versions

# Link Plesk with Your Store

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# Links to Provider's Store

- Links are configured in panel.ini file; via command line or defined by the panel license key

The screenshot displays two sections of the Parallels Panel interface. The top section, titled "Services", contains five links with icons and descriptions:

- View Services**: View online services available from your provider. (Icon: red gift box)
- Manage Domain Names**: Update registration information for your domain names, specify name servers, and renew domain registration. (Icon: globe with wrench)
- Products from Parallels Partners**: Visit online store to purchase applications created for the Panel by Parallels partners. (Icon: shopping bag with coins)
- Register Domain Names**: Register domain names with a domain name registrar recommended by your provider. (Icon: globe with 'R' in a circle)
- Buy SSL Certificate**: Purchase SSL certificates to secure connections to the Panel and to the hosted websites. (Icon: certificate with checkmark)

The bottom section, titled "License Management", includes a breadcrumb trail "Home > Server Tools > License Management" and two tabs: "Parallels Panel License Key" and "Additional License Keys". Below the tabs is a "Tools" section with four icons and labels:

- Order Panel Add-Ons (Icon: globe with plus sign)
- Order Panel Upgrades (Icon: globe with key)
- Retrieve Keys (Icon: key with plus sign)
- Upload Key (Icon: blue folder with plus sign)

# Links to Provider's Store

- Read about configuration at

- <http://download1.parallels.com/Plesk/PP10/10.0.1/Doc/en-US/pdf/plesk-10-customization-guide.pdf>

- Offer add-ons from your store:

- Register and Manage Domain Names buttons

```
/usr/local/psa/bin/interface_template -p -domain_management_url <url>
```

- panel.ini

```
[marketplace]
registerDomainsUrl = " http://your-url.here "
```

- Order Panel Updates and Add-Ons

- Can be set via store\_id ordered from Parallels and included into the license

- panel.ini

```
[marketplace]
panelAndAddonsLicensesStore = " http://my-store.tld "
```

- Buy SSL Certificates buttons

```
/usr/local/psa/bin/interface_template -p -cert_purchasing_url <url>
```

- panel.ini

```
[marketplace]
buySslCertificatesUrl = "http://your-url.here "
```

# Links to Storefront and License Control

- Offer add-ons from your store :

- View Services button

```
/usr/local/psa/bin/interface_template -p -mpc_portal_url <url>
```

- Storefront

- panel.ini

```
[marketplace]
```

```
buyNow = " http://your-url.here "
```

```
[aps]
```

```
catalogUrl = " http://your-url.here "
```

- Plesk license key controls:

- Google Tools
- Extras (MPC) Buttons
  - Register & Manage Domain Names
  - Buy SSL Certificate
  - Link to Panel extras
- Store Button
- SiteBuilder

# Applications in Plesk 10

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# Applications

Home

Users

Mail

Websites & Domains

**Applications**

Statistics

Account

## Applications

### Featured Applications

View and install most recommended and popular apps on your websites.


### All Available Applications

View and install free and commercial apps on your websites. Apps packaged in APS format only require several clicks to be installed on your websites.

### Manage Installed Applications

Manage applications installed on your websites.

### Select a category

 [Show Search](#)



#### [Web](#) (86)

[Analytics](#), [Blog](#), [Catalog](#), [Content management](#), [E-commerce](#), [eLearning](#), [Forum](#), [Gallery](#), [Search](#), [Tools](#)



#### [Collaboration](#) (37)

[Calendar](#), [Chat](#), [E-mail](#), [IP telephony](#), [Portal](#), [Project management](#), [Web conferencing](#)



#### [Infrastructure](#) (3)

[Backup](#), [Mail](#), [Management](#), [Security](#)



#### [Front office](#) (13)

[Help desk](#), [Survey solutions](#)



#### [Back office](#) (7)

[Accounting and Financial](#), [Asset management](#), [Billing](#), [Customer relationship management](#), [Enterprise resource planning](#), [Knowledge management](#)



# Storefront

- Decide which applications you want to resell
  - Providers: list resold applications in the license key
  - Hosters: limit the list of apps available to customers in the service plans
- Register your own Storefront with Parallels
  - <http://www.parallels.com/products/plesk/storefront/>

Parallels Plesk Panel

Logged in as **Administrator**  
Webpace plesk-10-power.demo.parallels.com

Log out Help

Home Users Mail Websites & Domains **Applications** Statistics Server Webspaces

### Applications

**Featured Applications**  
View and install most recommended and popular apps on your websites.

**All Available Applications**  
View and install free and commercial apps on your websites. Apps packaged in APS format only require several clicks to be installed on your websites.

**Manage Installed Applications**  
Manage applications installed on

**Keepit Online Backup**  
Simple, safe and automatic online backup.

**Buy now** **Learn more**

**MagicSpam**  
Remove spam and junk mail before it gets in your inbox.

**Buy now** **Learn more**

**Norton Internet Security**  
The fastest virus, spyware and internet protection you can buy

**Buy now** **Learn more**

**SSL Certificate**  
Secure your site with a commercial SSL product from GeoTrust or Comodo

**Buy now** **Learn more**

# Storefront

- or
  - Install your own version of application catalog
    - Include your own applications
    - Manage the list of promoted applications
  - Redirect users to your own store
    - “Buy Now” button appears on all apps listed in the Catalog as commercial, and can be redirected to your store

# Switch to Parallels Plesk Panel 10

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# Moving to Plesk 10

- Switching to multi-domain webspaces
- Admin can freely create webspaces
- Customers obtain webspaces via subscriptions
- Customer can have multiple users
- A user can have access to all customer's domains or just one assigned to the user
- When upgrading to Plesk 10:
  - Each domain is converted into a separate webspace under a separate subscription;
  - Domain admins are converted into users with permissions for a particular webspace
  - Client resources are distributed between subscriptions

# Migrating from Previous Versions

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# Migration Process

- Available to Administrator only:
  - Tools & Utilities > Migration Manager
  - Optional component. May be not installed by your provider.
    - Go to Updates and add it yourself
  - Get up-to-date Migration Agents
    - Automatically from the Panel
    - Manually from
      - [http://autoinstall.plesk.com/PSA\\_10.4.4/pmm\\_agents/unix-agents.zip](http://autoinstall.plesk.com/PSA_10.4.4/pmm_agents/unix-agents.zip)
      - [http://autoinstall-win.pp.parallels.com/PANEL-WIN\\_10.4.4/pmm\\_agents/win-agents.zip](http://autoinstall-win.pp.parallels.com/PANEL-WIN_10.4.4/pmm_agents/win-agents.zip)
      - [http://autoinstall-win.pp.parallels.com/PANEL-WIN\\_10.4.4/dist-msi-Microsoft-2003-i386/plesk-migration-agent.msi](http://autoinstall-win.pp.parallels.com/PANEL-WIN_10.4.4/dist-msi-Microsoft-2003-i386/plesk-migration-agent.msi)
- Provide root credentials for the source host
  - MM detects remote environment
  - Uploads required
  - Collects data about hosting objects
- Select objects to be migrated
- Development licenses:
  - <http://www.parallels.com/ptn/download/plesk/>

# Migration Process (continued)

- Provide IP mapping between source and destination hosts
- Adjust conflict resolution rules
- Run migration
- Investigate resulting log, fix issues if needed and repeat the upload process
  - pmmcli.log and migration-handler.log  
Located at  
/usr/local/psa/PMM/logs
  - migration.log - contains information about restore process –  
Located at  
/usr/local/psa/PMM/rsessions/<last\_rsession\_directory\_by\_date>
- Find more in **Migration Guide** located at  
<http://www.parallels.com/products/plesk/documentation>

Questions?

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Thank You

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