

Getting to Know Munkireport 6

precursor.ca/slides



Precursor Systems

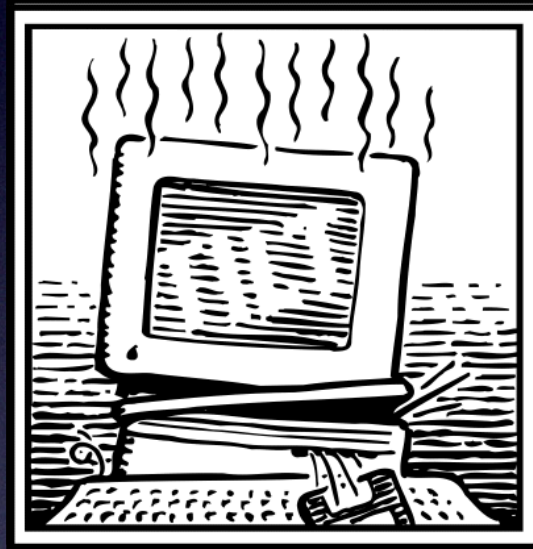


EST'd 1994

precursor.ca/slides



Precursor Systems

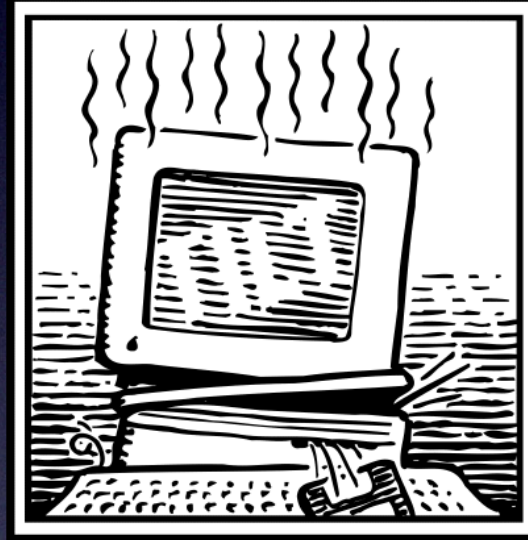


EST'd 1994

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Precursor Systems



EST'd 1994

precursor.ca/slides



Precursor Systems



EST'd 1994

precursor.ca/slides



“Alex Narvey is the original Mac MSP”

- Allen Hancock

precursor.ca/slides



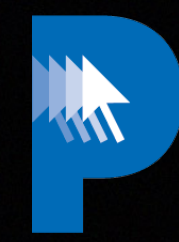
Mac Dev Ops

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Mac *mini* Dev Ops

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munkireport

Today

munkireport

The Future

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2011



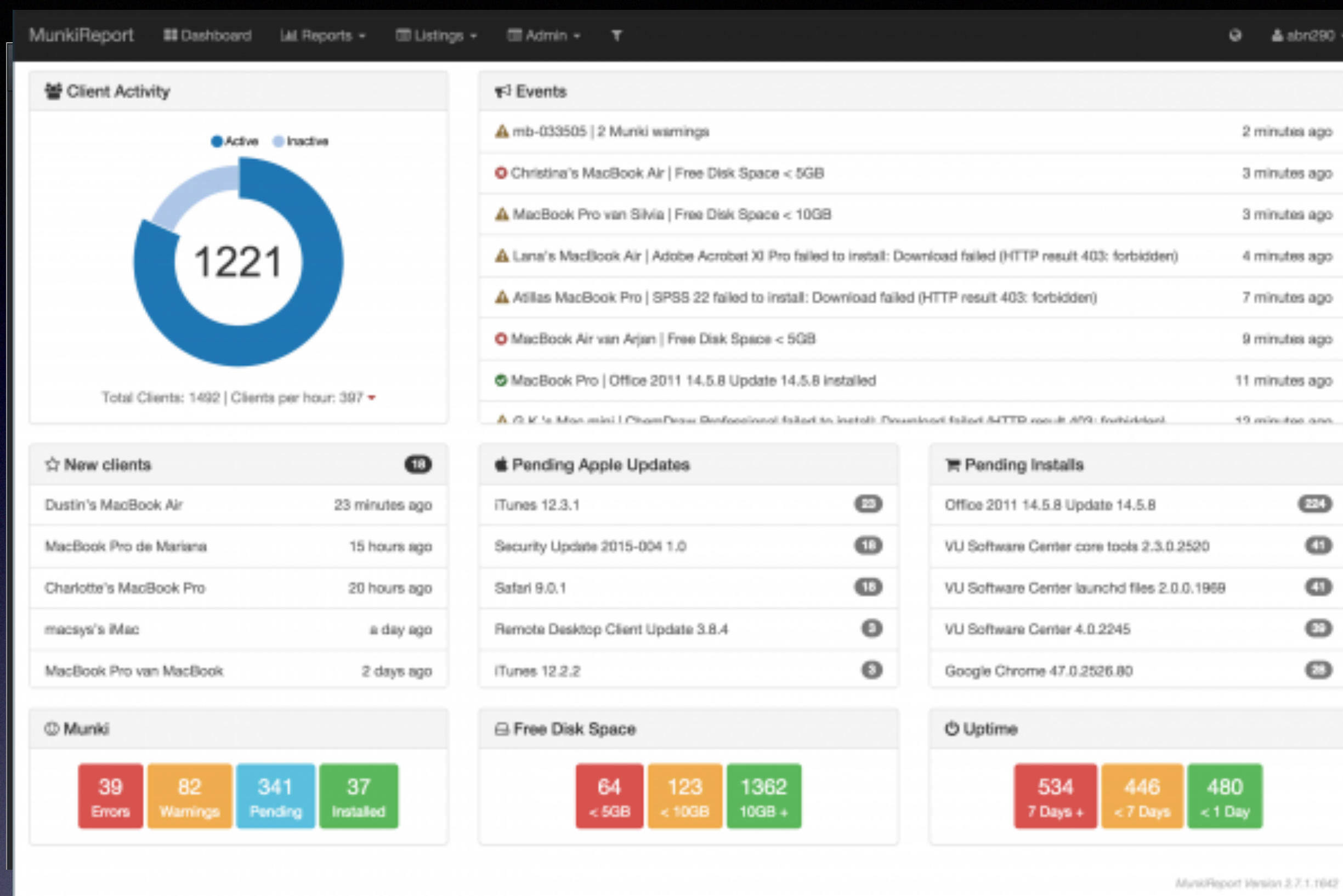
Arjen van Bochoven

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- 1) Collect Data from Clients using Python and shell scripts**
- 2) Send data periodically to a database stored in a web server**
- 3) Show the data in web page**

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v.2.7.1 (Circa 2015)

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MunkiReport Dashboard

Client Activity: 5382 (Total Clients: 6553 | Clients per hour: 1588)

Events:

- parinaz | 2 Munki warnings (2 minutes ago)
- MacBook Pro van Farzanah | 2 Munki warnings (3 minutes ago)
- Raoul Eireiners MacBook Air | 2 Munki warnings (3 minutes ago)
- MacBook Air van Anniek | Munki warning: Download of ATLAS.ti.license failed: HTTP result 403: forbidden (4 minutes ago)
- MacBook Air van Jeyam | Munki error: Could not retrieve managed install primary manifest. (4 minutes ago)
- Floris's MacBook Air | Munki warning: Download of ATLAS.ti.license failed: HTTP result 403: forbidden (4 minutes ago)
- MacBook Air van Desiree | Munki warning: Download of endnote_x8_license failed: HTTP result 403: forbidden (5 minutes ago)

New Clients (31):

- Yash's MacBook Pro (an hour ago)
- MacBook Air van Titia (an hour ago)
- Niels's MacBook Pro (3 hours ago)
- Zhaoxin's MacBook Pro (4 hours ago)
- MacBook Pro van Max (18 hours ago)

Pending Apple Updates:

- Security Update 2018-005 10.12.6 (8)
- Safari 12.0.1 (4)
- iTunes 12.8 (3)
- Security Update 2018-004 10.12.6 (2)
- Security Update 2018-004 10.11.6 (1)

Pending Installs:

- Microsoft Word for Mac 16.16.18111001 (78)
- Microsoft Excel for Mac 16.16.18111001 (49)
- Microsoft Outlook for Mac 16.16.18111001 (46)
- Google Chrome 70.0.3538.110 (44)
- Microsoft PowerPoint for Mac 16.16.18111001 (31)

Munki: 50 Errors, 250 Warnings

Free Disk Space: 411 < 5GB, 801 < 10GB, 5744 10GB +

Uptime: 3131 (7 Days +), 1849 (< 7 Days), 1573 (< 1 Day)

MunkiReport Version 3.4.0.3657

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REQUIREMENTS

A web server with PHP



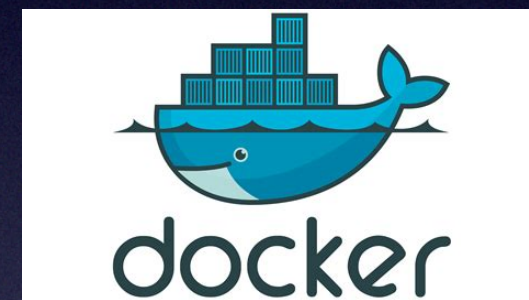
with PHP



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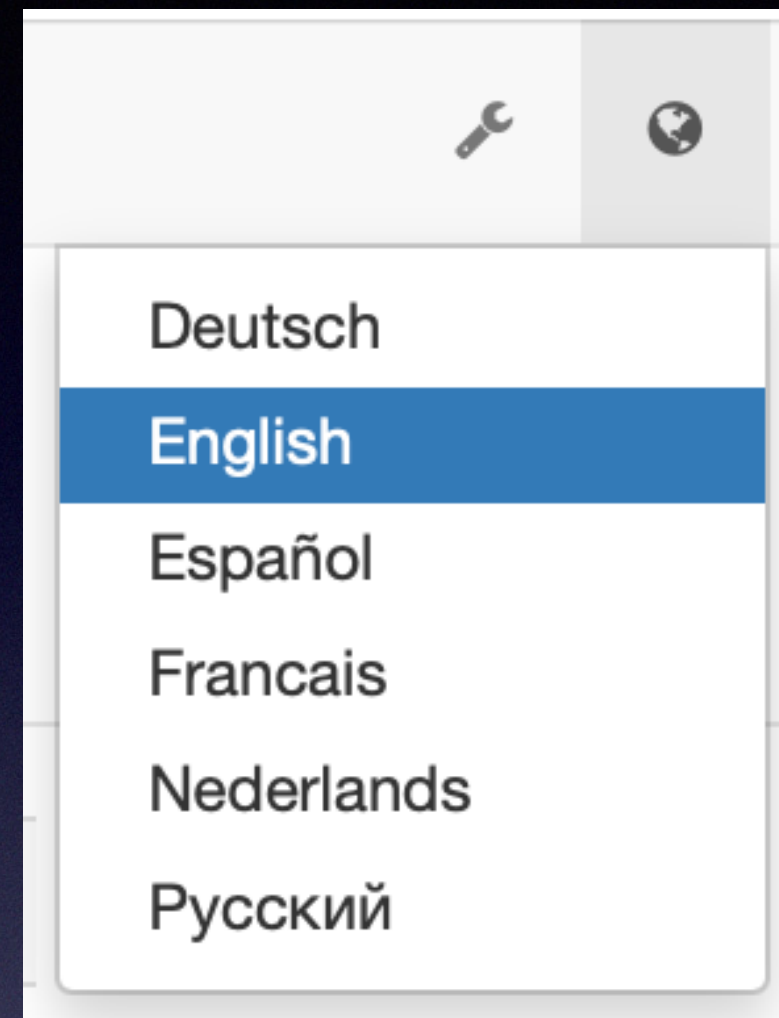
Or,



Use a prebuilt Docker Container

<https://github.com/munkireport/munkireport-php/wiki/Docker>

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Language Localization

<https://github.com/munkireport/munkireport-php/wiki/Localizing>

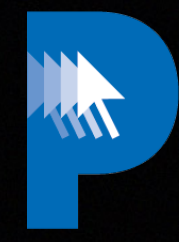
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Custom Branding

<https://www.youtube.com/watch?v=hMtTymEbJpM>

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Modules

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Building a module

Please `make:module`

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MDOYVR19 - Tuxudo – Designing and Writing Plugins for MunkiReport

<https://www.youtube.com/watch?v=tcH0Q0PKxfl&t=66s>

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Modules

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Built in Modules

Module name	Description	Comment
comment	Comment Module	module to add comments to a machine in the GUI
machine	Machine Module	collects basic facts about the machine that don't change often
reportdata	Report Data Module	collects basic facts about the machine that do change often
tag	Tag Module	module to add tags to a machine in the GUI

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Available Modules

applications appusage ard backup2go bluetooth caching certificate
crashplan detectx devtools directory_service disk_report displays_info event
extensions fan_temps filevault_escrow filevault_status findmymac firewall
firmware_escrow fonts gpu homebrew homebrew_info ibridge installhistory
inventory laps location managedinstalls mbbr_status mdm_status
munki_facts munkiinfo munkireport munkireportinfo network
network_shares power printer profile sccm_status security sentinelone
sentinelonequarantine smart_stats softwareupdate sophos supported_os
timemachine usage_stats usb users user_sessions warranty wifi

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Unofficial / Beta Modules

crowdstrike browser_extensions extension_attributes geekbench icloud
ios_devices launchdaemons jamf kernel_panics manifests memory
ms_defender ms_office nomad nudge pci snowagent system_version tcc
teamviewer time thunderbolt touch_id

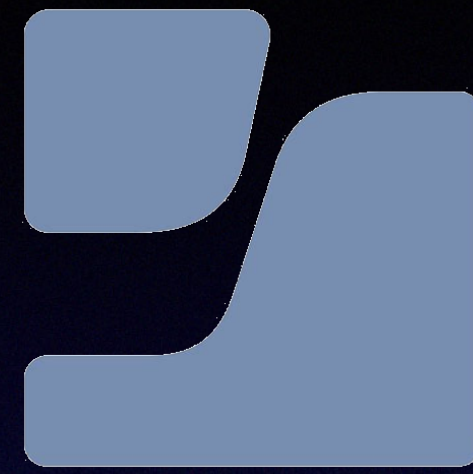
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Off Off Broadway Modules

adobe_license adoberum archiware_p5 archiware_p5_jobs arq-backup audio
backblaze bitdefender bluesky cisco_amp document_revisions ethernet
google-chrome insight_IDR kandji kaseya mosyle_business mr-micromdm
mr-osquery PunSSH tccxattr quarantined virtualbox-extensions

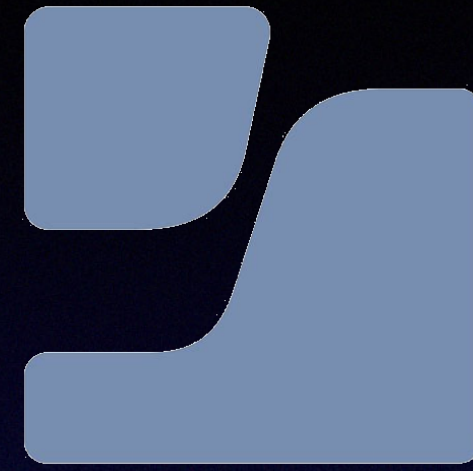
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Using MunkiReport with Jamf

<https://github.com/munkireport/munkireport-php/wiki/Using-MunkiReport-with-Jamf>

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Jamf Module

<https://github.com/tuxudo/jamf>

Jamf-Connect Module

<https://github.com/ofirgalcon/Jamf-Connect>

Jamf-Protect Module

https://github.com/jc0b/jamf_protect

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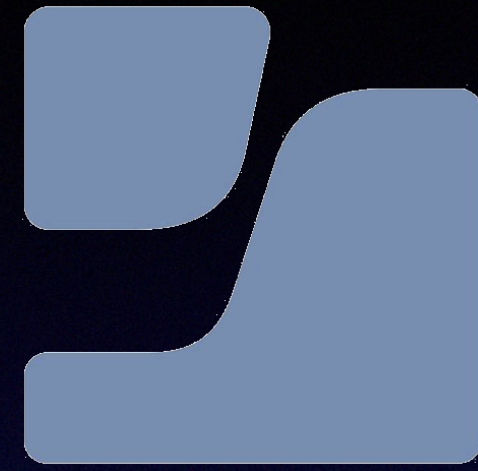


MunkiReport Dashboards Reports Listings Admin

- Enrolled via DEP
- MDM Capable
- Jamf Binary Version
- Departments
- User Approved Enrollment
- Purchased or Leased
- XProtect Definitions Version
- Buildings
- User Approved MDM
- Automatic Login Disabled
- Jamf Commands
- Last Check-in

Jamf Module <https://github.com/tuxudo/jamf>

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Jamf-Connect Module

<https://github.com/ofirgalcon/Jamf-Connect>

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MunkiReport Dashboards Reports Listings Admin

🔧 🌐 👤 [redacted] ?

📄 Password current

MunkiReport Version 5.8.0.4284

MunkiReport Dashboards Reports **Listings** Admin

🔧 🌐 👤 [redacted] ?

Jamf Connect

10 records per page Search

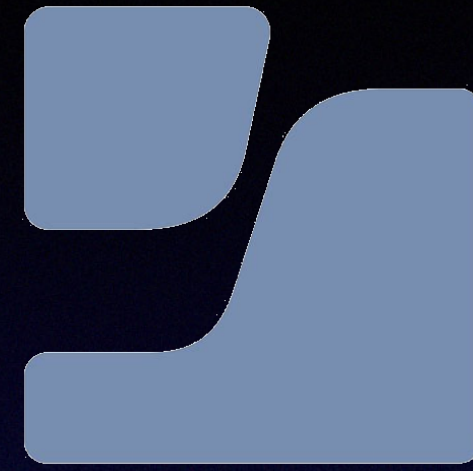
Edit Copy Excel CSV Print

Name	Serial Number	Display name	Password current	Password last changed	First name	Last name	Login	Time zone	Last sign in
Loading data from server									

MunkiReport Version 5.8.0.4284

Jamf-Connect Module <https://github.com/ofirgalcon/Jamf-Connect>

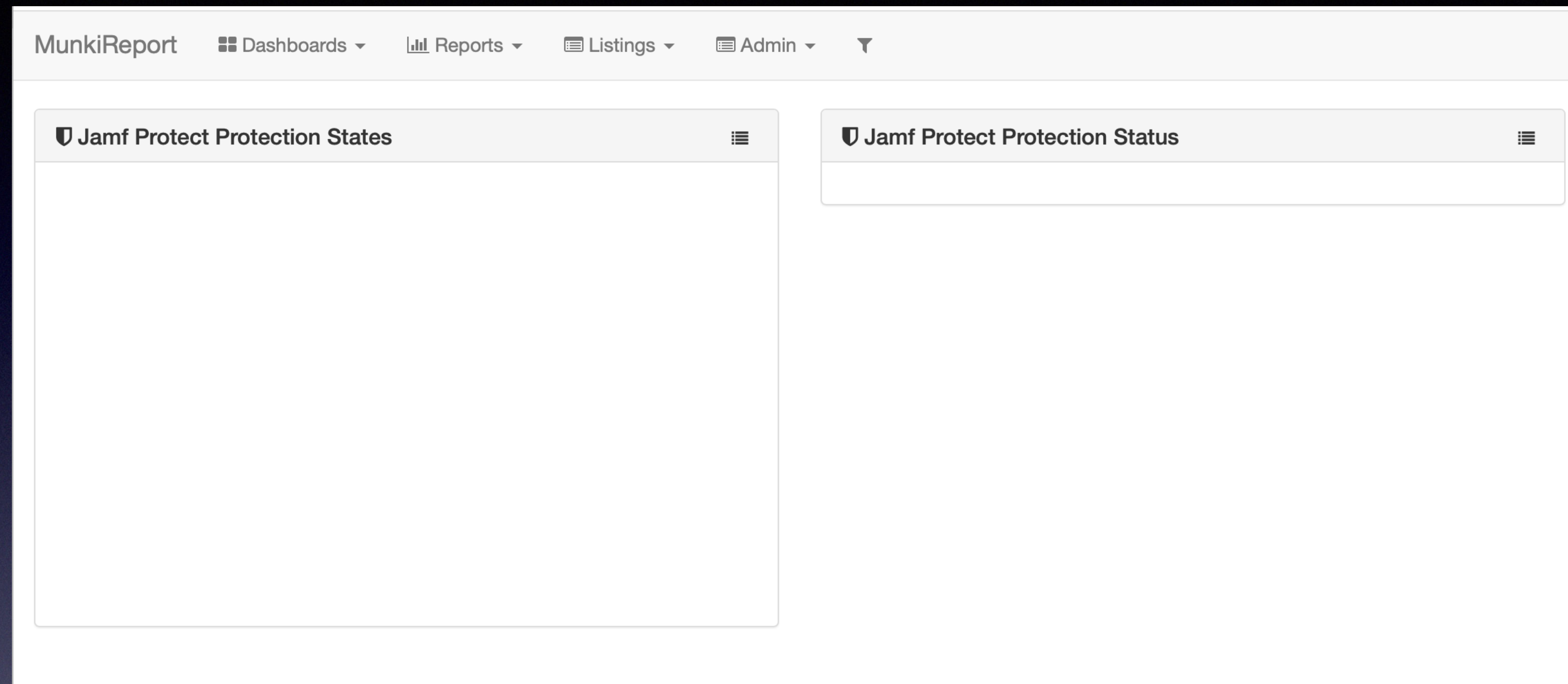
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Jamf-Protect Module

https://github.com/jc0b/jamf_protect

precursor.ca/slides



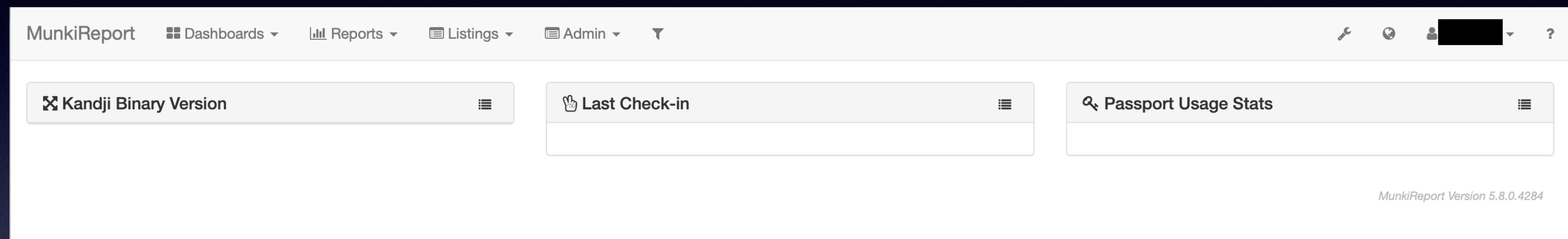
Jamf-Protect Module https://github.com/jc0b/jamf_protect

precursor.ca/slides



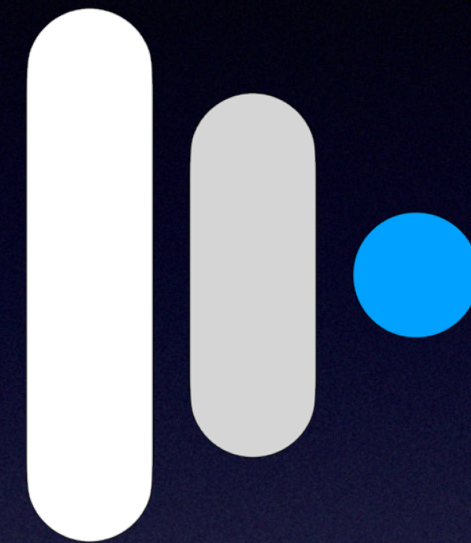
Kandji Module <https://github.com/jc0b/kandji>

precursor.ca/slides



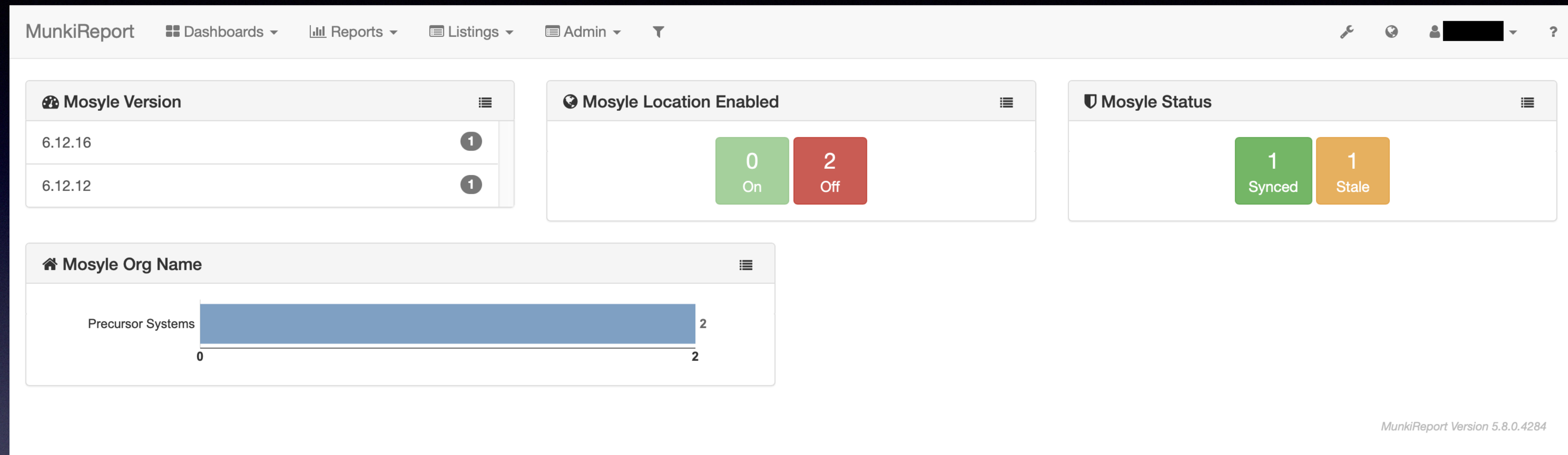
Kandji Module <https://github.com/jc0b/kandji>

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Mosyle_Business Module https://github.com/precursorca/mosyle_business

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Mosyle_Business Module https://github.com/precursorca/mosyle_business

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Sentinelone Module

<https://github.com/munkireport/sentinelone>

Sentinelone Quarantine Module

<https://github.com/munkireport/sentinelonequarantine>

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MunkiReport Dashboards Reports Listings Admin

Agent Running

Not Running Running

Active Threats

Threats Present No Active Threats

Enforcing Security

Not Enforced Enforced

Self Protection

Disabled Enabled

Agent Version

No Version

Management URL

No URL

Sentinelone Module <https://github.com/munkireport/sentinelone>

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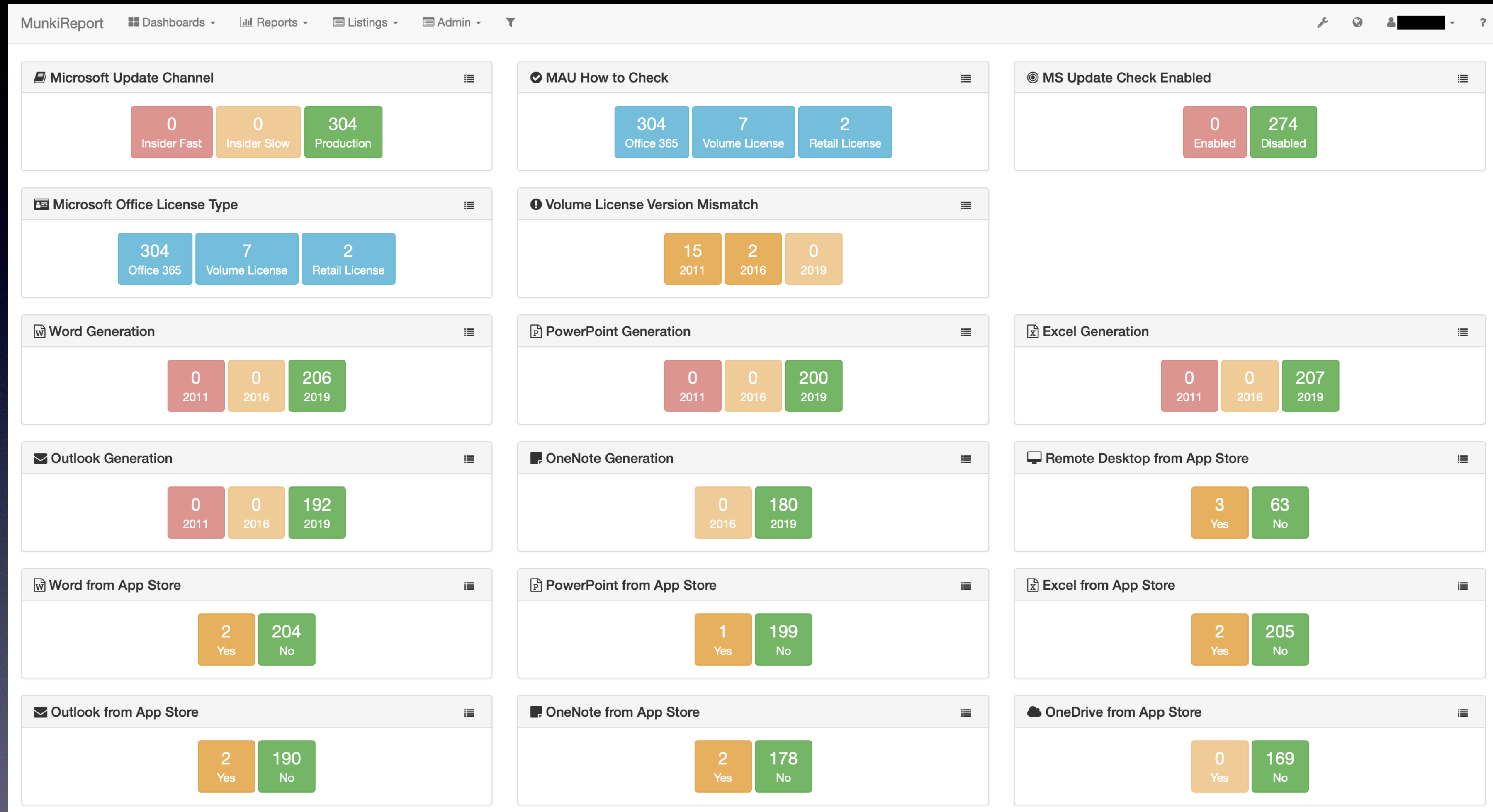


MS_Office Module https://github.com/tuxudo/ms_office

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Office



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MS_Defender Module https://github.com/tuxudo/ms_defender

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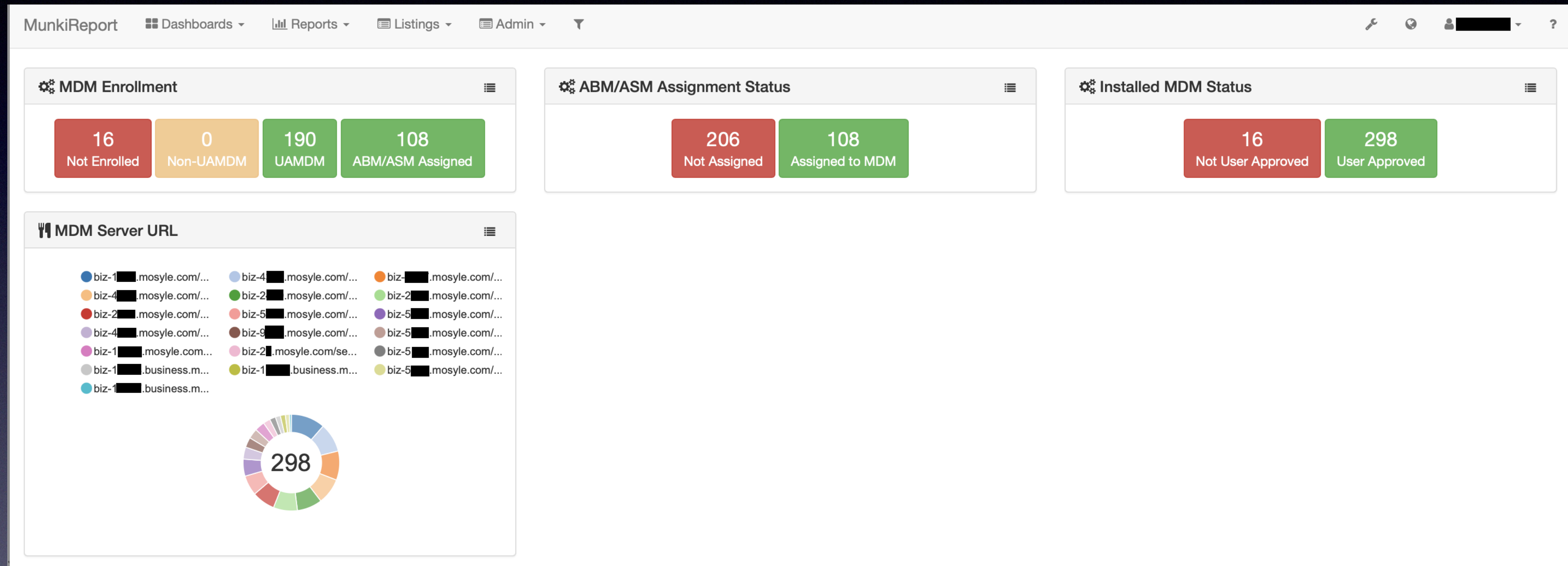


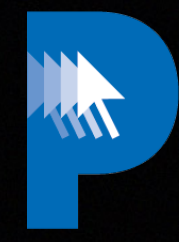
DetectX Module <https://github.com/munkireport/detectx>

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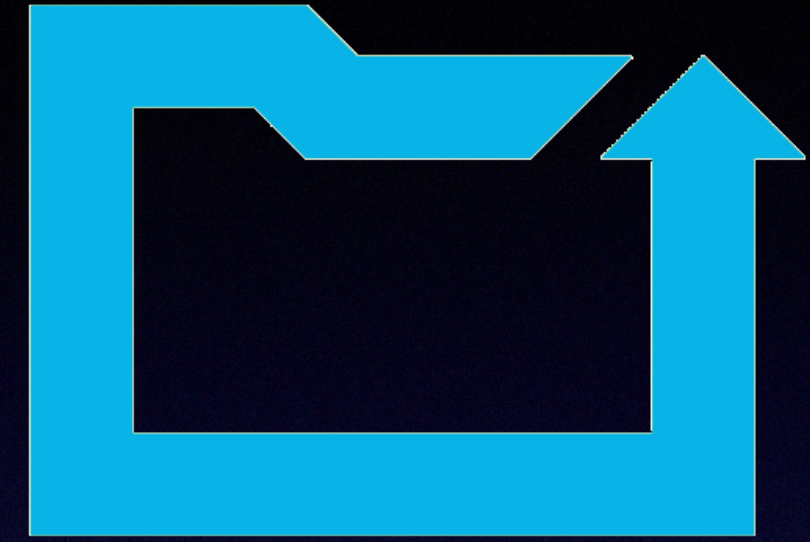


MDM





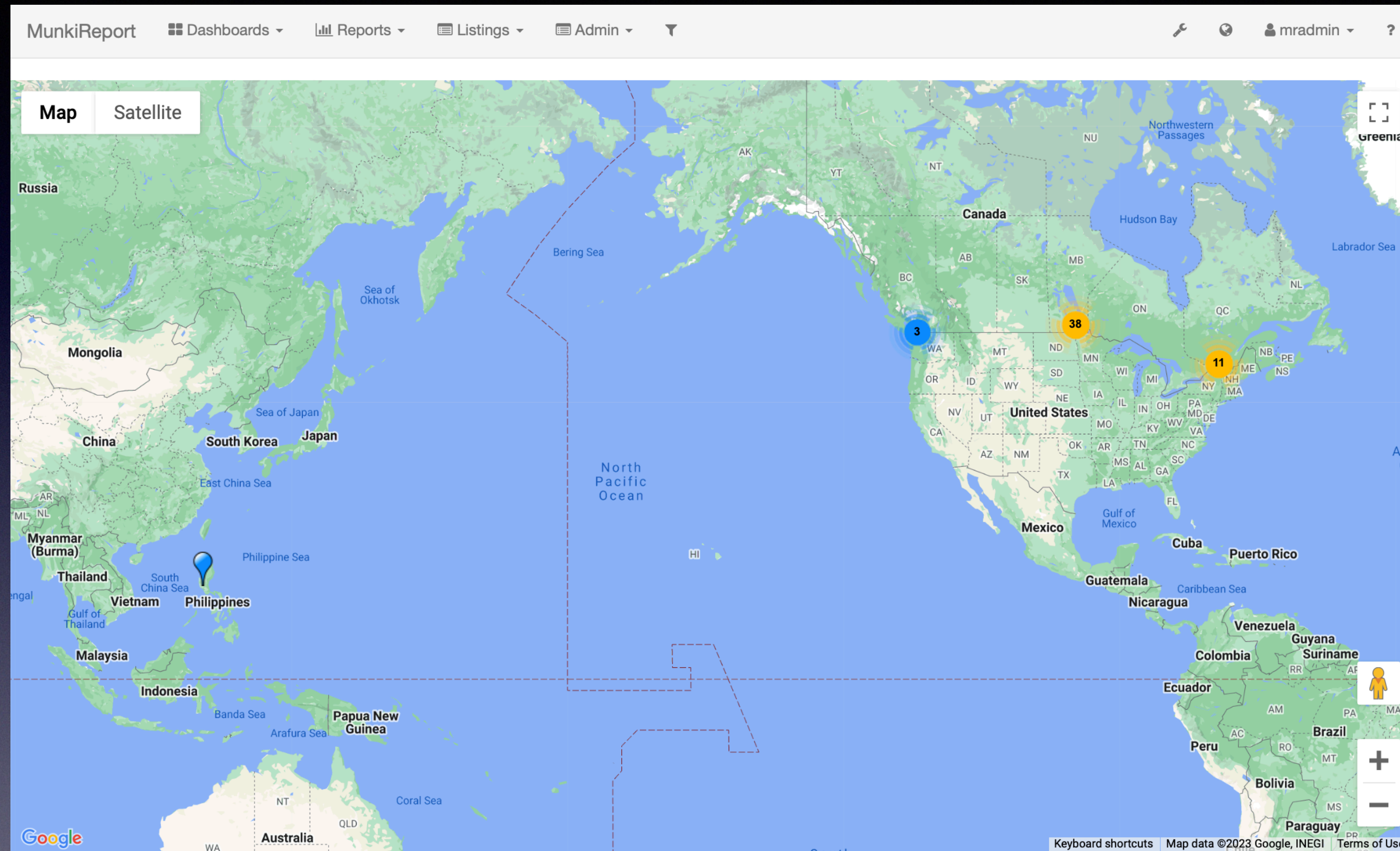
Backup



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Location



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Location Detail

MunkiReport ☰ Dashboards ▾ 📊 Reports ▾ 📄 Listings ▾ 👤 Admin ▾ 🔧 🌐 👤 [REDACTED] ▾ ?

Show ☰ PSMBPro13 🗑️ Archive 👤 Remote Control

Location

Current Status	Successful
Stale Location	No
Address	[REDACTED] St, Winnipeg, MB [REDACTED], Canada
Coordinates	49.8 [REDACTED], -97.1 [REDACTED]
Altitude	0m
Last Run	an hour ago
Last Location Run	an hour ago
Latitude Accuracy	16m
Longitude Accuracy	16m

Google Keyboard shortcuts Map data ©2023 Google Terms of Use Report a map error



Location Legal

Legal Notice

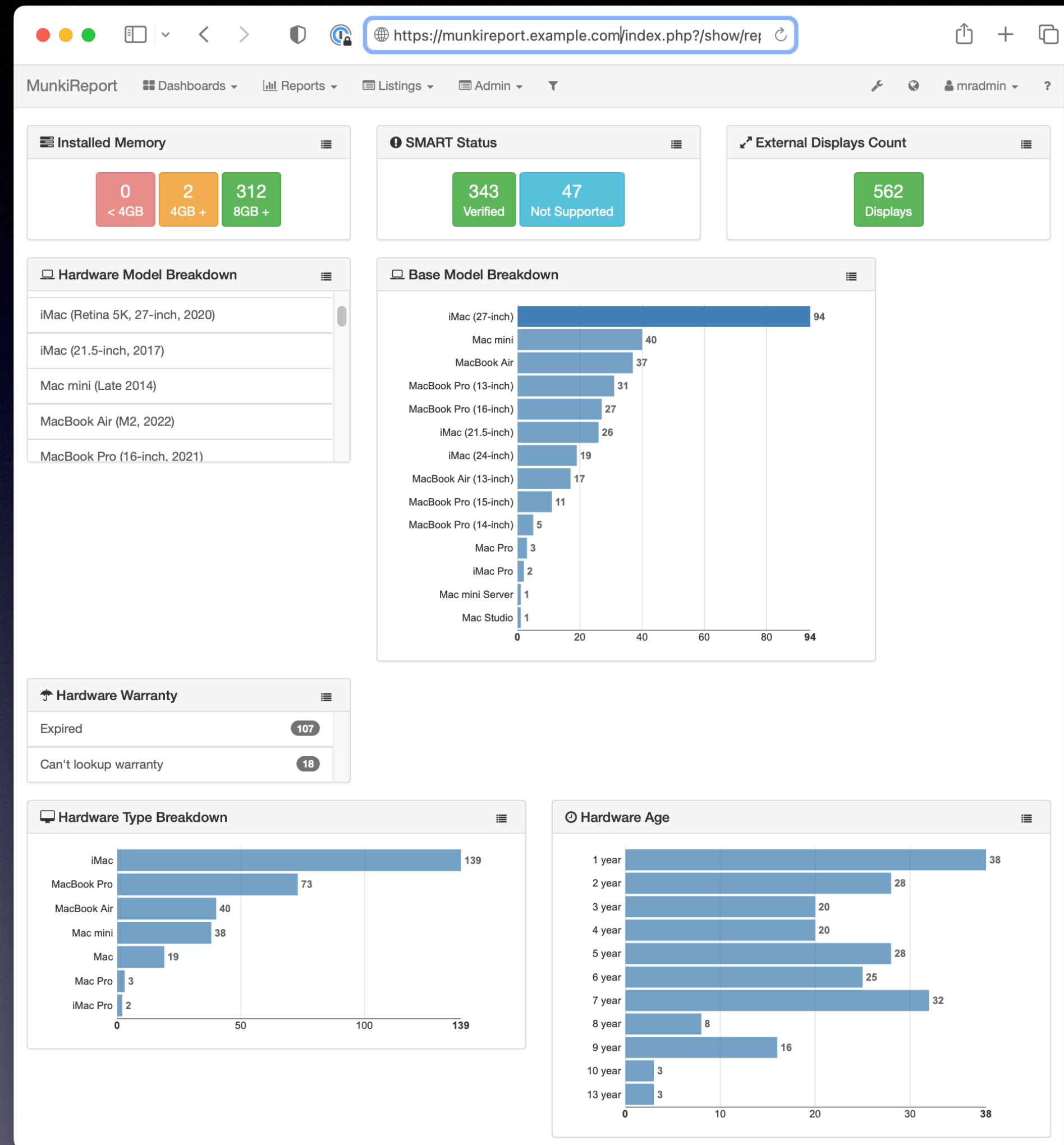
pinpoint should only be installed on devices that you have authorization to do so on. Data collected from this project is directly uploaded to Google, Inc. via Geocoding APIs for in order to locate your Mac.

Usage of this project for illegal or immoral activities is deeply frowned upon. These activities could have consequences including fines and jail time depending on your location. I in no way endorse the usage of this project for these acts.

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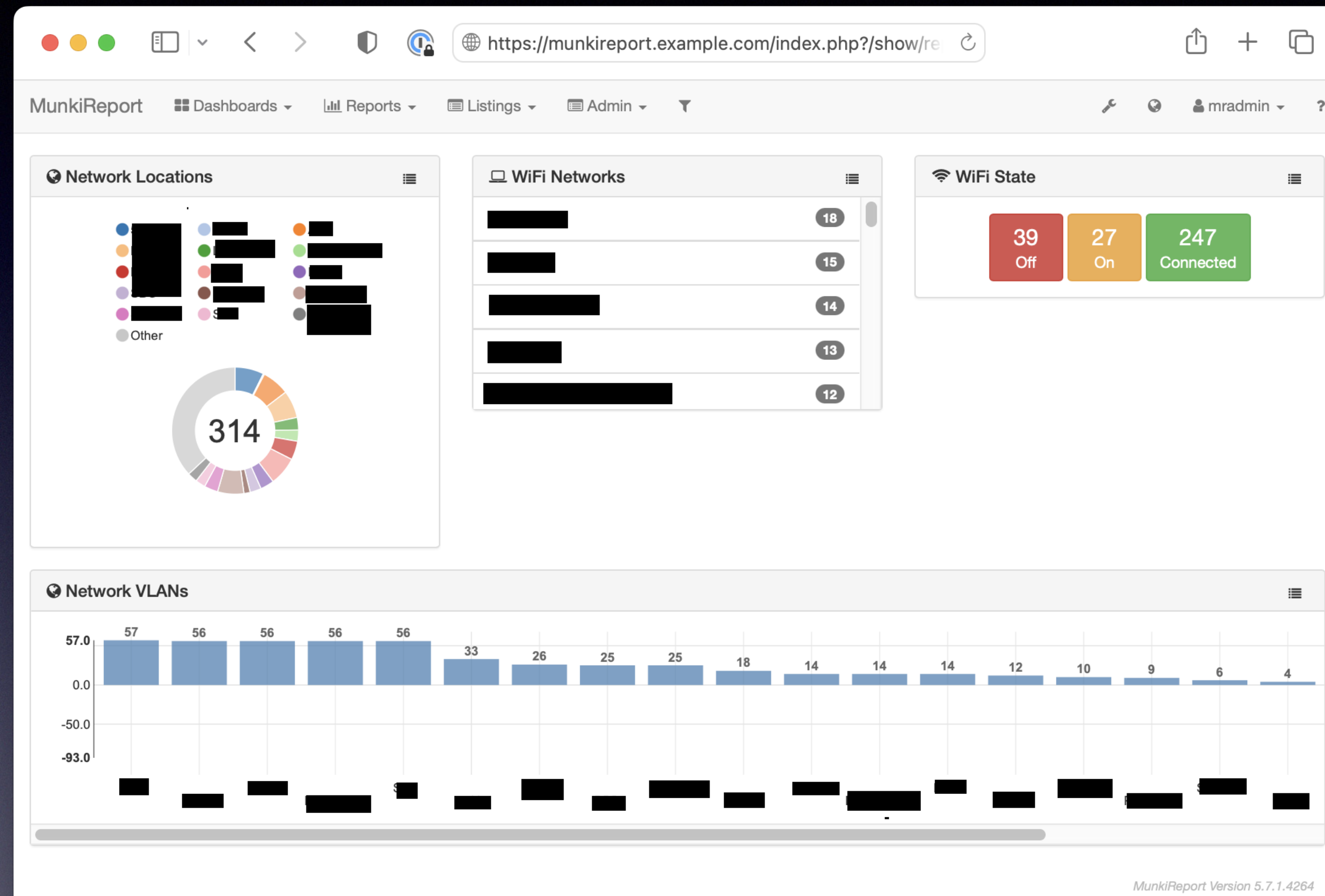
Hardware Report



precursor.ca/slides



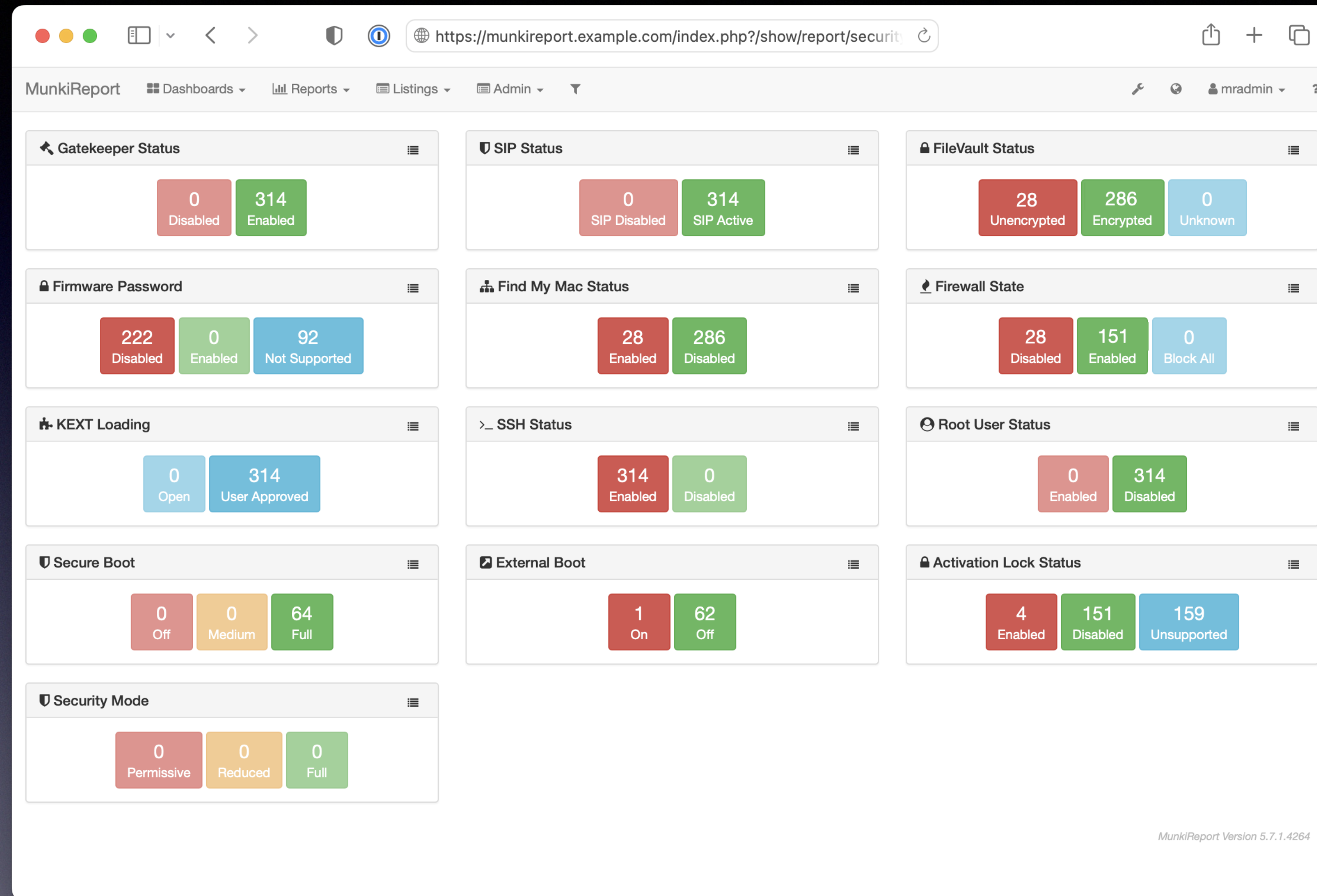
Network Report



precursor.ca/slides

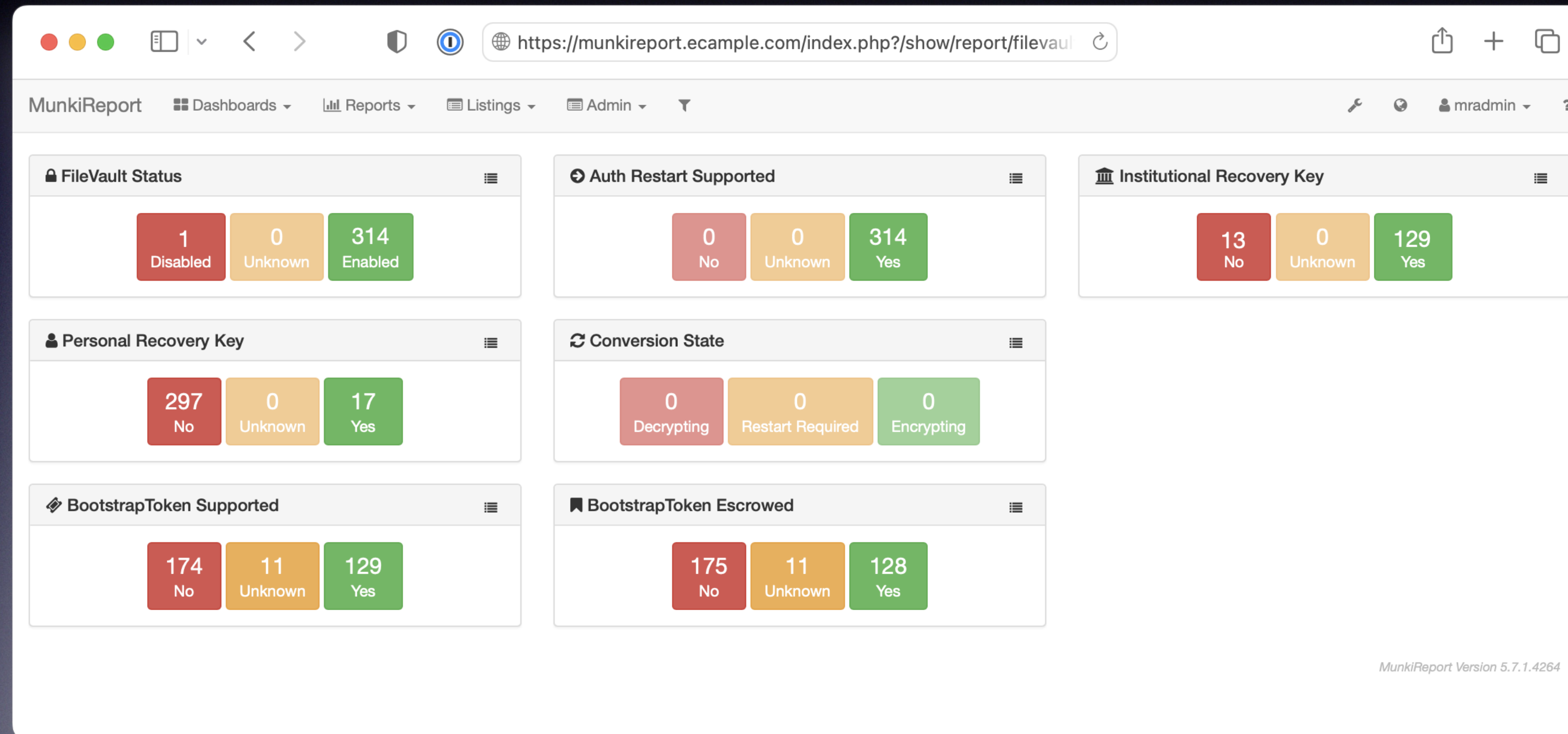


Security Report





FileVault Report



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Managed Software Report

The screenshot displays the MunkiReport web interface with the following sections:

- Munki:** 0 Errors, 8 Warnings
- Munki Versions:** Unknown (2), 6.3.1.4580 (263), 6.3.0.4556 (20), 6.2.1.4545 (12), 6.2.0.4541 (1)
- Munki Protocol:** 0 HTTP, 312 HTTPS, 0 Local Repo
- Clients with failing installs:** MacBook Air (5), MacBook Air (2), MacBook Pro (2) (1), [Redacted] (1)
- Clients With Pending Installs:** [Redacted] (21), MacBook Air (6), MacBook Air (5), MacBook Pro (4), iMac 24 (4)
- Manifests:** [Redacted] (27), [Redacted] (4), [Redacted] (32), [Redacted] (24), [Redacted] (2)
- Pending Installs:** Microsoft Outlook 16.72.23043001 (46), Slack 4.32.122 (23), Zoom 5.14.6.17822 (15), Microsoft Excel 16.72.23040900 (12), Mozilla Firefox 112.0.2 (11)
- Pending Apple Updates:** Safari 16.4.1 (4), macOS Monterey 12.6.5 12.6.5 (4), macOS Security Response 13.3.1 (a) 13.3.1 (a) (1)
- Munki Errors:** Could not retrieve managed install primary manifest.: (-1001, 'The request timed out.') (1), -----installer: Error - This software requires macOS version 10.15.0 or later.installer: Error - (1)
- Munki Warnings:** Will not attempt to remove venturablocker because some version of it is in the list of managed installs, or it is required by another managed install. (5), Rejected item OpenVPNConnectClient3, version 3.4.2 with supported architectures: (arm64). Our architecture is x86_64.Could not process item OpenVPNConnectClient3 for update. No pkginfo found in catalogs: productionCould not (1)



Dashboards

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Custom Dashboards

mydashboard.yml

```
display_name: My Awesome Dashboard
hotkey: q
row1:
  client:
  messages:
row2:
  new_clients:
  pending_apple:
  pending_munki:
row3:
  munki:
  disk_report:
  uptime:
```

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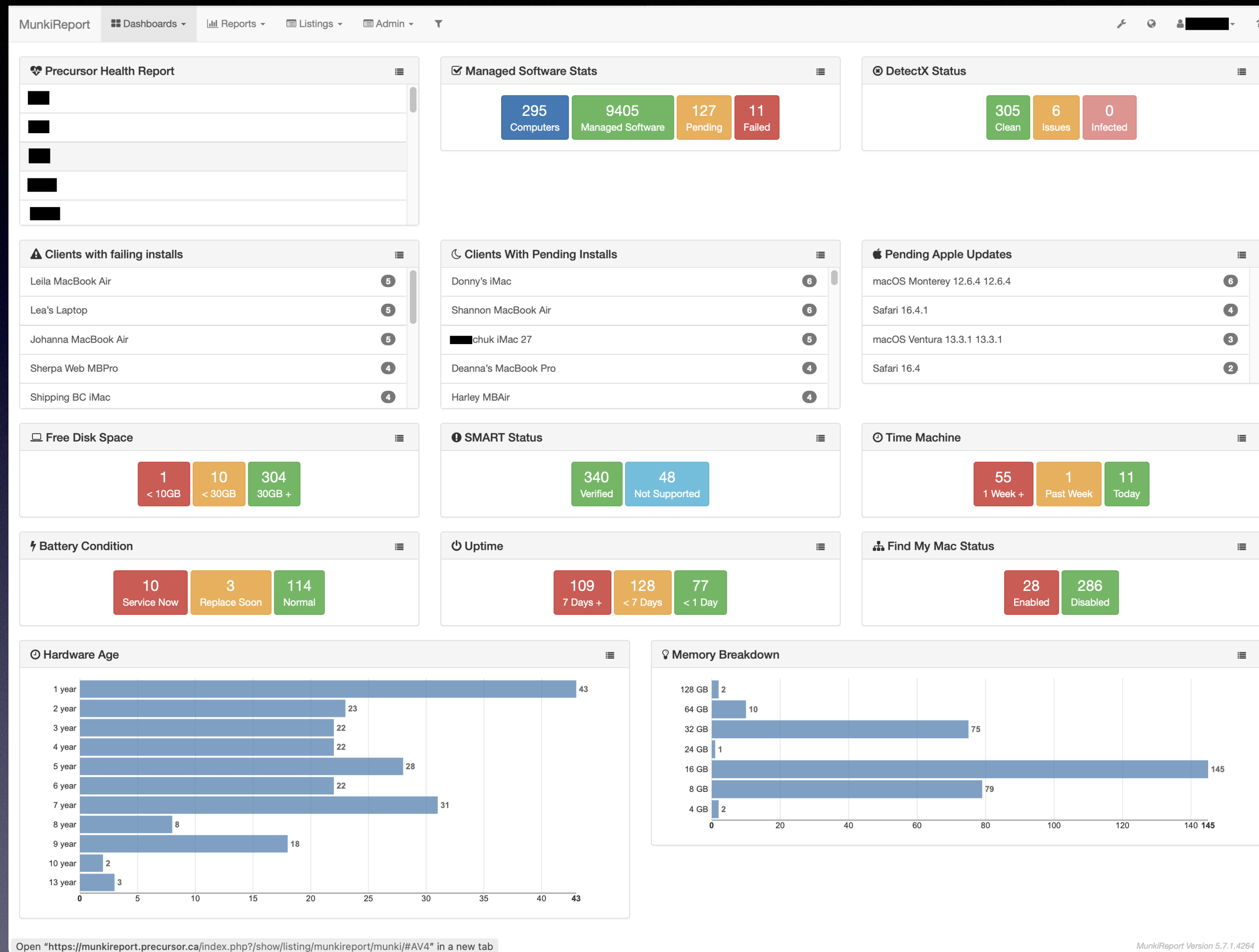
Custom Dashboards

MunkiReport		☰ Dashboards ▾	📊 Reports ▾	📄 Listings ▾	👤 Admin ▾	⌵
Dashboard	D					
Hardware Replacment	R					
KevinCox Default	K					
Adobe Software Dashboard						
Apps Dashboard	A					
CAD Software Dashboard						
Clock Dashboard	C					
Communications Software Dashboard						
Customizations Dashboard	5					
Database Software Dashboard						
Dental Dashboard						
Health Dashboard	H					
Malware Dashboard						
Microsoft Dashboard						
Munki	M					
Remote Dashboard						
Security	S					
Stats Dashboard	3					
System Dashboard	4					
Tools Dashboard	T					
Updates	U					

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Stats



precursor.ca/slides



Remote

MunkiReport Dashboards Reports Listings Admin

Splashtop SOS	
3.5.6.0	281
3.5.4.0	14
3.5.2.2	13
3.5.0.2	1
3.4.8.4	1

Splashtop Streamer	
3.5.4.0	39
3.5.2.2	3
3.4.8.4	3
3.4.6.0	1
3.4.2.0	1

connectwisecontrol-74772	
23.2	15
22.9	1

BlueSky	
314 Total	

BlueSky Version	
2.3.2	314

TeamViewer	
15.40.9	3
15.40.8	2
15.39.5	1
15.38.3	1
15.36.6	1

AnyDesk	
6.6.0	24

Remotix	
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Remotix Agent	
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Viscosity	
1.10.5	33
1.10.4	2

ARDAgent	
3.9.8	38
3.9.7	3
0.0.0.0.0	1

MunkiReport Version 5.7.1.4264



Adobe

MunkiReport Dashboards Reports Listings Admin

Product	Version	Count
Creative Cloud	5.10.0.573	94
	5.9.1.375	6
	5.9.0.373	35
	5.8.0.592	4
Adobe Bridge%	13.0.3	26
	13.0.2	7
	13.0.1	1
	12.0.4.286	7
Adobe XD%	56.1.12.1	19
	56.0.12.6	3
	55.1.12.7	1
	55.0.12.9	1
Adobe Acrobat	23.001.20093	92
	23.001.20063	1
	22.003.20314	10
	22.003.20310	3
Adobe Acrobat Reader	23.001.20093	92
	23.001.20063	49
	22.003.20314	3
	22.003.20310	3
Adobe Acrobat Reader DC	22.002.20212	1
	22.002.20191	6
	22.001.20112	5
	21.007.20099	1
Adobe Illustrator	682	1
	27.4.0	42
	27.3.1	9
	27.3.0	1
Adobe InDesign%	18.2.1.455	52
	18.1.0.51	13
	18.0.0.312	17
	17.4.1.67	12
Adobe Photoshop%	24.3.0	46
	24.2.0	7
	24.1.1	5
	24.1.0	4
Adobe Illustrator	682	1
	27.4.0	42
	27.3.1	9
	27.3.0	1
Adobe InDesign 2023	18.2.1.455	52
	18.1.0.51	13
	18.0.0.312	17
Adobe Photoshop 2023	24.3.0	46
	24.2.0	7
	24.1.1	5
	24.1.0	4
Adobe Illustrator	682	1
	27.4.0	42
	27.3.1	9
	27.3.0	1
Adobe InDesign 2022	17.4.1.67	12
	17.4.0.51	8
	17.3.0.61	5
	17.2.1.105	1
Adobe Photoshop 2022	23.5.5	3
	23.5.4	1
	23.5.2	1
	23.5.1	5
Adobe Illustrator	682	1
	27.4.0	42
	27.3.1	9
	27.3.0	1
Adobe InDesign 2021	16.4.3.166	4
	16.4.2.153	3
	16.4.0.54	6
	16.3.2.151	2
Adobe Photoshop 2021	22.5.1	2
	22.3.0	1
	22.2.0	1
	22.1.0	2

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CAD

MunkiReport Dashboards Reports Listings Admin

Software	Version	Count
Vectorworks 2023	28.0.4	3
	28.0.1	1
	28.0.0	1
Vectorworks 2022	27.0.6	10
	27.0.5	16
	27.0.4	2
Vectorworks 2021	26.0.5	19
	26.0.4	4
	26.0.2	1
Vectorworks 2020	25.0.6	16
	25.0.5	9
	25.0.1	1
Vectorworks 2019	24.0.6	14
	24.0.5	2
	24.0.3	1
Vectorworks 2017	22.0.5	18
AutoCAD LT 2023	24.2.114.24	3
AutoCAD LT 2022	24.1.52.44	1
AutoCAD LT 2021	24.0.47.224	1
	24.0.47.193	1
SketchUp	23.0	1
	22.0	24
	21.1	24
	20.2	9
	20.1	1
Rhinoceros	5.5.3	1
	5.1	2
	5.0	13
Designer	0.0.0.0.0	8
Archicad 27		
Archicad 26	26.0.0	5
ARCHICAD 25	25.0.0	5
ConsignO	3.8.3	19
	3.8.1	4
PowerCADD	9.1.11	9
	9.1.8	3
	9.1.5	3
	9.1.4	1
RICOH THETA	3.19.2	8
	3.18.0	1

MunkiReport Version 5.7.1.4264

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Dental

MunkiReport

Dashboards ▾ Reports ▾ Listings ▾ Admin ▾

MacPractice DDS

13.11.3	10
12.21.7	17
11.6.8	1

MAP2M

1.0.31	7
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topsOrtho

9.1.9	19
8.6.14	1
8.6.12	1
8.6.7	1
8.5.5	6

MAV2M

1.0	7
-----	---

topsXin

SOPIX2

1.24.1	7
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MunkiReport Version 5.7.1.4264

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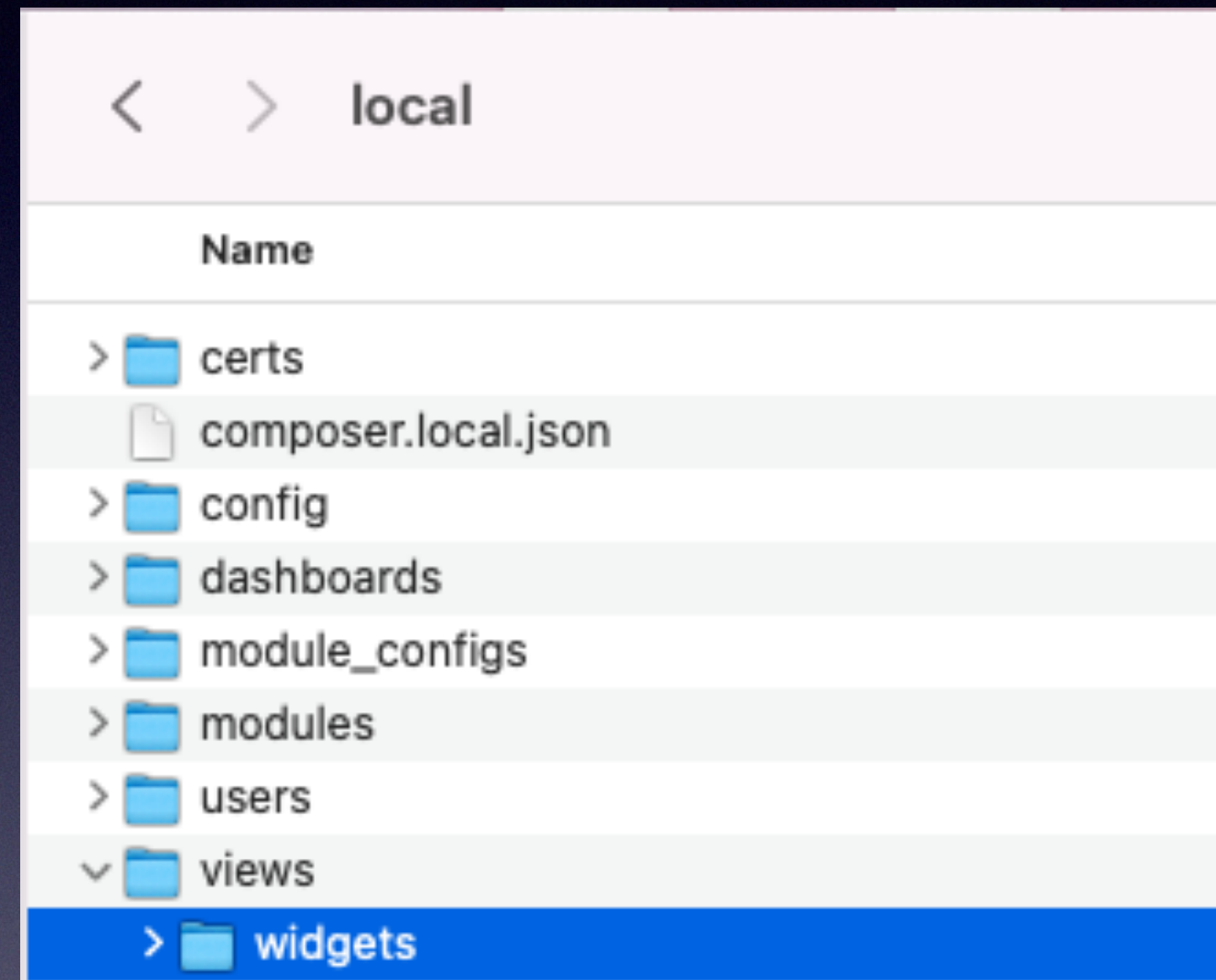


Custom Widgets

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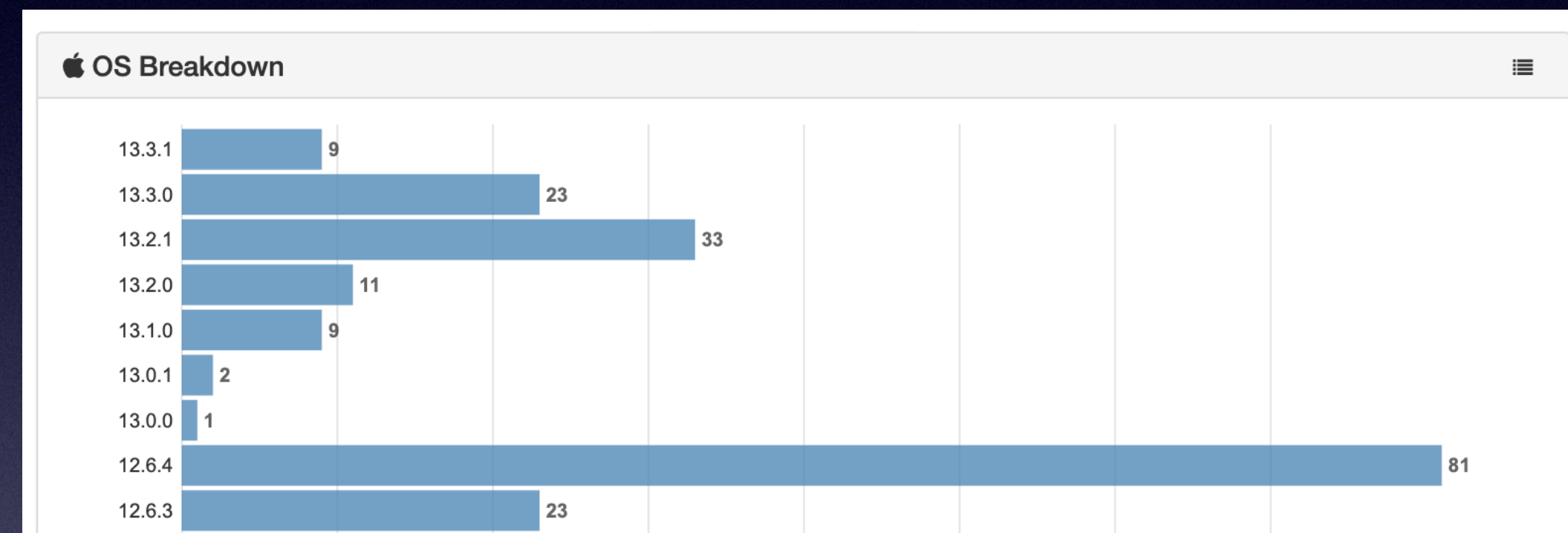
Custom Widgets



precursor.ca/slides



Custom Widgets

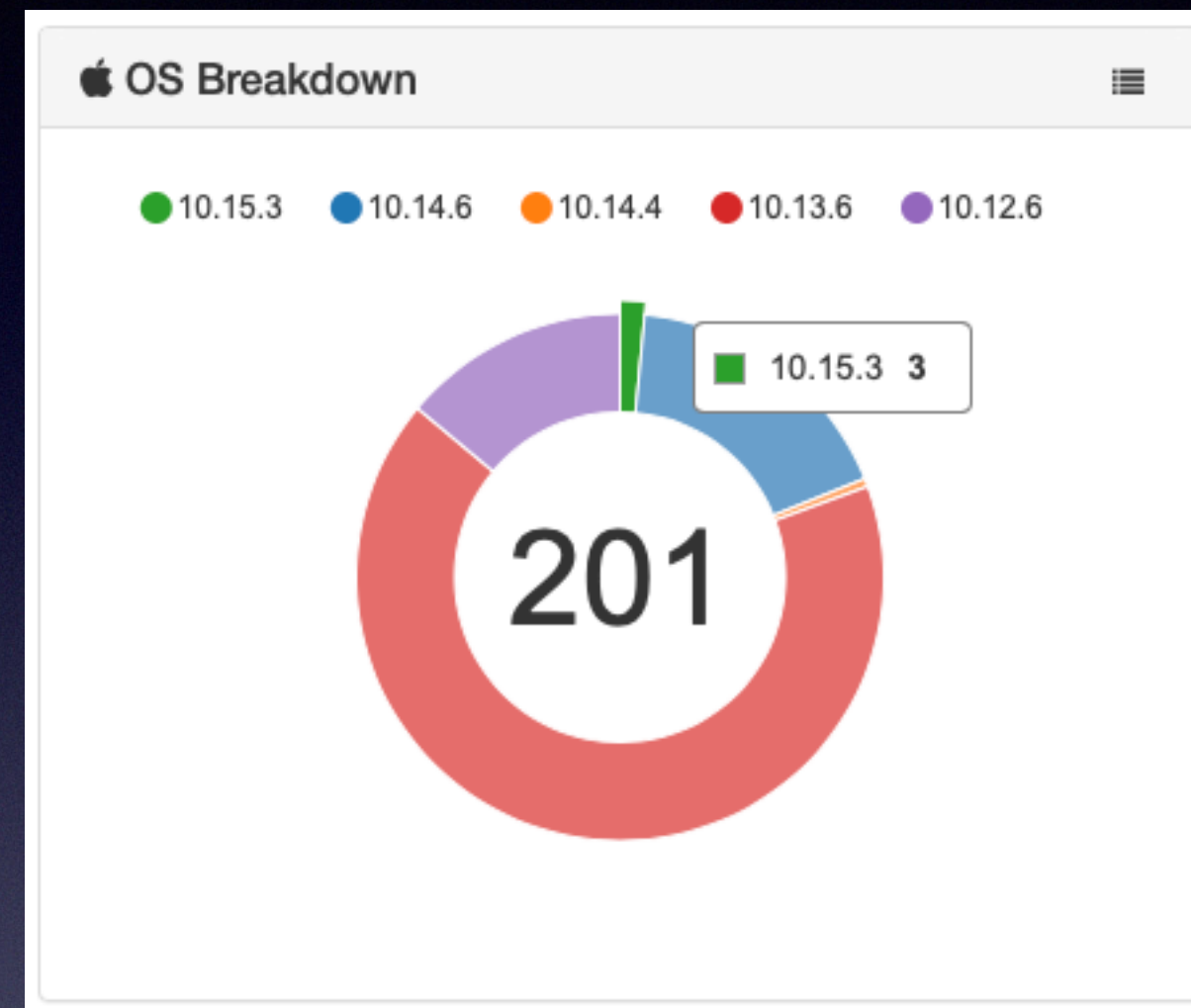


OS Breakdown Bargraph

precursor.ca/slides



Custom Widgets

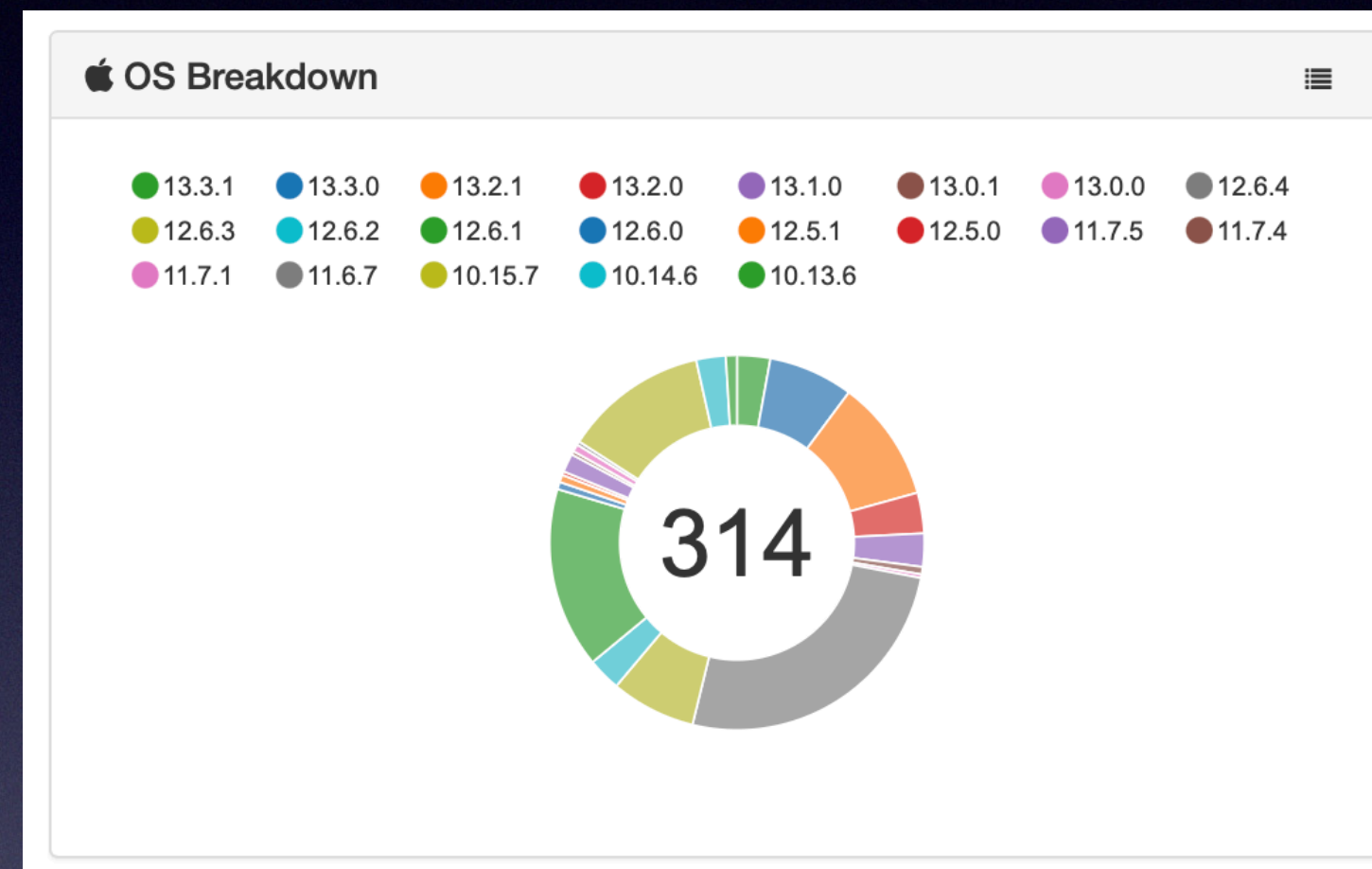


OS Donut

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Custom Widgets



https://github.com/precursorca/os_donut_widget

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API

precursor.ca/slides



API example scripts

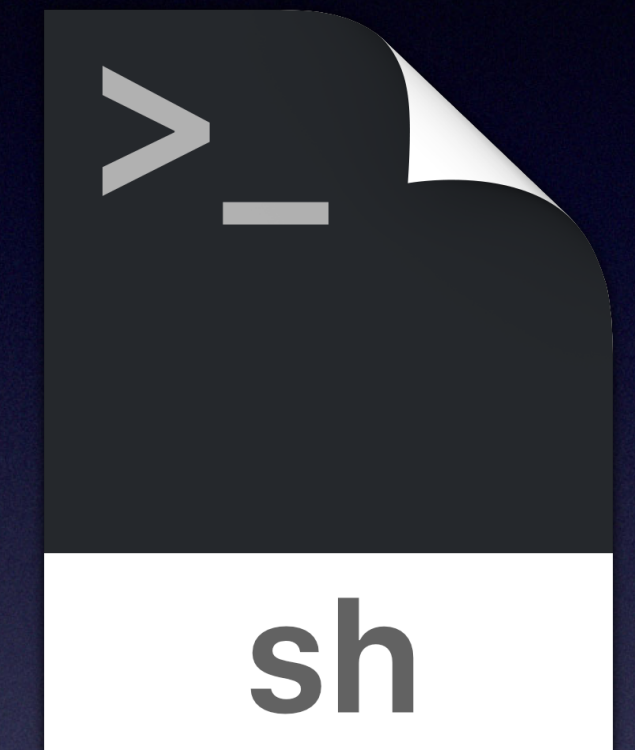
Retrieve Data:

Shell Version

Python Version

Delete Data:

Python Version



<https://github.com/munkireport/munkireport-php/wiki/API>

precursor.ca/slides



API Postman Collection



<https://github.com/joncrajin/munkireport-postman-collection>

precursor.ca/slides



API FileMaker Query Tool



<https://www.precursor.ca/mrq/>

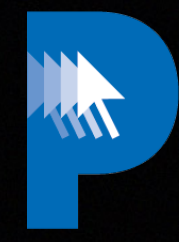
[precursor.ca/slides](https://www.precursor.ca/slides)



Munkireport v 5.8 beta

<https://github.com/tuxudo/munkireport-php/tree/mr5-python3>

precursor.ca/slides



Munkireport 6

precursor.ca/slides



2017 - Goals for Version 6

Rewrite foundation to allow new features

Modernize PHP to v.8.x

Modernize Python to v.3

Modernize Bootstrap to v.4

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Rewrite foundation to allow new features

Global Search through all tables

Event Notification to 3rd Party (e.g. Slack)

Standards Compliant API

Modern Authentication Built-in

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Modernize Python

macOS 12.3 removed Python 2.7

Phase 1

@magervalp

`MunkiReport-Python2 v2.7.18`

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Modernize Python

IT Security Depts asking to remove Python 2

Phase 2 @tuxudo upgraded all modules using Python

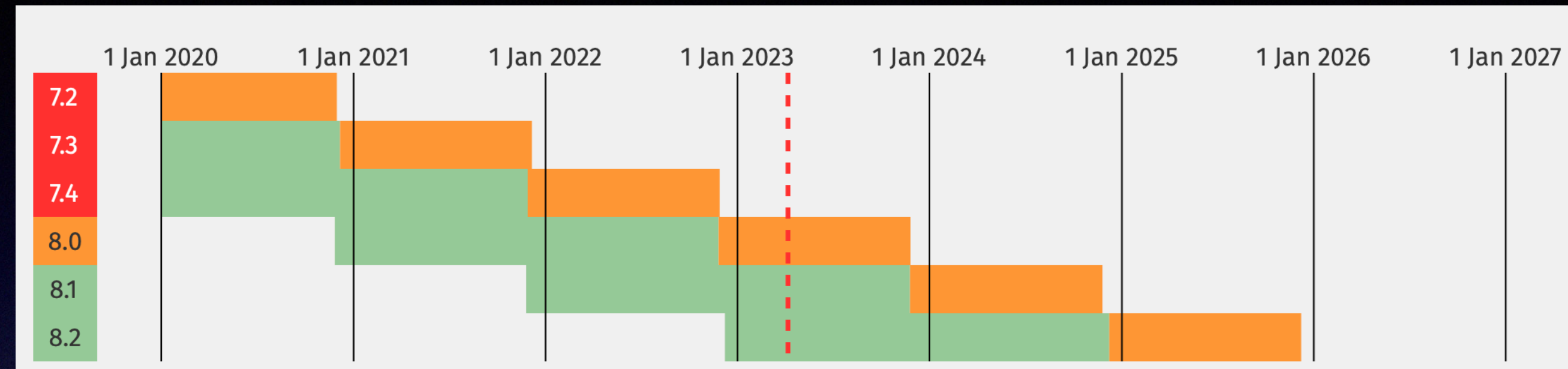
Munkireport v.5.8 uses Python 3

`https://github.com/MagerValp/MunkiReport-Python/releases`

`precursor.ca/slides`



Modernize PHP



Phase 3

PHP 7 support/security expired Nov/22

Munkireport v.5.8.0 tested up to PHP 8.2

precursor.ca/slides



2023 - Goals for Version 6

Rewrite foundation to allow new features

~~**Modernize PHP to v.8.x for security**~~

~~**Modernize Python to v.3 for security**~~

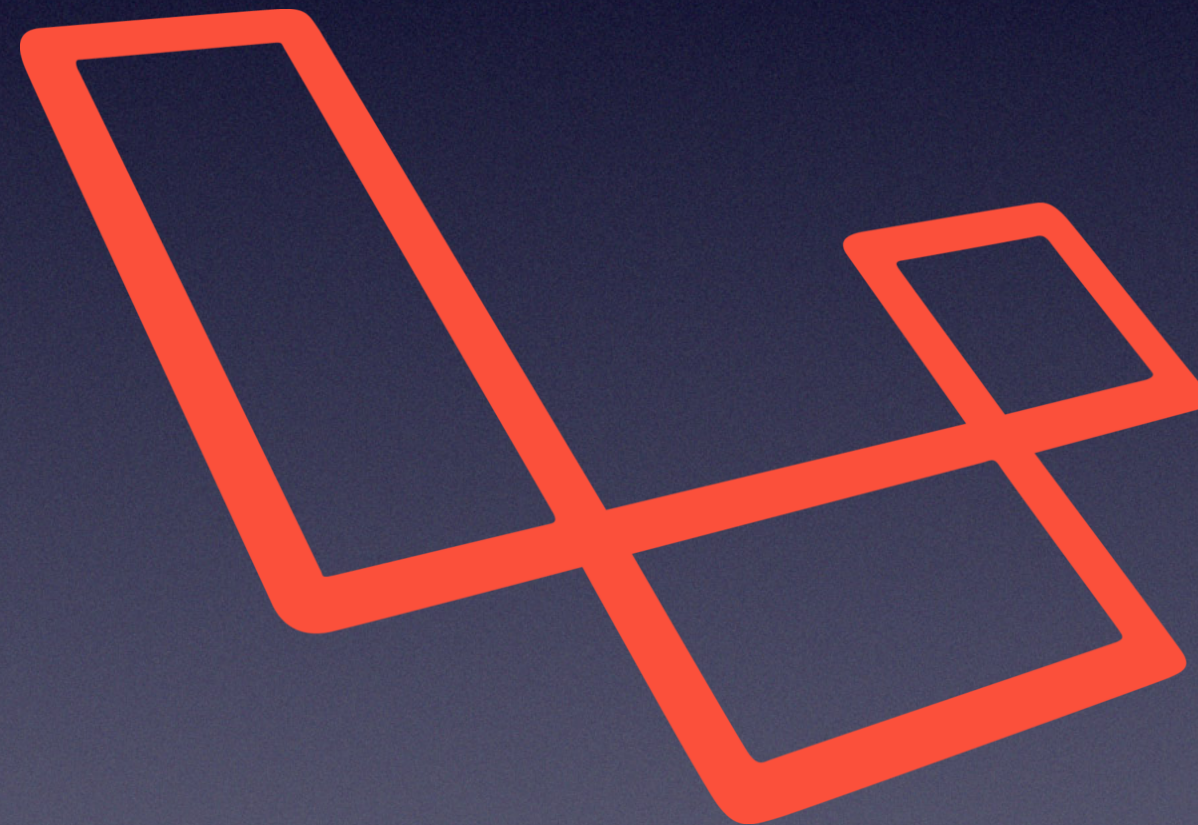
precursor.ca/slides



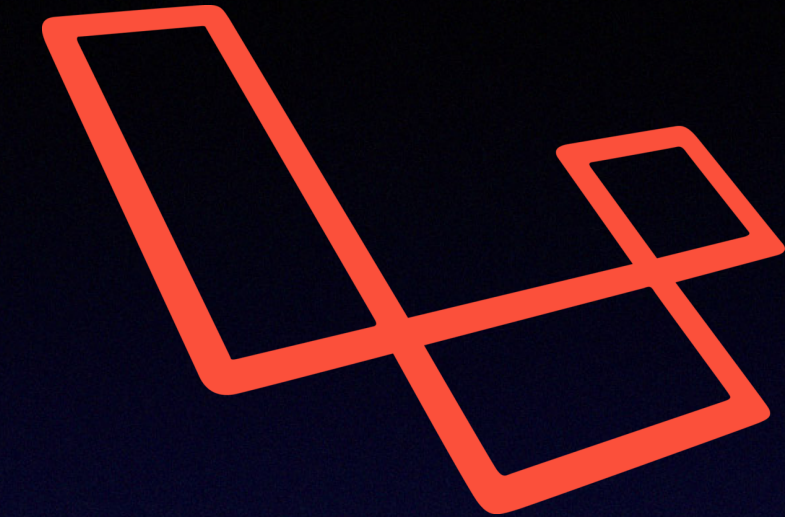
2017 - Goals for Version 6

Replace foundation (based on KissMVC 2008)

With Laravel:



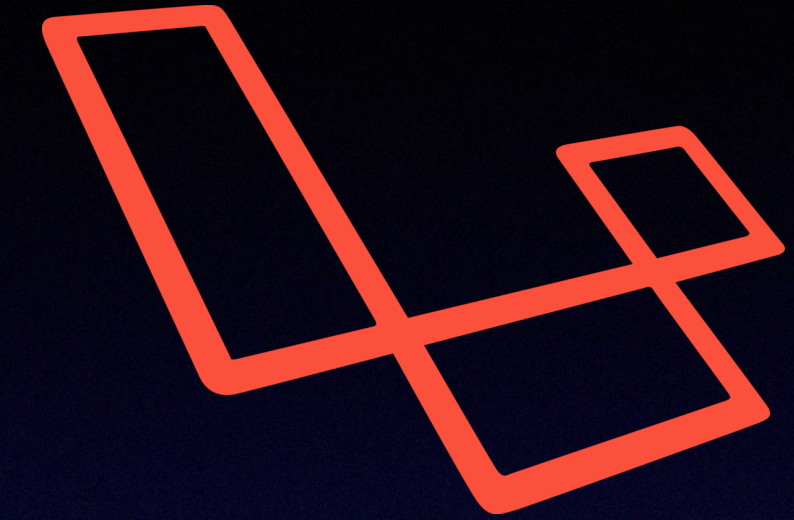
precursor.ca/slides



Laravell uses Model View Controller architecture

**MVC is a web architecture that separates domain/
application/business logic from the rest of the user
interface.**

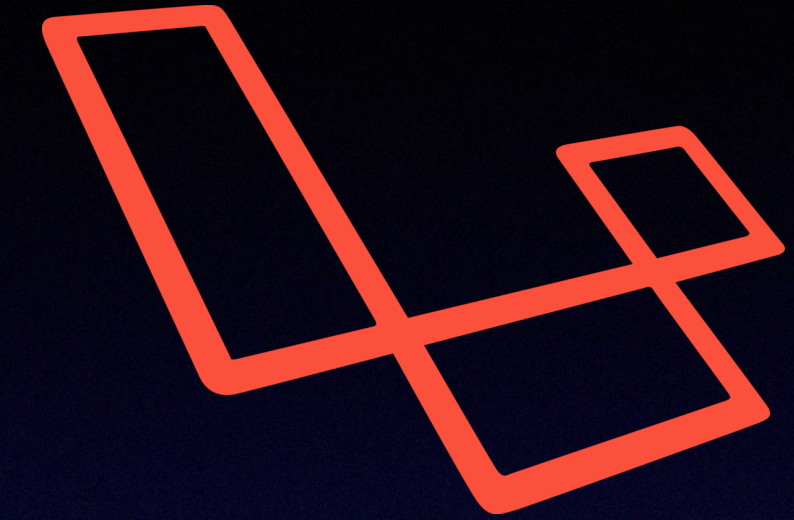
precursor.ca/slides



Laravel Uses Secured Session-based Authentication and Authorization

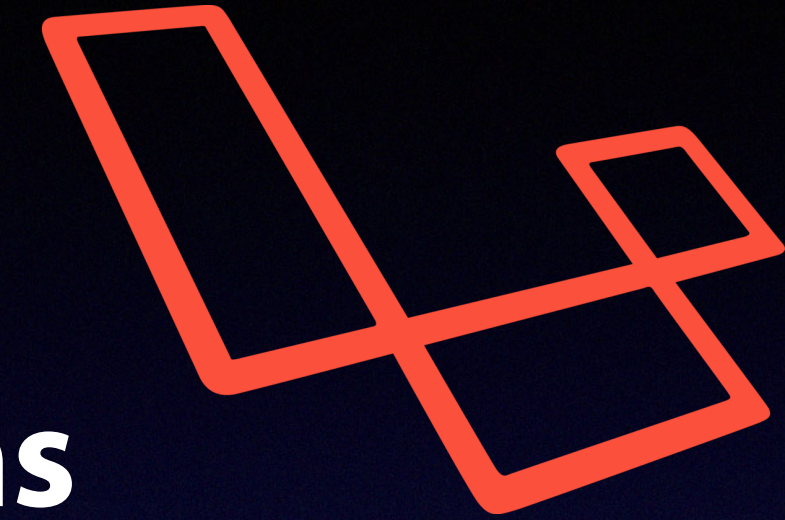
- **Session-based authentication for web development**
- **Token-based authentication in API**

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Laravel Offers Integrated Mail Services, Powered by Symfony

precursor.ca/slides



Laravel Has Various Built-in Security Functions

- **Authentication system**
- **Password hashing**
- **Protection against CSRF**
- **Protection against XSS**
- **SQL injection, and**
- **Cookie protection**

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2023 - Obstacles for Version 6

The authors no longer use Munkireport at work

Munkireport 6 requires 324 open source pkgs

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2023 - Obstacles for Version 6

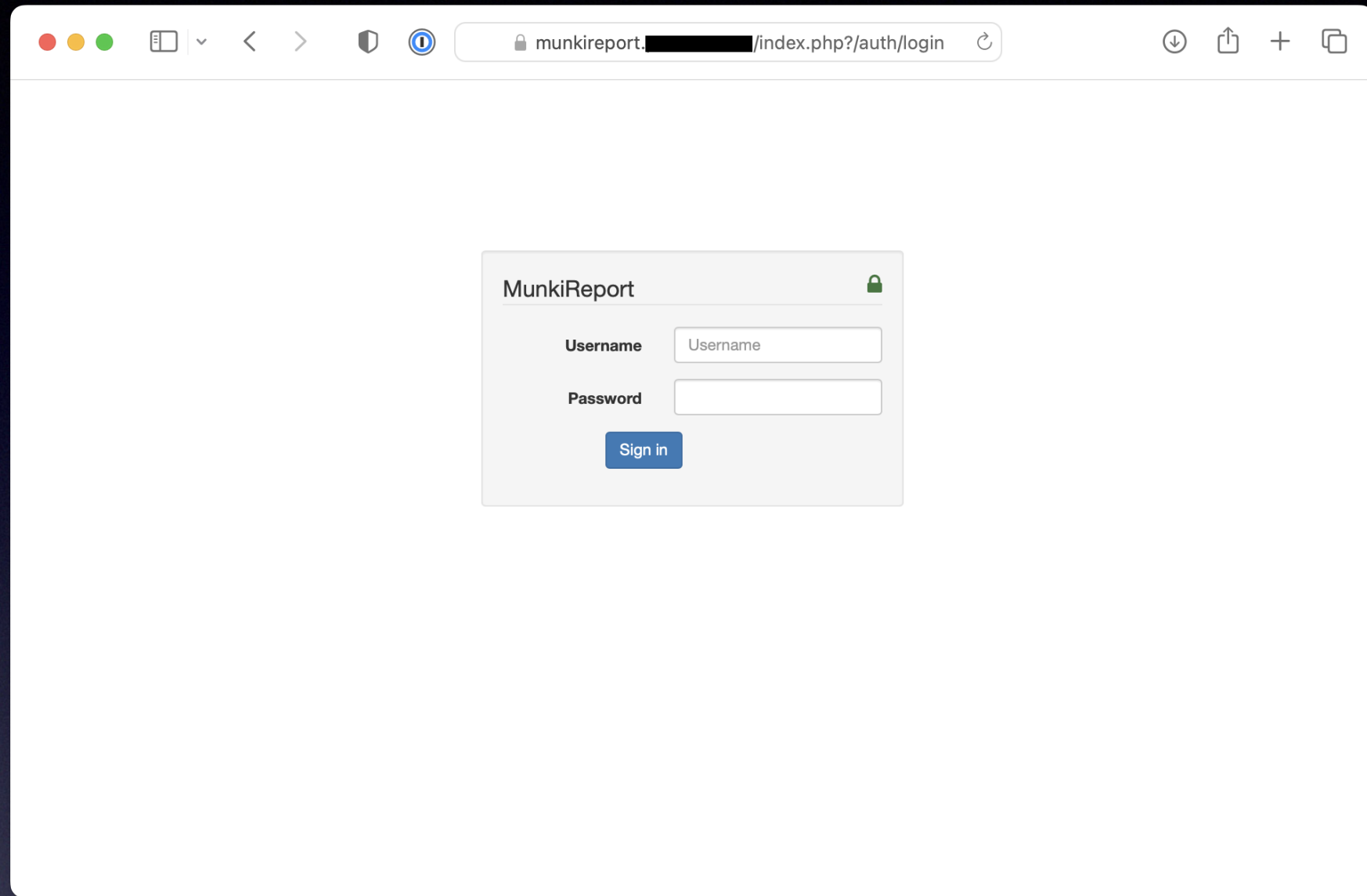


precursor.ca/slides

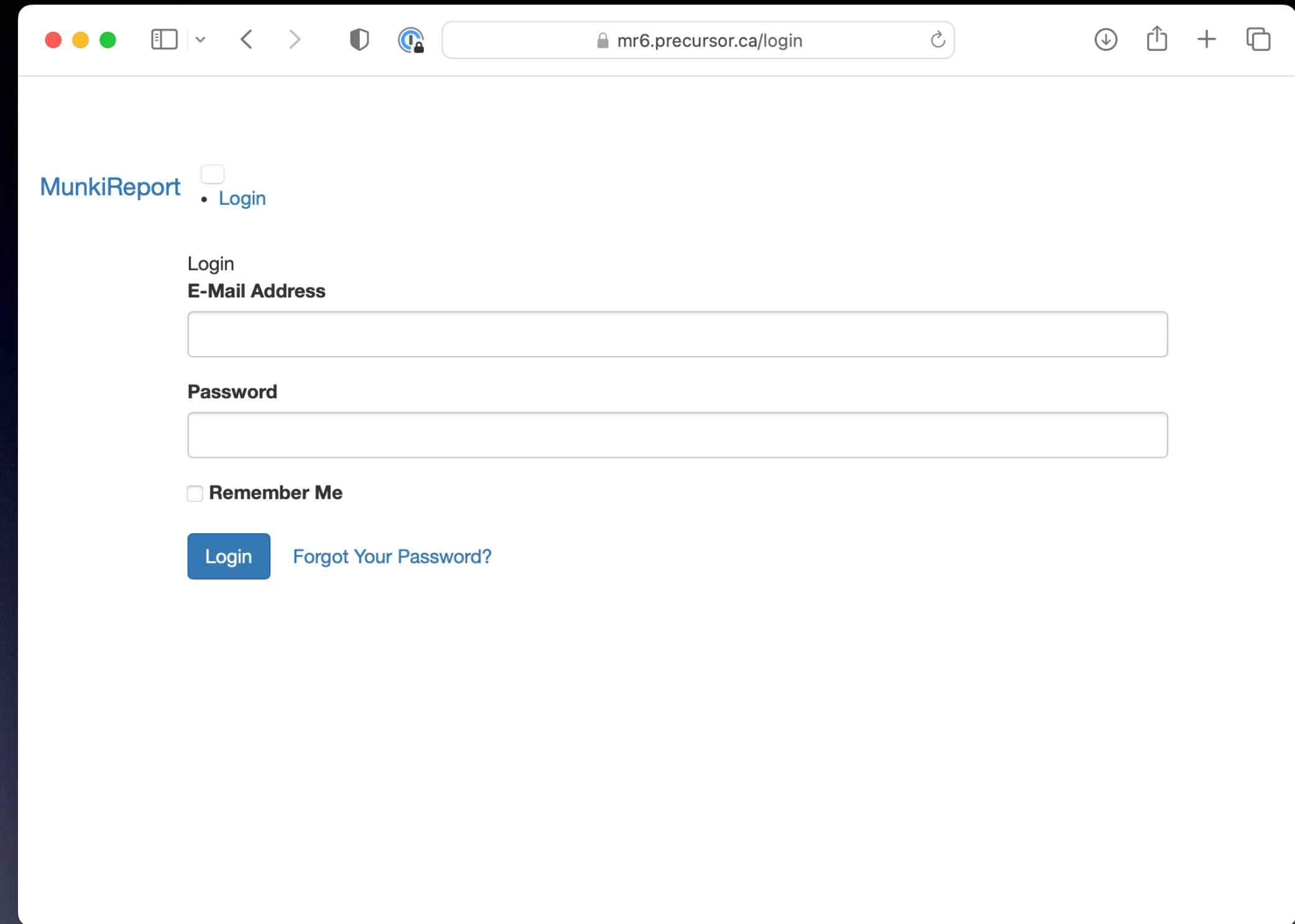


GUI

precursor.ca/slides

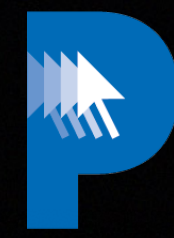


v5



V6

precursor.ca/slides




Browser address bar: mr6.precursor.ca/show/dashboard/default

MunkiReport

- Dashboards
- Reports
- Listings
- Admin
- support@precursor.ca

Client Activity

● Active ● Inactive



Total Clients: 1 | Clients per hour: 1

New Clients

0 0

Munki

0 0

Events

- Precursor's Mac mini | reportdata New Client (4 months ago)

Pending Apple Updates

No Updates Pending

Pending Installs

No Updates Pending

Free Disk Space

1 10GB +

Uptime

0 7 Days + 0 < 7 Days 0 < 1 Day

MunkiReport Version 6.0.0.4389



Browser address bar: mr6.precursor.ca/show/report/mdm_status/mdm_status

MunkiReport

- Dashboards
- Reports
- Listings
- Admin
- support@precursor.ca

MDM Enrollment

0 Not Enrolled	0 Non-UAMDM	0 UAMDM
0 ABM/ASM Assigned		

ABM/ASM Assignment Status

0 Not Assigned	0 Assigned to MDM
-------------------	----------------------

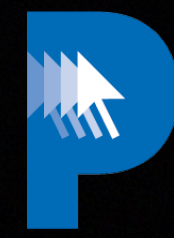
Installed MDM Status

--

MDM Server URL

No Data Available.

MunkiReport Version 6.0.0.4389



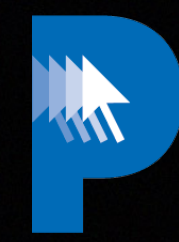
mr6.precursor.ca/show/report/location/location

STACK CONTEXT DEBUG SHARE DOCS

rtrim(): Argument #1 (\$string) must be of type string, Illuminate\Routing\UrlGenerator given

support@precursor.ca

precursor.ca/slides



Authentication

precursor.ca/slides



Local Authentication completely changed

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No longer supported:

local user .yaml style declaration

Specifying users in .env or config.php

precursor.ca/slides



You cannot create a user using:

`/auth/create_local_user` API

`/index.php?/auth/generate` URL

precursor.ca/slides



Users are stored in the db

You cannot have the NOAUTH login method

precursor.ca/slides



`php please user:create`

precursor.ca/slides



```
$ php please user:create
```

```
Name? :
```

```
> Another User
```

```
Email address? :
```

```
> another@localhost
```

```
Password? :
```

```
>
```

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The screenshot shows a web browser window with the URL `https://mr6.example.com/admin/show/business_units`. The page title is "MunkiReport" and the user is logged in as "support@precursor.ca". A modal window titled "Edit Machine Group 1" is open, containing the following fields:

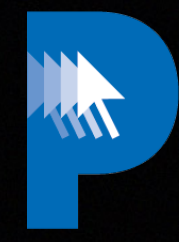
- Name:** A text input field containing "Example".
- Machine Key:** A text input field containing "5b664ef2-68c6-42ec-8598-96c3a79679ad" and a "Generate" button.
- Business Unit:** A dropdown menu with "Example" selected.

At the bottom of the modal are "Cancel" and "Save" buttons. The background shows a "Machine Groups" section with a card for "Example 0" and an "Unassigned Group" section. The footer of the page reads "MunkiReport Version 6.0.0.4389".



```
https://github.com/mosen/munkireport-php/  
blob/wip/docs/authentication/local.md
```

precursor.ca/slides



New API

precursor.ca/slides



```
php please 15-swagger:generate
```

precursor.ca/slides



Swagger
Supported by SMARTBEAR

https://mr6.example.com/docs/api-docs.json Explore

MunkiReport PHP

6.0.0 OAS3

<https://mr6.precursor.ca/docs/api-docs.json>

Authorize

Filter by tag

v5

POST /datatables/data Get data

Munkireport/api/documentation

precursor.ca/slides



a GraphQL endpoint that supports dynamic queries

auth can be either session based or generated API tokens

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Eg. get all machines but only return 4 columns

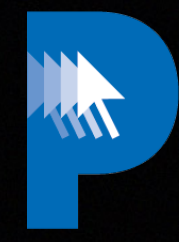
```
query {  
  machines {  
    serial_number  
    id  
    machine_desc  
    machine_model  
  }  
}
```

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the gotcha is that the old datatables api is still more flexible because not every module has an api schema

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Old API

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Stage 1 cURL to get a CSRF Token and write it to a Cookie-Jar

```
curl -v 'https://mr6.example.com/login' \  
-H 'Content-Type: application/x-www-form-urlencoded' \  
-c '/Path/To/cookie.txt'
```




Stage 1 The token appears in both HTML Header and Body

```
<head>  
<meta name="csrf-token" content="Mb372xvNwBKxZ7jprsti">  
</head>
```

```
<body>  
<input type="hidden" name="_token" value="Mb372xvNwBKxZ7jprsti">  
</body>
```

precursor.ca/slides



Stage 2 cURL to authenticate using your email address, password, CSRF token (from Stage 1) and Session cookie

```
curl -v 'https://mr6.example.com/login' \  
  -H 'Content-Type: application/x-www-form-urlencoded' \  
  --data-raw '_token=Mb372xvNwBKxZ7jprs&email=name@example.com&password=Password' \  
  -c '/Path/To/cookie.txt'
```




Stage 2 The munkireport_session cookie appears in the HEADER as: *Set-Cookie*

< Set-Cookie: munkireport_session= 340 characters of munkireport_session goodness



Stage 3 cURL to get data

```
curl -v 'https://mr6.example.com/module/reportdata/getUptimeStats' \  
  -H 'Content-Type: application/json' \  
  --data-raw '_token=Mb372xvNwBKxZ7jprs&email=name@example.com&password=Password' \  
  -H 'Cookie: munkireport_session=eyJpdiI6IkUzMzhvSHpPZjVsMFpMQnQ1M1R6dHc9PSIsInZh  
bHVlIjoibVA1WFNXNVQ2WG9vZERCWm5UbUo5aVRs0VBQVDZpazFNeFFWeUFxZXFGMnE1UzhWVD  
ArcG9hVGFxMUZBMlVTWU1USTVtTEZlN0m1TSTNiY1o5SGtHV28zY3NpbXl3Wk92YnAvdktSa09vVURRNkMweWtXS  
lJaWHo30VFM0TBkTWoiLCJtYWMiOiJmNjkwNTA4NWJlZDM2YWZlOTQ4ZGVkZGI0MWZjMjcyMTFhNTBhNzMyODk2Z  
jIzMjM4NDk4MwY1YjUxZjkyNWYzIiwidGFuIjoibWVudC90%3D'  
  -H 'X-CSRF-TOKEN: Mb372xvNwBKxZ7jprstigDcnoEKbw6QLKfawse3r'
```

precursor.ca/slides



Stage 3 Get your JSON!

module/reportdata/getUptimeStats

```
{"total":2,"oneday":1,"oneweek":1,"oneweekplus":null}
```

<https://github.com/munkireport/munkireport-php/wiki>

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Making a Module

precursor.ca/slides



Making a Module

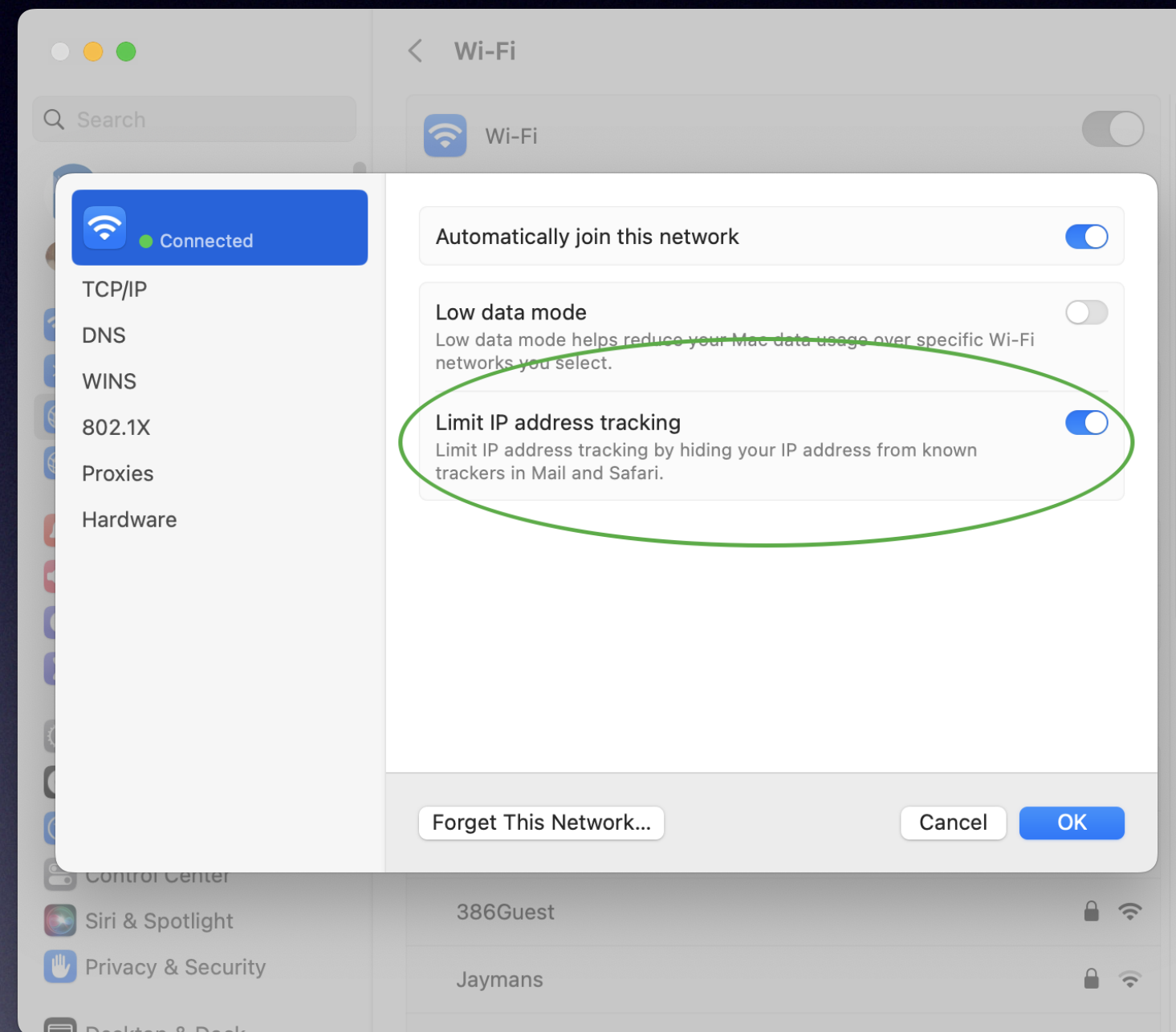
1) A script to gather info

2) `please make:module`

precursor.ca/slides



LimitIPTracking Module



precursor.ca/slides



```
#Limit IP Tracking Status Checker -  
#(https://github.com/brunerd)  
#include this function in your script  
function limitIPTracking() (
```

<https://github.com/brunerd/macAdminTools/blob/main/Scripts/limitIPTrackingStatus.min.sh>

precursor.ca/slides



```
Cd /Users/Shared/munkireport-php
```

```
php please make:module
```

precursor.ca/slides



```
% php please make:module  
Creating a module is cool!
```

```
Where do you want to generate the module?:
```

```
[0] /Users/Shared/munkireport-php/bootstrap/../../local/modules/  
[1] /Users/Shared/munkireport-php/bootstrap/../../vendor/munkireport/  
> 0
```

```
What is the name of the module? [I ❤️ MunkiReport]:
```

```
> LimitIPtracking
```

```
How many database fields do you need? (apart from id and serial_number) [3]:
```

```
> 1
```




What is the (short) English description of field 1? [Field 1]:

> Status

What is the name of field 1? [status]:

> status

What is the type of field 1?:

[0] string

[1] integer

[2] bigInteger

[3] boolean

[4] text

> boolean

Create index for field 1? [no]:

[0] yes

[1] no

> yes



```
Create widget for field 1? [no]:
```

```
[0] button
```

```
[1] no
```

```
> 2
```

column	type	index	i18n	en	widget
status	boolean	yes	limitiptracking.column.status	Status	button



Do you need to store more than one row per machine? [no]:

[0] yes

[1] no

> no

Column	Type	Indexed	English
id	increments		
serial_number	string	unique	Serial Number
status	boolean	yes	Status

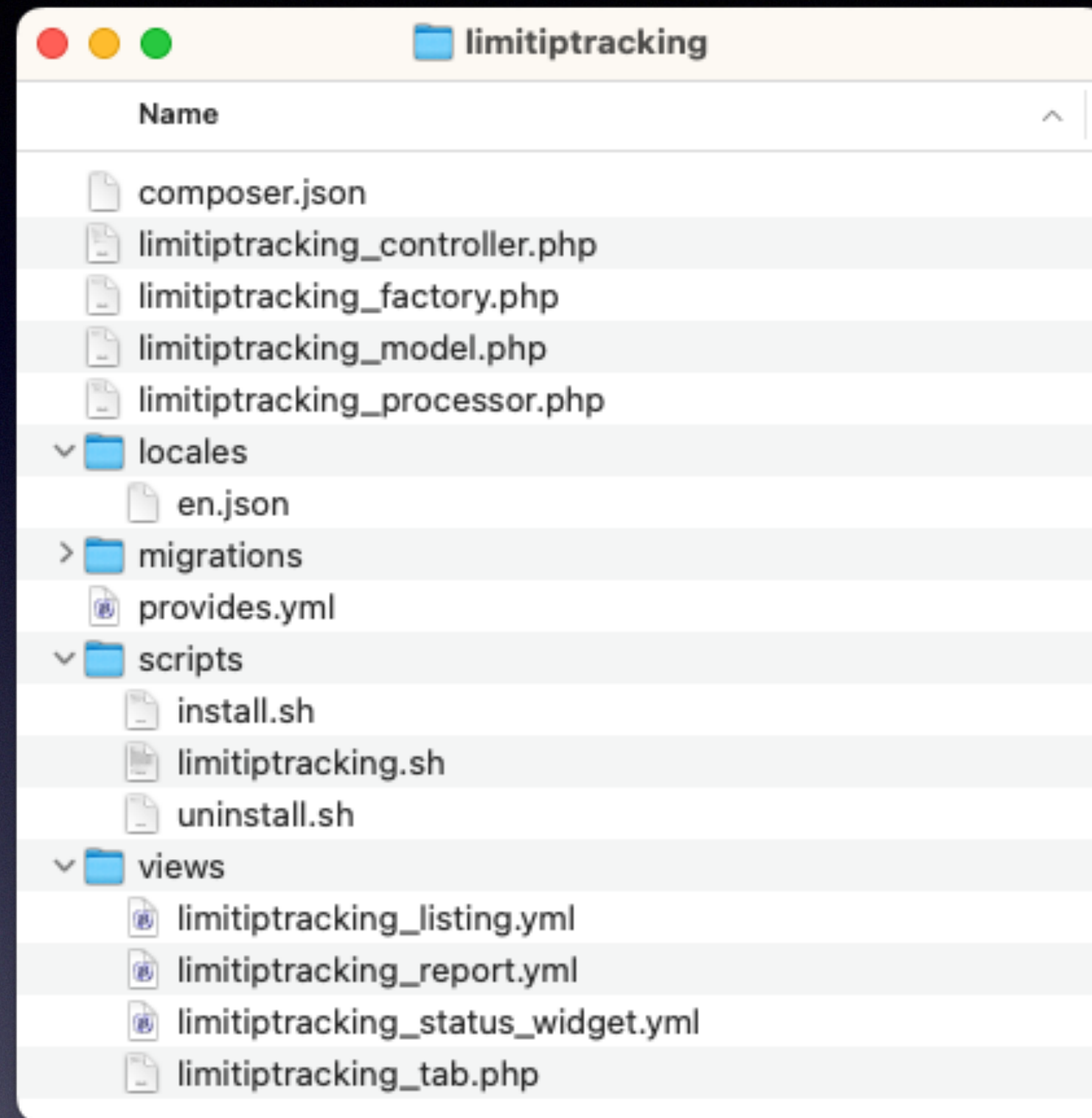
Do you wish to continue? (yes/no) [yes]:

> y

Your module is ready! It's available here:

`/Users/Shared/munkireport-php/bootstrap/../../local/modules/limitiptracking/`

precursor.ca/slides



precursor.ca/slides



```
% php please migrate
Using MunkiReport Version of Migrate
  INFO  Running migrations.

2023_05_06_145303_limitiptracking_init ..... 2ms DONE
```




**/usr/local/module/limitIPtracking/scripts/
limitIPtracking.sh**

precursor.ca/slides



```
# Script to collect data
# and put the data into outputfile

CWD=$(dirname $0)
CACHEDIR="$CWD/cache/"
OUTPUT_FILE="{CACHEDIR}limitiptracking.txt"
SEPARATOR=' = '

# Business logic goes here
# Replace 'echo' in the following lines with the data collection commands for your module.
STATUS=$(echo)

# Output data here
echo "status${SEPARATOR}${STATUS}" >> ${OUTPUT_FILE}
```




```
# Business logic goes here
# Replace 'echo' in the following lines with the data collection commands for your module.
STATUS=${LimitIPTracking}

#include this self-contained function in your script
function limitIPTracking()(
. . .
```

<https://github.com/brunerd/macAdminTools/blob/main/Scripts/limitIPTrackingStatus.min.sh>

precursor.ca/slides



/usr/local/munkireport/scripts/limitIPtrackingStatus.sh

/usr/local/munkireport/scripts/cache/limitIPtracking.txt

precursor.ca/slides



```
# MODULES  
MODULES="bees, limitiptracking,
```

```
/Users/Shared/munkireport-php/ .env
```

precursor.ca/slides



Create a client installer

```
sudo /bin/bash -c "$(curl -s 'http://mr6.example.com/index.php?/install')"
```

```
bash -v 6.0.0.4389.1 -i ~/Desktop
```



precursor.ca/slides



```
sudo /usr/local/munkireport/munkireport-runner
```

precursor.ca/slides



Browser address bar: <https://mr6.example.com/show/report/limitiptracking/limitiptracking>

MunkiReport Dashboards Reports Listings Admin

Status

0 Off	2 On
-------	------

MunkiReport Version 6.0.0.4389

Browser address bar: <https://mr6.example/show/listing/limitiptracking/limitiptracking>

MunkiReport Dashboards Reports Listings Admin

LimitIPtracking 3

10 records per page

Edit Copy Excel CSV Print

pre|



Name	Serial Number	Status
Precursor's Mac mini	H2[REDACTED]NY	Yes
Precursor MBPro	LQ[REDACTED]0F	Yes

Showing 1 to 2 of 2 entries (filtered from 3 total entries)

Previous **1** Next

MunkiReport Version 6.0.0.4389



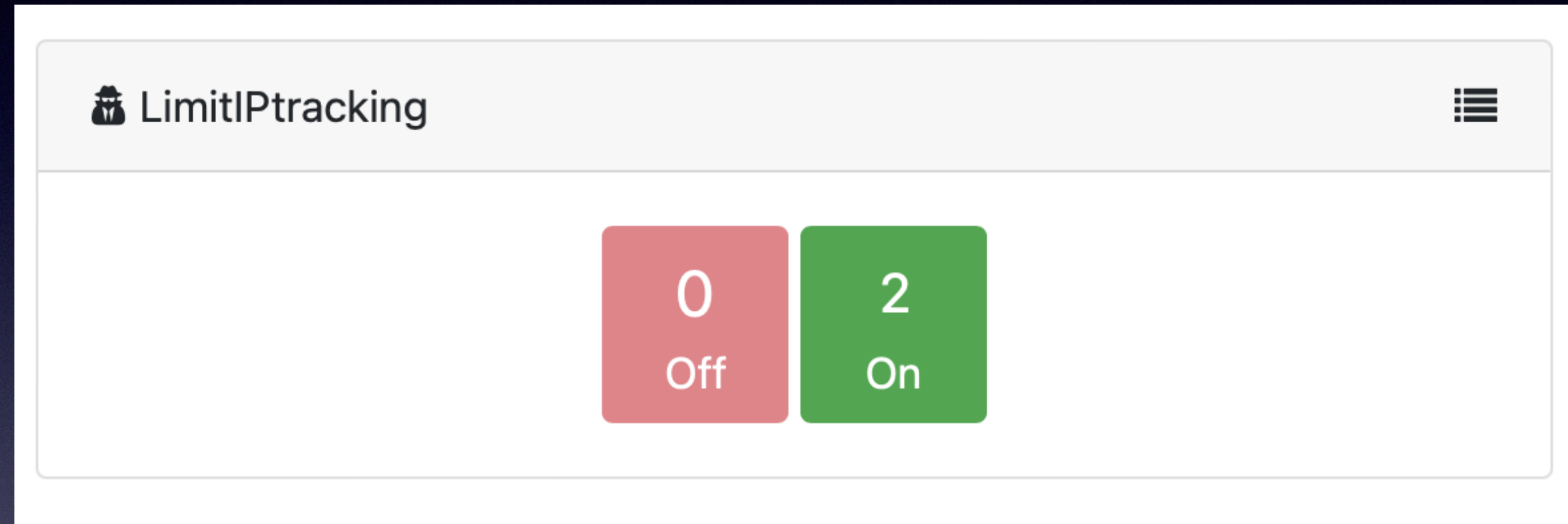
 LimitIPtracking 

0 Off 2 On

precursor.ca/slides



en.json

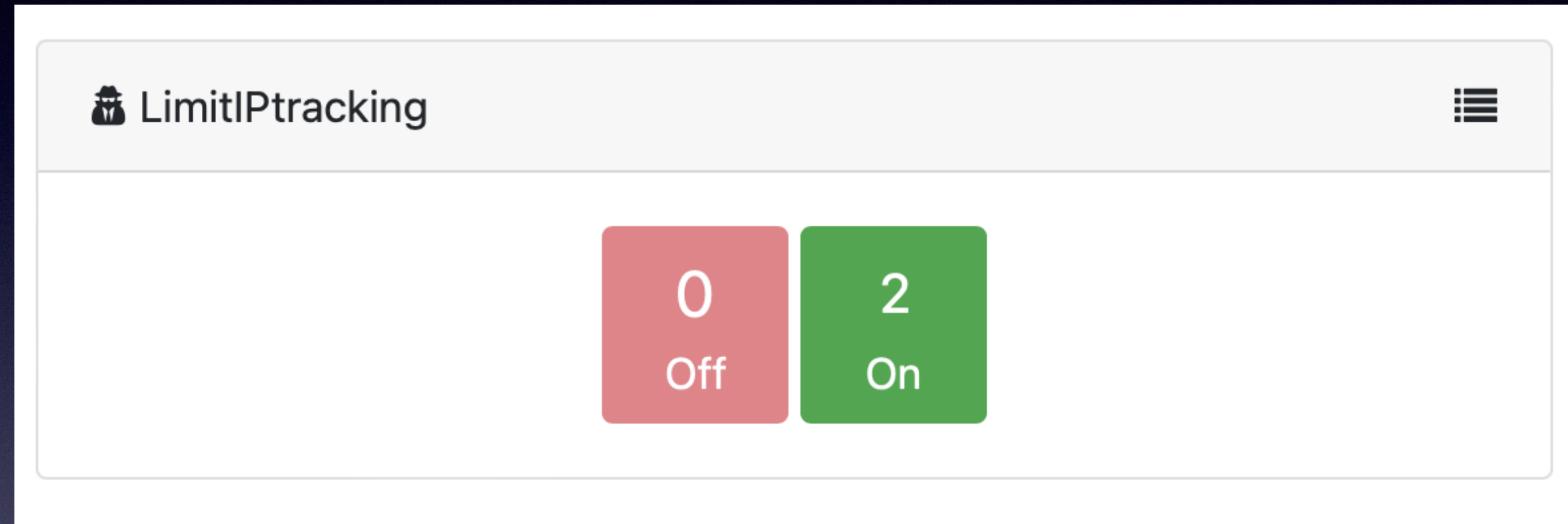


```
"widget": {  
  "status_title": "LimitIPtracking"
```

precursor.ca/slides



limitiptracking_status_widget.yml



```
icon: fa-user-private
```

precursor.ca/slides



`/usr/local/modules/limitiptrackgin/locales/fr.json`

```
{
  "column": {
    "status": "Etat"
  },
  "listing": {
    "title": "Limiter le suivi de l'adresse IP"
  },
  "report": {
    "title": "Limiter le suivi de l'adresse IP"
  },
  "title": "Limiter le suivi de l'adresse IP",
  "widget": {
    "status_title": "Limiter le suivi de l'adresse IP"
  }
}
```




Install Munkireport v.6

precursor.ca/slides



<https://github.com/munkireport/munkireport-php/wiki/Quick-demo-v6>

<https://github.com/mosen/munkireport-php/tree/wip>

<https://github.com/tuxudo/munkireport-php/tree/mr5-python3>

precursor.ca/slides



Munkireport v 6.0 recipe

1) web server (macOS has apache built-in)

2) PHP 8

<https://github.com/precursorca/php-recipe>

precursor.ca/slides



Munkireport v 6.0 recipe

3) download the code from Mosen's repo

<https://github.com/mosen/munkireport-php/tree/wip>

`/Users/Shared/munkireport-php`

precursor.ca/slides



Munkireport v 6.0 recipe

<https://github.com/mosen/munkireport-php/tree/wip>

4) Install the dependencies

```
cd /Users/Shared/munkireport-php
```

```
composer install
```

precursor.ca/slides



Update composer.json for MR5/Python3

For the modules:

```
"munkireport/applications": "^4.0",
"munkireport/appusage": "^2.0",
"munkireport/ard": "^5.0",
"munkireport/backup2go": "dev-master",
"munkireport/bluetooth": "^4.0",
"munkireport/caching": "^1.0",
"munkireport/certificate": "^1.0",
"munkireport/crashplan": "^4.0",
"munkireport/detectx": "^2.0",
"munkireport/devtools": "^3.0",
"munkireport/directory_service": "^1.0",
"munkireport/disk_report": "^5.0",
"munkireport/displays_info": "^4.0",
"munkireport/event": "^3.0",
"munkireport/extensions": "^3.0",
"munkireport/fan_temps": "^3.0",
"munkireport/filevault_status": "^3.0",
"munkireport/filevault_escrow": "^1.0",
"munkireport/findmymac": "^1.0",
"munkireport/firewall": "^3.0",
"munkireport/firmware_escrow": "^1.0",
"munkireport/fonts": "^3.0",
"munkireport/gpu": "^3.0",0",
"munkireport/mabbr_status": "^3.0",
"munkireport/mdm_status": "^3.0",
"munkireport/munki_facts": "^3.0",
"munkireport/munkiinfo": "^3.0",
"munkireport/munkireport": "^5.0",
"munkireport/munkireportinfo": "^3.0",
"munkireport/network": "^5.0",
"munkireport/network_shares": "^3.0",
"munkireport/power": "^3.0",
"munkireport/printer": "^3.0",
"munkireport/profile": "^4.0",
"munkireport/sccm_status": "^1.0",
"munkireport/security": "^4.0",
"munkireport/sentinelone": "^3.0",
"munkireport/sentinelonequarantine": "^3.0",
"munkireport/smart_stats": "^3.0",
"munkireport/softwareupdate": "^3.0",
"munkireport/sophos": "^3.0",
"munkireport/supported_os": "^2.0",
"munkireport/timemachine": "^4.0",
"munkireport/usage_stats": "^3.0",
"munkireport/usb": "^3.0",
"munkireport/user_sessions": "^3.0",
"munkireport/warranty": "^4.0",
"munkireport/wifi": "^3.0",
```

And at the end of the file for compatibility:

```
"minimum-stability": "dev",
"prefer-stable": true,
```

precursor.ca/slides



Or update composer.json for MR6/Python3

John Eberle

mr6-python3 branch made in all my repos as well as in:

https://github.com/jc0b/jamf_protect,
<https://github.com/jc0b/kandji>,
<https://github.com/joncrajin/manifests>,
<https://github.com/joncrajin/nomad>,
<https://github.com/joncrajin/time>

Mosen

i will make the composer.json refer to dev-python3-mr6 until every module is complete, and then when its all ready we can bump to a real version number

precursor.ca/slides



Munkireport v 6.0 recipe

5) Edit the config

```
cp .env.example .env
```

Uncomment (remove '#') the DB:

```
DB_CONNECTION=sqlite
```

precursor.ca/slides



Munkireport v 6.0 recipe

6) Create the DB

```
touch app/db/db.sqlite
```

```
./please migrate
```

Make sure /App/DB has read/write for _www

precursor.ca/slides



Munkireport v 6.0 recipe

7) Create a user

```
./please user:create
```

And edit that user into the role of Admin in the .env file:

```
ROLES_ADMIN="youradmin@example.com"
```

precursor.ca/slides



Munkireport v 6.0 recipe

8) Install the recommended Python 3

<https://github.com/MagerValp/MunkiReport-Python/releases>

precursor.ca/slides



Munkireport v 6.0 recipe

9) Configure the client on the local computer:

```
sudo /bin/bash -c "$(curl -s 'http://localhost:8888/index.php?install')"
```

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Munkireport v 6.0 recipe

10) Initiate a run:

```
sudo /usr/local/munkireport/munkireport-runner
```

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Munkireport v 6.0 recipe

11) Make and distribute a client:

```
sudo /bin/bash -c "$(curl -s 'http://mr6.example.com/index.php?/install')" bash -v 6.0.0.1 -i ~/Desktop
```

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<https://github.com/mosen/munkireport-php/tree/wip>

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<https://github.com/tuxudo/munkireport-php/tree/mr5-python3>

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<https://github.com/munkireport/munkireport-php/wiki/>

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Munkireport Hall of Fame



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Mike Solin

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Mat Xavier

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+ many, many others!

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