

# The Ultimate Administrator's Guide to HCL Nomad Web

September 19<sup>th</sup>, 2023



## Host & Speaker



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# Agenda

- ▶ A short introduction into HCL Nomad Web
- ▶ Latest releases
- ▶ Infrastructure overview and installation
- ▶ Best Practices
- ▶ **DEMO** – if we have time 😊
- ▶ Bonus
- ▶ Q & A





**A short introduction into HCL Nomad Web**



**Nomad (mobile)**



**Nomad Web**

*Official name*  
*"HCL Nomad for web browser"*

# Introduction to HCL Nomad Web (cont.)



# Introduction to HCL Nomad Web (cont.)

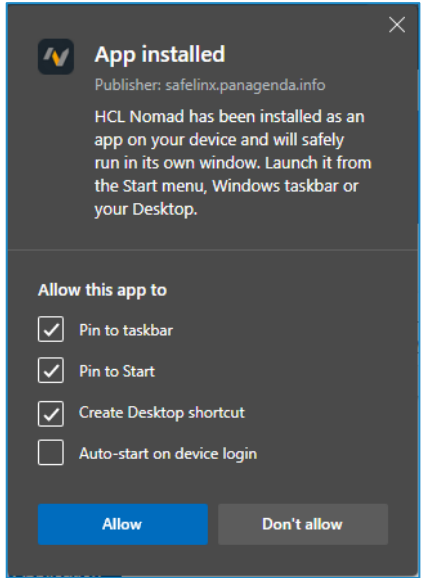
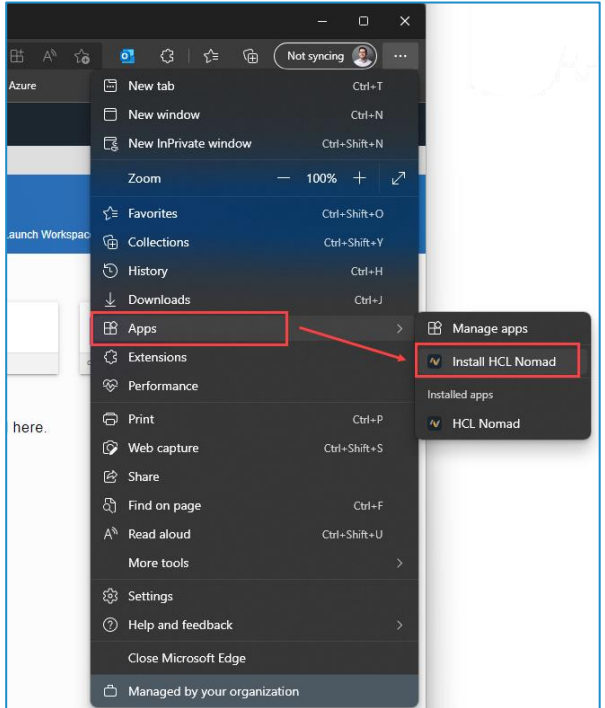
The screenshot displays the HCL Nomad Web interface, which is a web-based management console. The interface is organized into several key sections:

- Navigation:** A top navigation bar includes links for Home, Workspace, and Recent Apps. A sidebar on the left provides access to various system components.
- Workspace:** The main area shows a workspace with a "My start page" and a "MarvelClient" section. It lists users like Jane Doe and John Doe, along with their roles and server locations.
- Configuration:** A "MarvelClient Config" panel is visible, showing a tree view of configuration items such as "All Actions", "Self-created Folders", and "General".
- Table View:** A table displays a list of configuration items with columns for Active status, ID, Priority, Type, Dev, Plat, Who, When, Last modified UTC+SE, and Title. The table includes entries like "Nomad Web Migration", "Ready-to-use for MarvelClient Essentials", and "Audit/Monitoring".

Active	ID	Priority	Type	Dev	Plat	Who	When	Last modified UTC+SE	Conc	Title
3	3	0	0							Demo
3	3	0	0							Nomad Web Migration
3	3	0	0							Rich Client Essentials
3	3	0	0							Migration Roaming - Analyze variables
3	3	0	0							Migration Roaming - Rollback
3	3	0	0							Upload Migration Roaming Set
4	4	4	4							Ready-to-use for MarvelClient Essentials
4	4	4	4							Enable Essentials Shutdown Runtime (ini.MC_EssentialsShutdown)
4	4	4	4							ANALYZE: Exclude ini-Entries Directory, SharedDataDirectory and
2	2	2	2							Audit/Monitoring
2	2	2	2							ANALYZE: Exclude ini-Entries Directory, SharedDataDirectory and
9	8	8	8							Ready-to-use for panagenda customers and HCL Nomad
9	8	8	8							Workspace Page 1
9	8	8	8							ANALYZE: Exclude ini-Entries Directory, SharedDataDirectory and
9	8	8	8							ROAMING: Exclude ini-Entries Directory, SharedDataDirectory and
9	8	8	8							Send and Receive Smallest First (All Locations)
9	8	8	8							Desktopicon: Manage Mailfile Icon on Page 1, top left
3	3	3	3							Audit/Monitoring
3	3	3	3							Export Extended Database Information and ID file Details
3	3	3	3							Set Path to MC Analyze (ini.MC_UploadDB)
3	3	3	3							BACKUP: Upload Audit / Monitoring Data into Analyze Database
1	1	1	1							Performance Monitoring
1	1	1	1							Measure Latency to/from user's mailserver



# Introduction to HCL Nomad Web (cont.)



# Introduction to HCL Nomad Web (cont.)

The screenshot displays the HCL Nomad Web interface with three overlapping windows. The background window shows the 'Recent Applications' section with a 'MarvelClient Config' application on server01. The middle window shows the 'Workspace' view with tabs for 'My start page', 'MarvelClient', and 'Workspace 3' through 'Workspace 5'. The foreground window shows the 'MarvelClient Config (server01)' configuration page, which includes a left-hand navigation menu and a main configuration table.

#	Active	0/1	Priority	Type	Dev.	Plat.	Who	When	Last modified	UTC+SE	Conditions	Title
3	3											<b>Demo</b>
3	3											<b>Nomad Web Migration</b>
									20210903T133025	Z0004		Migration Roaming - Analyze variables
									20220328T082126	Z0020	(M)	Migration Roaming - Rollback
									20220327T141107	Z0032		Upload Migration Roaming Set
4	4											<b>IReady-to-use for MarvelClient Essentials</b>
									20210622T073819	Z0028		Enable Essentials Shutdown Runtime (ini:MC_EssentialsShutdown)
									20190918T161440	Z0004		ANALYZE: Exclude Ini-Entries Directory, SharedDataDirectory at
2	2											<b>Audit/Monitoring</b>
									20181106T092950	Z0024		Set Path to MC Analyze (ini:MC_UploadDB)
									4,199,999.991			BACKUP: Upload Audit / Monitoring Data into Analyze Database
9	8											<b>IReady-to-use for panagenda customers and HCL Nomad</b>
									1,500,000.000		Page	Workspace Page 1
									20190918T161440	Z0009		ANALYZE: Exclude Ini-Entries Directory, SharedDataDirectory at
									20180929T132610	Z0100		ROAMING: Exclude Ini-Entries Directory, SharedDataDirectory at
									20180929T132739	Z0200		Send and Receive Smallest First (All Locations)
									3,000,000.000			Desktopicon: Manage Mailfile Icon on Page 1, top left
3	3											<b>Audit/Monitoring</b>
									251			Export Extended Database Information and ID file Details
									1,000			Set Path to MC Analyze (ini:MC_UploadDB)
									4,199,999.991			BACKUP: Upload Audit / Monitoring Data into Analyze Database
1	1											<b>Performance Monitoring</b>
									251			Measure Latency to/from user's mailserver

# Introduction to HCL Nomad Web (cont.)

## License requirements

To use HCL Nomad for web browsers, you agree to obtain and maintain an active subscription and Support for HCL Domino Complete Collaboration (CCB). Please note, only CCB customers are entitled to use HCL Nomad for web browsers.



## A Match made in **Heaven**



**HCL Nomad**



**MarvelClient™**

**MarvelClient is automatically included in Nomad (mobile) & Nomad Web**

# MarvelClient for Nomad (mobile) & Nomad Web

Analyze	Web unlicensed	Web + Basic	iOS	Android
Desktop, Bookmarks	✓	✓	✓	✓
notes.ini, User Preferences	✓	✓	✓	✓
Mailfile Details	✓	✓	✓	✓
HCL Notes/Nomad Version and Installation Information	✓	✓	✓	✓
Local Databases / Replicas		✓	✓	✓
ECL		✓	✓	✓
Server ↔ Client Latency		✓	✓	✓
Locations, Connections, Accounts, Certificates		✓	✓	✓
OS and Hardware Overview			✓	✓

# MarvelClient for Nomad (mobile) & Nomad Web (cont.)

Configuration	Web unlicensed	Web + Basic	iOS	Android
notes.ini and MC Config Variables	✓	✓	✓	✓
Any .ini, xml, or json File	✓	✓	✓	✓
User Preferences	✓	✓	✓	✓
Up/Download	Web unlicensed	Web + Basic	iOS	Android
Upload Data for Analyze	✓	✓	✓	✓
Smart File Downloader			✓	✓
File Deployment (platform restrictions may apply)			✓	✓
Run	Web unlicensed	Web + Basic	iOS	Android
Run Agents		✓	✓	✓
Run Notes Formulas		✓	✓	✓
Run Programs				✓

# MarvelClient for Nomad (mobile) & Nomad Web (cont.)

Migrate	Web unlicensed	Web + Basic	iOS	Android
Mass Change to Update Database Links		✓	✓	✓
Mass Delete to Remove Database Links		✓	✓	✓

Manage	Web unlicensed	Web + Basic	iOS	Android
Workspace Pages		✓	✓	✓
Desktop Icons		✓	✓	✓
Locations		✓	✓	✓
Connections		✓	✓	✓
ECL		✓	✓	✓
Profile Documents		✓	✓	✓
Local Replicas*		✓	✓	✓

\* Local replicas are available HCL Nomad Web 1.0.4 and higher

# MarvelClient for Nomad (mobile) & Nomad Web (cont.)

Nomad Specific	Web unlicensed	Web + Basic	iOS	Android
Recent Apps		✓	✓	✓
App Restrictions	✓	✓	✓	✓
Nomad Location		✓	✓	✓
Nomad Web Migration**	✓	✓		
Nomad Roaming***		✓	✓	✓

\*\* Nomad Web Migration is available in HCL Nomad Web 1.0.2 and higher

\*\*\* Nomad Roaming is available in HCL Nomad Web 1.0.5 and higher and needs to be licensed with panagenda





A background image showing a white 3D architectural structure of rectangular blocks, with a white ladder leaning against the left side. A vertical blue line is positioned to the left of the text "Latest releases".

## Latest releases

# HCL Nomad Web – releases

Version	Release Date
1.0.9	2023-09-13
1.0.8	2023-05-24
1.0.7	2023-03-08
1.0.6	2022-12-06
1.0.5	2022-09-22
1.0.4	2022-07-13
1.0.3	2022-03-30
1.0.2	2021-12-14
1.0.1	2021-09-17
1.0.0	2021-05-27

# HCL Nomad Web – current releases notes

## What's new in HCL Nomad for web browsers

✓ **Release 1.0.9** [🔗](#)

- **Information box support**

Information boxes are used to show Application Properties, Document Properties, Database Properties, Text Properties, Workspace Properties, etc. Rather than being a free floating dialog as the information box is in HCL Notes, the information box is shown docked on the right side.

- **File > Import** has been enhanced to support more previously unsupported file types. For more information, see [Limitations](#).

- **Domino Restyle updates:**

- User-supplied themes.

Restyle can now utilize user-supplied themes stored in a shared database. For more information, see [Customizing themes with Restyle](#).

- Users can import an application icon. For more information, see the bullet on the **fourth tab - Create icon** in [Domino Restyle for Notes applications](#) in the Notes documentation.

- Shared fields and shared columns are now restyled. For more information, see [Settings in the Restyle wizard](#).

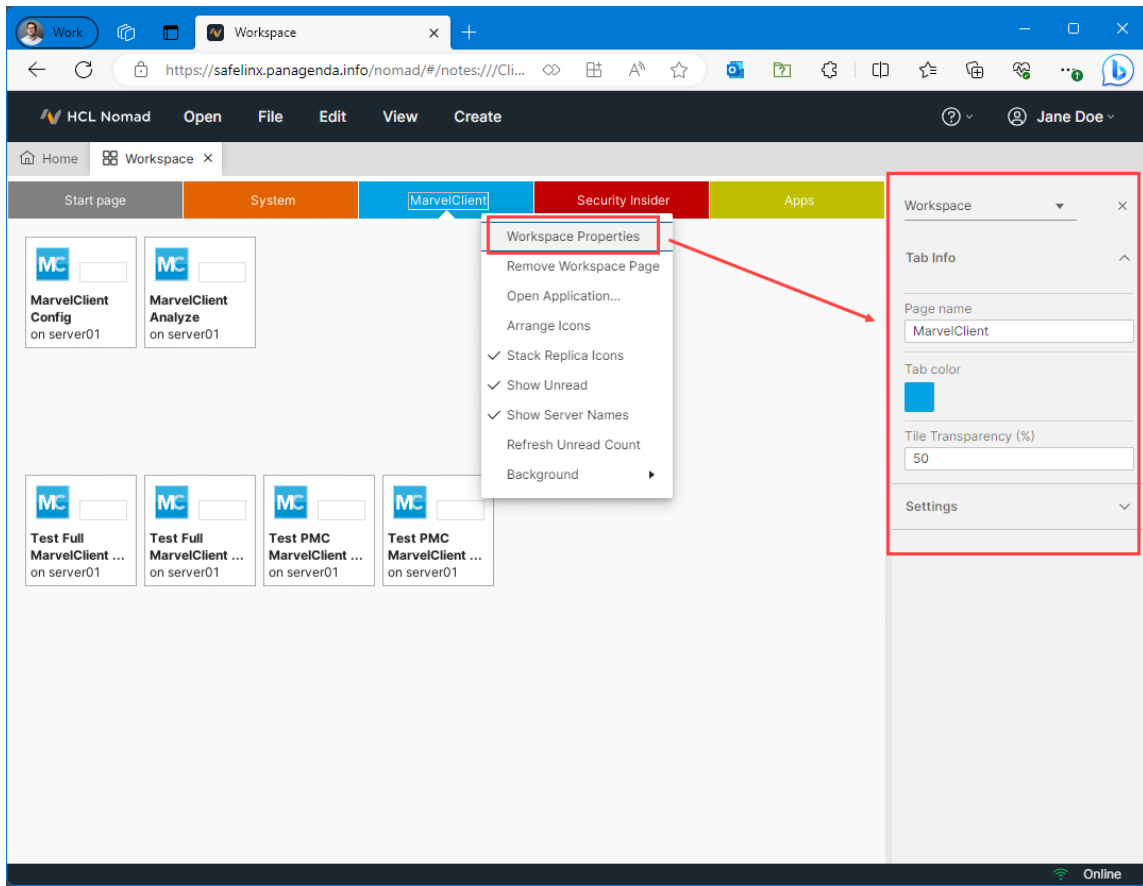
- Users can optionally apply updated icons for action buttons and view column icons. For more information, see [Settings in the Restyle wizard](#).

- Restyle only selected portions of the application. For more information, see [Settings in the Restyle wizard](#).

- Restyle can now utilize user-supplied typography. For more information, see [Customize typography with Restyle](#).



# Properties Dialog - Workspace

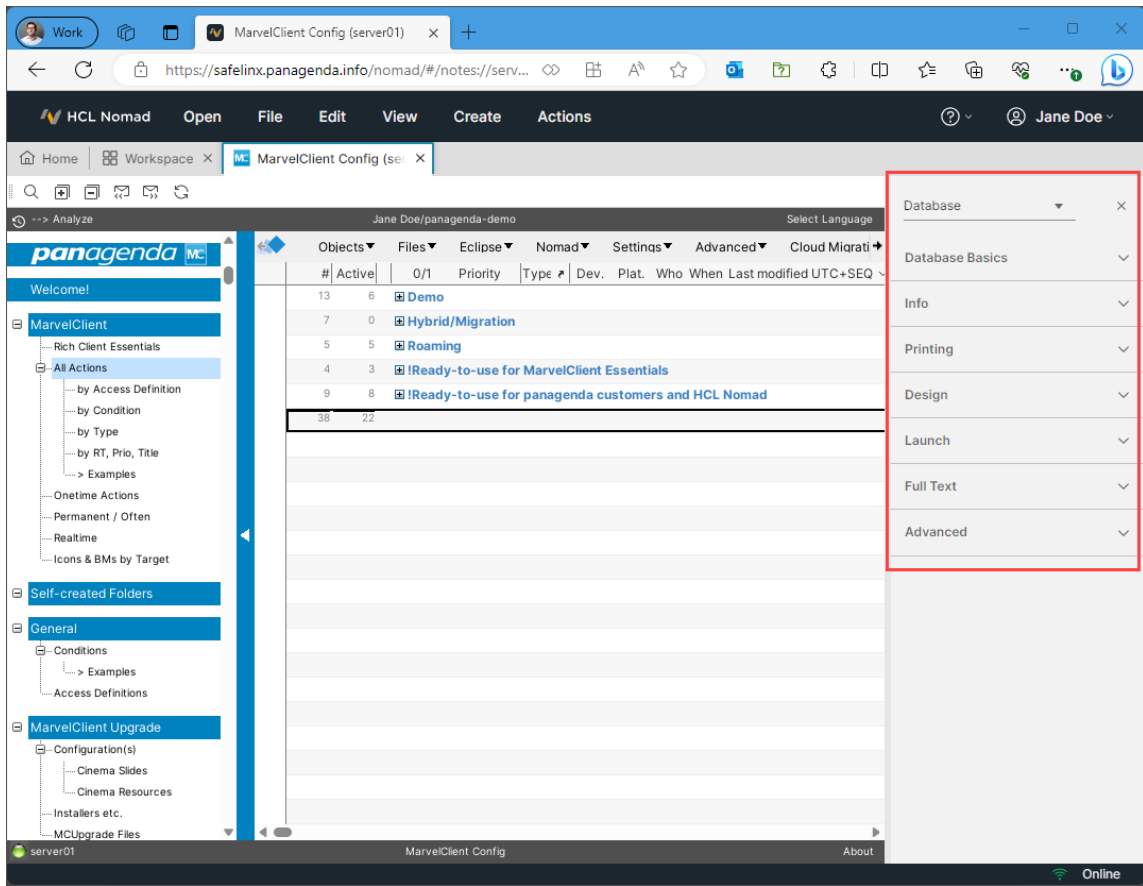


The screenshot shows the HCL Nomad Workspace interface. At the top, there is a navigation bar with 'HCL Nomad', 'Open', 'File', 'Edit', 'View', and 'Create' menus. The user 'Jane Doe' is logged in. The main workspace area contains several application tiles, including 'MarvelClient Config on server01', 'MarvelClient Analyze on server01', and four 'Test Full' or 'Test PMC' tiles. A context menu is open over the 'MarvelClient' tab, with 'Workspace Properties' highlighted. A red arrow points from this menu item to the 'Workspace Properties' dialog on the right side of the screen. The dialog has a red border and contains the following settings:

- Workspace: [Dropdown]
- Tab Info: [Dropdown]
- Page name:
- Tab color:
- Tile Transparency (%):
- Settings: [Dropdown]

At the bottom right of the interface, there is an 'Online' status indicator with a Wi-Fi icon.

# Properties Dialog - Database



The screenshot shows the HCL Nomad web interface. The main workspace displays a table of objects for 'MarvelClient Config'. A 'Database' properties dialog is open on the right side, highlighted with a red border. The dialog contains a list of categories for database configuration.

Objects	Files	Eclipse	Nomad	Settings	Advanced	Cloud Migration
13	6	6	6	6	6	6
7	0	0	0	0	0	0
5	5	5	5	5	5	5
4	3	3	3	3	3	3
9	8	8	8	8	8	8
38	22	22	22	22	22	22

**Database Properties Dialog:**

- Database
- Database Basics
- Info
- Printing
- Design
- Launch
- Full Text
- Advanced

# Properties Dialog - Document



The screenshot shows the HCL Nomad web interface. The main area displays a list of documents under the 'MarvelClient' workspace. A red box highlights a document entry: 'Ready-to-use for panagenda customers and HCL Nomad'. A red arrow points from this entry to a 'Properties Dialog - Document' panel on the right side of the screen. The dialog shows document details, including a list of document IDs.

#	Active	Priority	Type	Dev.	Plat.	Who	When	Last modified UTC+SEQ
13	6		Demo					
7	0		Hybrid/Migration					
5	5		Roaming					
4	3		Ready-to-use for MarvelClient Essentials					
9	8		Ready-to-use for panagenda customers and HCL Nomad					
		1,500,000,000	Page				20190918T1161434Z0030	
		n/a					20220915T140544Z0100	
		n/a					20220915T154415Z0102	
		n/a					20180929T132739Z0090	
		3,000,000,000					20180929T132854Z0222	
3	3		Audit/Monitoring					
1	1		Performance Monitoring					

Document

Document Info

Fields

Printing

Security

Meta

Document IDs

ID

OFB2BDC3CB:D52DF34D  
ONC1258640:0038C5A2  
SDC1258640:0038D4C7-  
SN00000002  
DBC12586FC:0028CCA9  
NT0000279A

# HCL Nomad Web – current releases notes (cont.)

## Fixes

### 1.0.9

Issue Identifiers	Defect Article	Details
NWASM-5045	KB0107486	Attachments are not being searched when including attachments for Full Text Indexing when creating a local replica
NWASM-5273	KB0107475	Text alignment issues for pre-formatted text in drop-down menus and list boxes
NWASM-5274	KB0107472	Drop-down menu positioning in dialogs is incorrect
NWASM-5275	KB0107492	Field with "Native OS Style" with "allow multiple lines" disabled allows newlines
NWASM-5292	KB0105359	Combo box on a layer steals clicks intended for other components
NWASM-5339	KB0107490	The scroll bar for a tabbed table with embedded views on a dialog is shown below the table
NWASM-5364	KB0107504	Change password menu option should only be available if Nomad Shared Login is disabled
NWASM-5390	KB0107485	Quick Find and then change category chops search text to one character
NWASM-5440	KB0107487	File name containing & cannot be opened
NWASM-5456	KB0106509	Date fields not displayed the same way in Notes and Nomad for web browsers
NWASM-5511	KB0106416	Password field with Native OS style doesn't mask the characters
NWASM-5512	KB0107471	Behavior of "Dialog List" Field on Nomad for web browsers is not similar to that of Notes Client
NWASM-5604	KB0106415	IME does not work in native input controls if the controls are on dialogs
NWASM-5605	KB0106594	File truncated error attaching multiple files with the same name
NWASM-5614	KB0106403	Firefox "View Saved Logins" pop up seen for all text fields if a password field is rendered anywhere on the page
NWASM-5615	KB0106411	When in a password field, tab is added to the input string rather than navigating between fields
NWASM-5631	KB0106407	NotesUIWorkspace.SaveFileDialog filter string may appear corrupted for non-ASCII characters
NWASM-5654	KB0106410	NotesUIWorkspace.SaveFileDialog does not appear if no filter is provided
NWASM-5659	KB0106408	Crash when reopening a document with a bitmap as the background of the form
NWASM-5694	N/A	Documentation incorrectly stated that LotusScript Lock and Unlock were unsupported when they are supported.
NWASM-5710	KB0107011	IME in dialogs does not work for the first character
NWASM-5725	KB0106762	Cannot save a file with non-ASCII characters using LotusScript
NWASM-5727	KB0106760	Unable to attach a file with a comma in the file name
NWASM-5732	KB0106936	Diagonal line is drawn across a button when highlighted
NWASM-5756	KB0107422	Nomad client setups through Nomad server on Domino fail when the mail server name includes non-ASCII characters



## Downloads

HCL\_Nomad\_Web\_1.0x

Files    Download Log    Notification Log

Download Selected Files

9 File(s)

<input type="checkbox"/>	+	File Description	File Size	File Added	File Name
<input type="checkbox"/>	+	HCL Nomad for web browsers 1.0.8 for Safelinx	137.25MB	May 24, 2023	<a href="#">HCL_Nomad_web_1.0.8_20230519-4788_for_HCL_SafeLinx.zip</a>
<input type="checkbox"/>	+	HCL Nomad for web browsers 1.0.9 for Safelinx	162.98MB	Sep 14, 2023	<a href="#">HCL_Nomad_web_1.0.9_20230911-5325_for_HCL_SafeLinx.zip</a>
<input type="checkbox"/>	+	HCL Nomad for web browsers 1.x release notes	177.34KB	May 21, 2021	<a href="#">HCL_Domino_Nomad_web_1.0.x_Release_Notes.pdf</a>
<input type="checkbox"/>	+	HCL Nomad server 1.0.8 for Domino 12.0.1 Linux (includes Nomad web browser client)	176.23MB	May 24, 2023	<a href="#">nomad-server-1.0.8-for-domino-1201-linux.tgz</a>
<input type="checkbox"/>	+	HCL Nomad server 1.0.8 for Domino 12.0.1 Windows (includes Nomad web browser client)	161.74MB	May 24, 2023	<a href="#">nomad-server-1.0.8-for-domino-1201-win64.zip</a>
<input type="checkbox"/>	+	HCL Nomad server 1.0.8 for Domino 12.0.2 Linux (includes Nomad web browser client)	176.24MB	May 24, 2023	<a href="#">nomad-server-1.0.8-for-domino-1202-linux.tgz</a>
<input type="checkbox"/>	+	HCL Nomad server 1.0.8 for Domino 12.0.2 Windows (includes Nomad web browser client)	161.74MB	May 24, 2023	<a href="#">nomad-server-1.0.8-for-domino-1202-win64.zip</a>
<input type="checkbox"/>	+	HCL Nomad server 1.0.9 for Domino 12.0.2 Linux (includes Nomad web browser client)	203.27MB	Sep 14, 2023	<a href="#">nomad-server-1.0.9-for-domino-12.0.2-linux.tgz</a>
<input type="checkbox"/>	+	HCL Nomad server 1.0.9 for Domino 12.0.2 Windows (includes Nomad web browser client)	188.79MB	Sep 14, 2023	<a href="#">nomad-server-1.0.9-for-domino-12.0.2-win64.zip</a>



# HCL Nomad Web – my.hcltechsw.com (beta)

HCLSoftware Give feedback CA

My HCLSoftware Downloads panagenda



Home > Downloads > HCL Domino > Nomad

## HCL Nomad

1.0.x

Name	Released	↓
1.0.8	May 24, 2023	
1.0.7	Mar 8, 2023	

### Supporting Resources

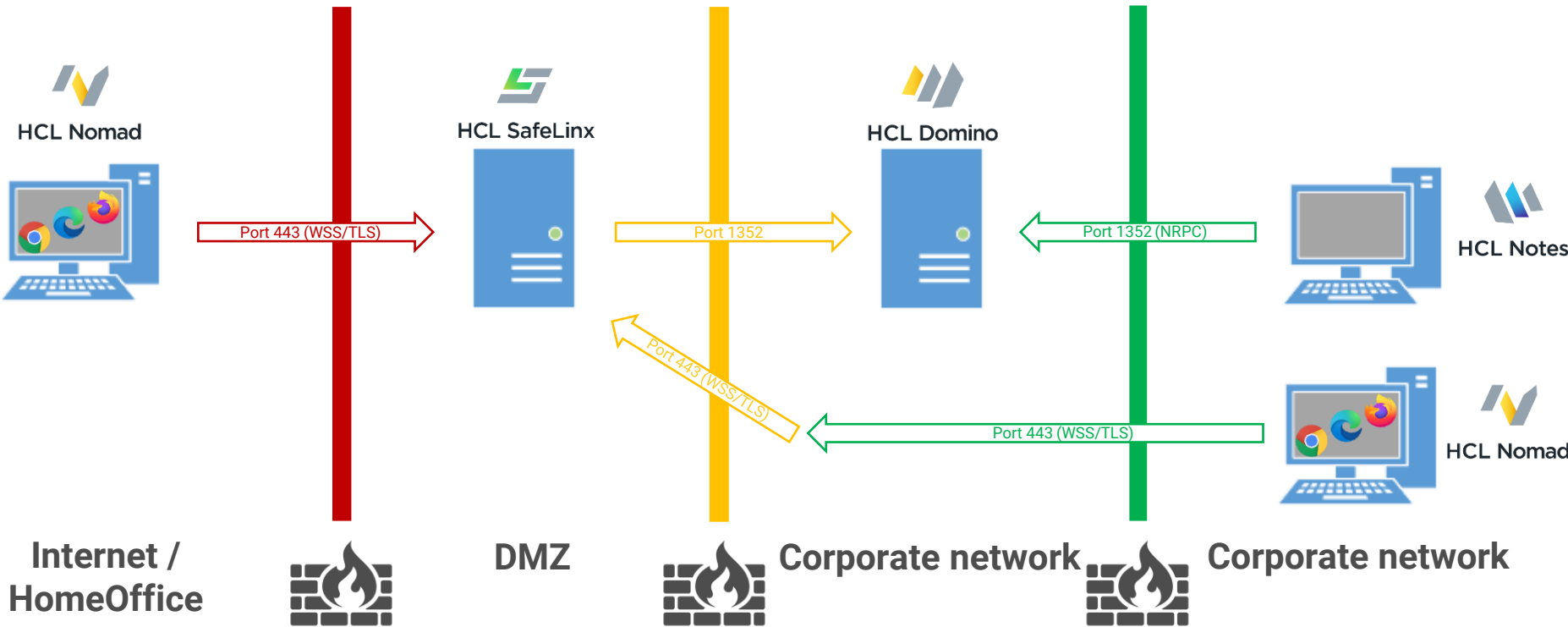
- ◆ [Nomad Product Documentation](#) 
- ◆ [Nomad Community Forum](#) 

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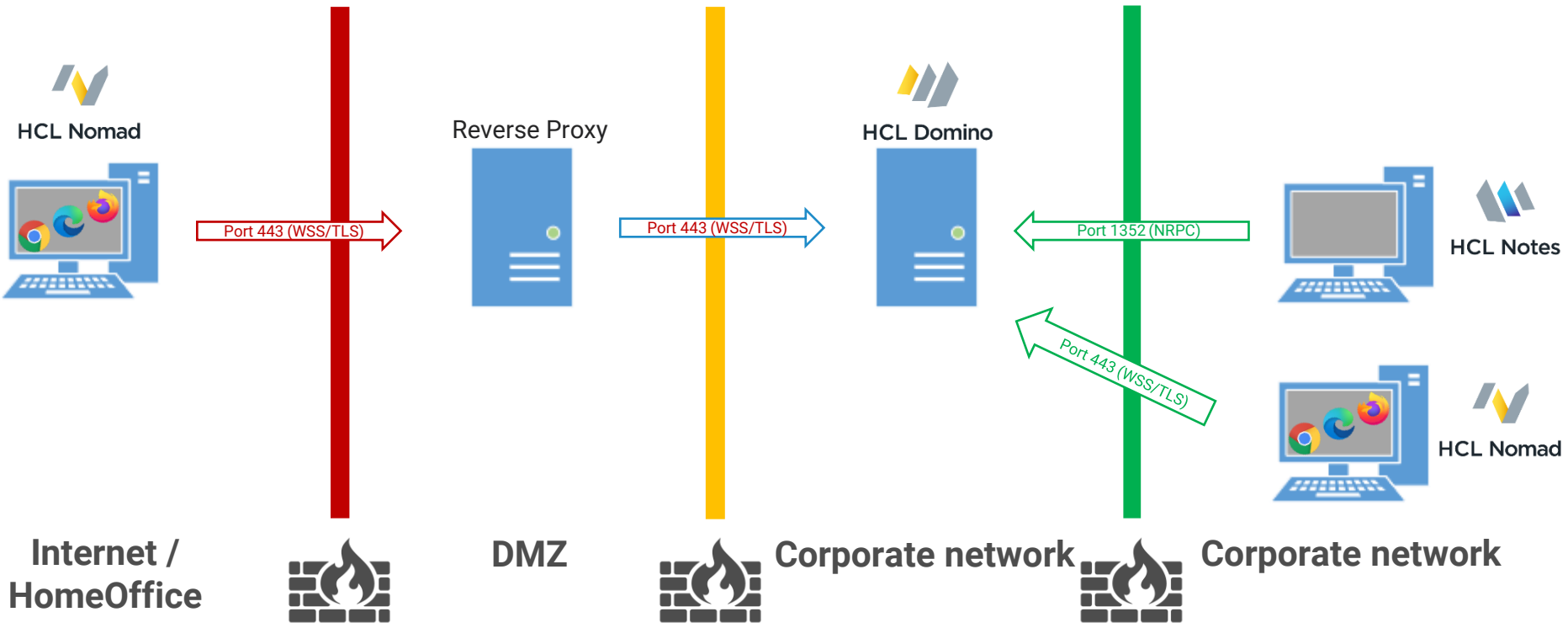


**Infrastructure overview & Installation**

# HCL Nomad Web using SafeLinx



# HCL Nomad server for Domino



# HCL Nomad server for Domino

## Quick Checklist / prerequisites before installation

1. Download “HCL Nomad server for Domino”
2. Domino 12.0.1 or 12.0.2\* (Windows or Linux)
3. ID Vault needs to be enabled (ID’s must be available in the Vault)
4. TLS certificate for Nomad server for Domino



\* HCL Nomad Server for Domino 1.0.9 is currently only available for Domino 12.0.2

# HCL Nomad server for Domino

## TLS Certificate

Do you need a trusted / valid TLS certificate for Nomad Web?






→ **YES!**

Can you use the “new” Certificate Manager for configuring TLS certificates?

→ **YES!**



# HCL Nomad server for Domino

Name	Date modified	Type	Size
 HCL_Nomad_web_1.0.8_20230519-4788_for_HCL_SafeLinux.zip	14.06.2023 12:43	Compressed (zipped) Folder	140 549 KB
 nomad-server-1.0.8-for-domino-1201-linux.tgz	14.06.2023 12:47	TGZ File	180 463 KB
 nomad-server-1.0.8-for-domino-1201-win64.zip	14.06.2023 12:47	Compressed (zipped) Folder	165 626 KB
 nomad-server-1.0.8-for-domino-1202-linux.tgz	14.06.2023 12:46	TGZ File	180 468 KB
 nomad-server-1.0.8-for-domino-1202-win64.zip	14.06.2023 12:46	Compressed (zipped) Folder	165 626 KB

## Installation

1. Pick one or more 1201 Fix Pack 1 or higher Domino server to install on.
2. Download and extract the corresponding zip/tar file for your platform into the Domino program directory.



### Note:

- The default directory for Linux is `/opt/hcl/domino/notes/latest/linux/`.
- The default directory for Windows is `C:\Program Files\HCL\Domino`.



# HCL Nomad server for Domino

## Installation (copy + unzip)

Name	Größe	Gepackte Größe	Geändert am	Zugriffsrechte	Besitzer	Gruppe	Link	Ha
license	188 568	188 928						
nomad-files	141 397 664	141 461 504	2022-09-21 20:06	drwxr-xr-x	0	jenkins		
nomad	43 278 104	43 278 336	2022-09-19 10:29	-rwxr-xr-x				
nwsp-linux	69 482 897	69 483 008	2022-09-21 20:06	-rwxr-xr-x	0	jenkins		



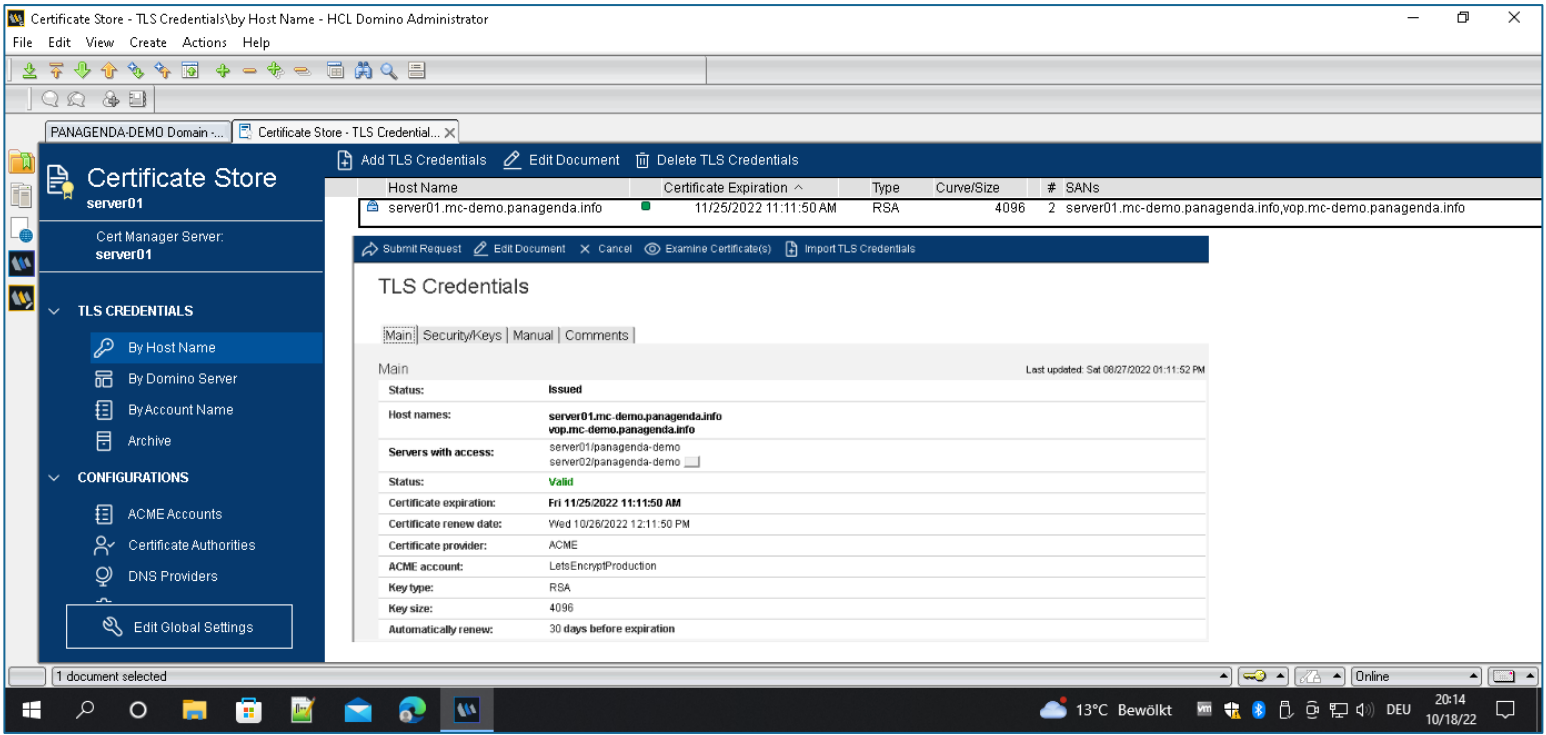
```
-rwxr-xr-x 1 root root 43278104 Sep 19 10:29 nomad
drwxr-xr-x 7 root notes 4096 Sep 21 20:06 nomad-files
-rwxr-xr-x 1 root root 109384 Nov 22 2021 notesei.dcx
-rwxr-xr-x 1 root root 3430 Nov 22 2021 notes.png
-rwxr-xr-x 1 root root 14590 Nov 22 2021 notes_ps.awk
-rwxr-xr-x 1 root root 19664 Nov 22 2021 nsd2xml
-rwxr-xr-x 1 root root 293242 Mar 30 2022 nsd.sh
-rwxr-xr-x 1 root notes 69482897 Sep 21 20:06 nwsp-linux
```

default directory for Linux is /opt/hcl/domino/notes/latest/linux/  
default directory for Windows is C:\Program Files\HCL\Domino



# HCL Nomad server for Domino

## Check the TLS certificate



The screenshot shows the HCL Domino Administrator interface. The left sidebar contains a navigation tree with 'Certificate Store' expanded to show 'server01'. Under 'server01', there are sections for 'Cert Manager Server: server01', 'TLS CREDENTIALS', and 'CONFIGURATIONS'. The 'TLS CREDENTIALS' section is selected, showing a list of credentials. The main pane displays the details for a specific TLS credential.

Host Name	Certificate Expiration	Type	Curve/Size	# SANs
server01.mc-demo.panagenda.info	11/25/2022 11:11:50 AM	RSA	4096	2 server01.mc-demo.panagenda.info,vop.mc-demo.panagenda.info

**TLS Credentials**

Main: Security/Keys | Manual | Comments

Main Last updated: Sat 08/27/2022 01:11:52 PM

Status: **Issued**

Host names: **server01.mc-demo.panagenda.info**  
**vop.mc-demo.panagenda.info**

Servers with access: server01|panagenda-demo  
server02|panagenda-demo

Status: **Valid**

Certificate expiration: **Fri 11/25/2022 11:11:50 AM**

Certificate renew date: **Wed 10/26/2022 12:11:50 PM**

Certificate provider: ACME

ACME account: LetsEncryptProduction

Key type: RSA

Key size: 4096

Automatically renew: 30 days before expiration

# HCL Nomad server for Domino

## Notes.ini

If you use the (new) CertMgr with Domino you need to add a notes.ini parameter. The value must match with one of your configured TLS certificates in the CertMgr database

```
NOMAD_WEB_HOST=domino.acme.com
```

# HCL Nomad server for Domino

## Start HCL Nomad server task

Console commad: **load nomad**

```
load nomad
[526278:000143-00007F9EA37EF700] 06/14/2023 12:30:52 PM Remote console command issued by christoph adler/panagenda: load nomad
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:52 PM Nomad: Build 0.15.7-1+ND12000101
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:54 PM Nomad: Server initializing
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:54 PM Nomad: Listening on 127.0.0.1:7125, CLIENT-IS-SERVER
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:54 PM Nomad: Note: Requested port was 0, Actual listen port is 7125
[690724:000002-00007FF3D93D27C0] 06/14/2023 12:30:54 PM Nomad: Server initialized
```

Check Task, console commad: **sh tasks**

```
[526278:000010-00007F9F1C88D700] Nomad Listen for connect requests on 0.0.0.0:9443
```

# HCL Nomad server for Domino

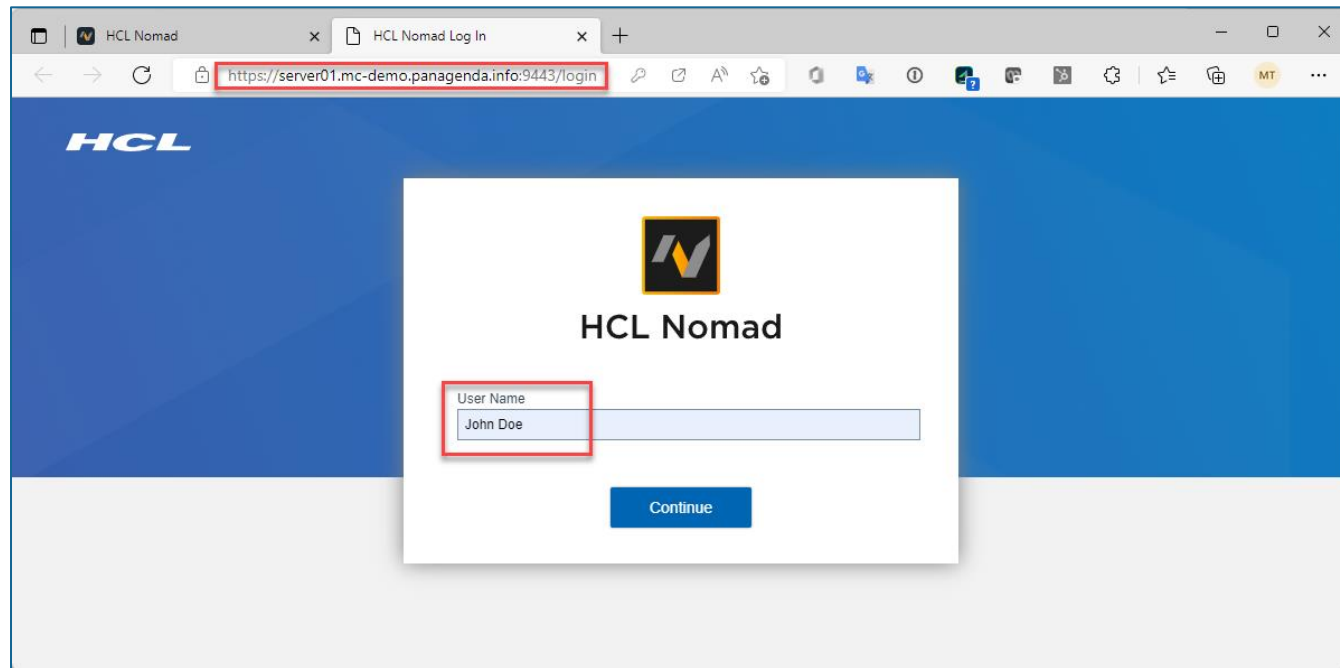
```
top - 18:00:33 up 207 days, 6:50, 2 users, load average: 0.04, 0.08, 0.03
Tasks: 137 total, 1 running, 136 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.6 us, 0.3 sy, 0.0 ni, 98.8 id, 0.0 wa, 0.1 hi, 0.1 si, 0.1 st
MiB Mem : 7768.1 total, 5638.2 free, 1166.9 used, 963.0 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used. 5655.5 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
18571	notes	20	0	1088.6m	69.3m	50.9m	S	0.3	0.9	4:35.73	clrepl
16584	notes	20	0	13.6m	3.1m	1.7m	S	0.0	0.0	0:00.01	rc_domino_scrip
16642	notes	20	0	2691.0m	260.1m	175.5m	S	0.0	3.3	4:16.16	server
16679	notes	20	0	623.3m	48.2m	28.5m	S	0.0	0.6	0:14.11	logasio
16695	notes	20	0	1155.6m	169.3m	147.9m	S	0.0	2.2	3:48.07	event
17383	notes	20	0	630.3m	75.4m	55.8m	S	0.0	1.0	0:13.37	dircat
17386	notes	20	0	630.6m	158.0m	138.3m	S	0.0	2.0	0:26.19	replica
17388	notes	20	0	827.1m	63.7m	42.7m	S	0.0	0.8	1:23.50	router
17390	notes	20	0	893.2m	100.1m	75.5m	S	0.0	1.3	0:29.57	update
17394	notes	20	0	629.6m	66.7m	45.8m	S	0.0	0.9	0:17.93	amgr
17398	notes	20	0	758.9m	255.6m	231.4m	S	0.0	3.3	1:51.35	adminp
17400	notes	20	0	629.3m	70.5m	51.2m	S	0.0	0.9	0:22.80	sched
17401	notes	20	0	622.8m	45.9m	27.1m	S	0.0	0.6	0:15.13	calconn
17402	notes	20	0	627.2m	67.5m	47.7m	S	0.0	0.9	0:23.16	rnrmgr
17410	notes	20	0	4421.0m	243.1m	109.7m	S	0.0	3.1	2:13.45	http
17411	notes	20	0	899.6m	233.1m	208.1m	S	0.0	3.0	0:57.05	ldap
17412	notes	20	0	693.4m	46.9m	29.0m	S	0.0	0.6	0:26.44	daosmgr
17448	notes	20	0	689.0m	87.4m	66.4m	S	0.0	1.1	0:28.97	certmgr
17567	notes	20	0	636.3m	124.8m	102.1m	S	0.0	1.6	0:26.92	amgr
18345	notes	20	0	627.1m	65.1m	46.1m	S	0.0	0.8	0:15.80	clbdbdir
40592	notes	20	0	1236.4m	71.4m	47.9m	S	0.0	0.9	0:03.35	nomad
40606	notes	20	0	710.7m	73.8m	32.9m	S	0.0	1.0	0:01.28	nwsp-linux
40614	notes	20	0	911.7m	85.0m	33.1m	S	0.0	1.1	0:01.85	nwsp-linux
40618	notes	20	0	839.5m	74.3m	33.0m	S	0.0	1.0	0:01.46	nwsp-linux
40621	notes	20	0	913.0m	84.2m	33.2m	S	0.0	1.1	0:01.70	nwsp-linux
40627	notes	20	0	781.0m	84.5m	33.0m	S	0.0	1.1	0:01.73	nwsp-linux
3893960	notes	20	0	918.7m	92.0m	33.3m	S	0.0	1.2	0:17.87	nwsp-linux
3893966	notes	20	0	920.3m	93.8m	33.6m	S	0.0	1.2	0:38.37	nwsp-linux

# HCL Nomad server for Domino

## Open HCL Nomad and first login

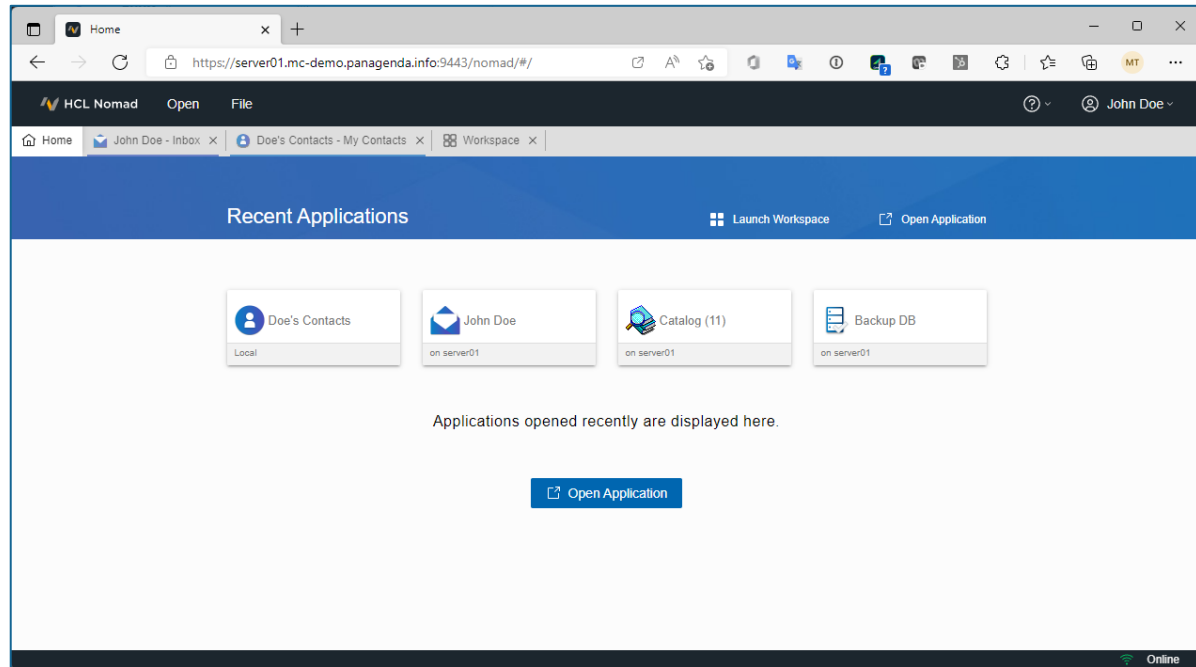
The Nomad server is listening on Port: 9443 in default



# HCL Nomad server for Domino

## Open HCL Nomad and first login

The Nomad server is listening on Port: 9443 in default



# HCL Nomad server for Domino

## Configuration of the Nomad server

To change default settings, you need to create a YAML file in the Domino Data named:

`nomad-config.yml`

Here you can configure:

- Ports
- IP Addresses
- Certificates
- Cookies
- Refresh rates









**Best Practices for HCL Nomad Web**

# How to configure Port 443 on Linux based Domino servers

## Challenge:

Binding ports lower than 1024 is prohibited by default.  
(This is NodeJS standard security)

## Solution:

You need to give the NodeJS task the right to bind to ports lower than 1024

# How to configure Port 443 on Linux based Domino servers

## Step 1:

Nomad must not run. Execute the following line to set the correct permissions

```
setcap 'cap_net_bind_service=+ep' /opt/hcl/domino/notes/latest/linux/nwsp-linux
```

## Step 2:

Create a “nomad-config.yml” file in the Data Directory with the following two entries

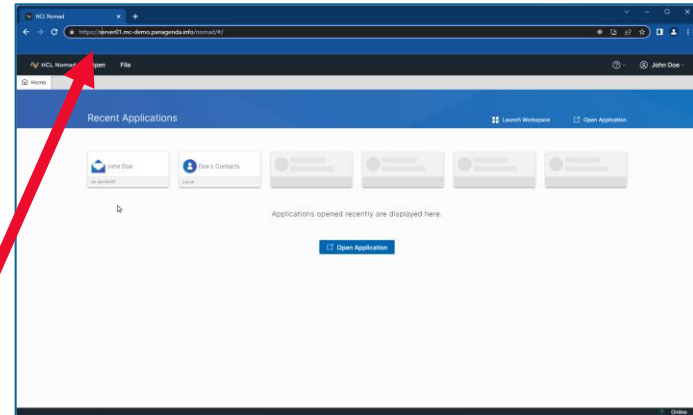
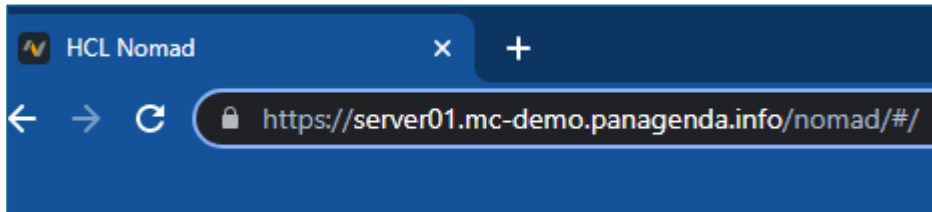
```
GNU nano 2.9.8 nomad-config.yml
host: '0.0.0.0'
port: 443
```

# How to configure Port 443 on Linux based Domino servers

## Step 3:

Start nomad on Domino. (load nomad)

```
> load nomad
> [926809:000002-00007F24F95937C0] 12/06/2022 07:18:12 PM Nomad: Build 0.15.5-19+ND12000101
[926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Server initializing
[926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Listening on 127.0.0.1:2801, CLIENT-IS-SERVER
[926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Note: Requested port was 0, Actual listen port is 2801
[926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Server initialized
```



**Browsers instead of installed Notes Clients**

**Cache**

# Browser Profiles

# CPU & Memory consumption



# Performance & sizing

## VDI / Citrix / VMware

**Browsers Task Manager**  
**<shift> + <esc>**

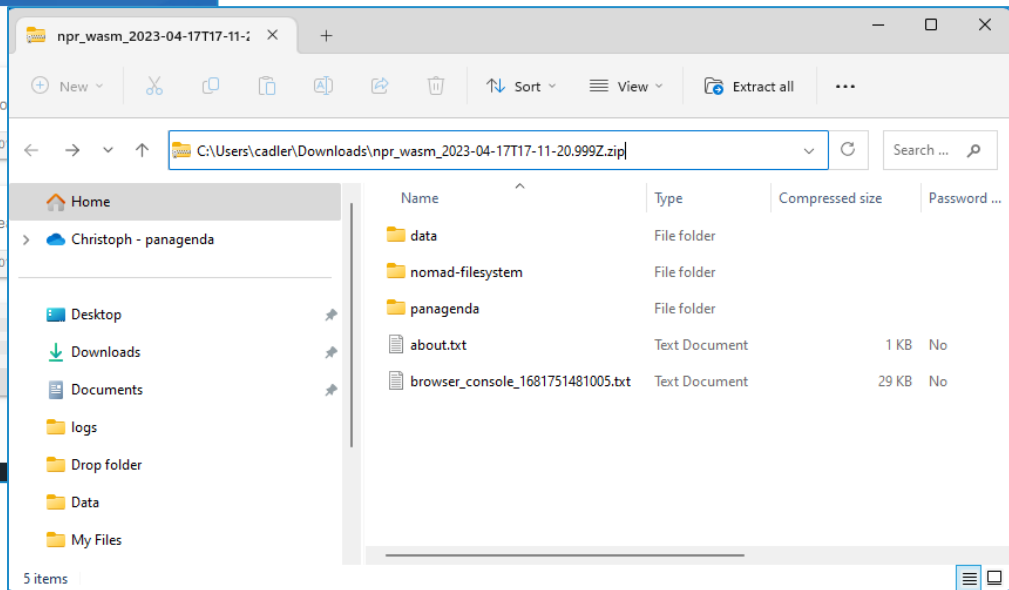
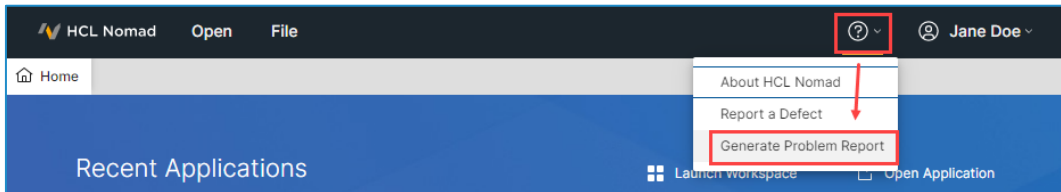
# Developer Tools

## “console”

# Log files

# Where to find log files?

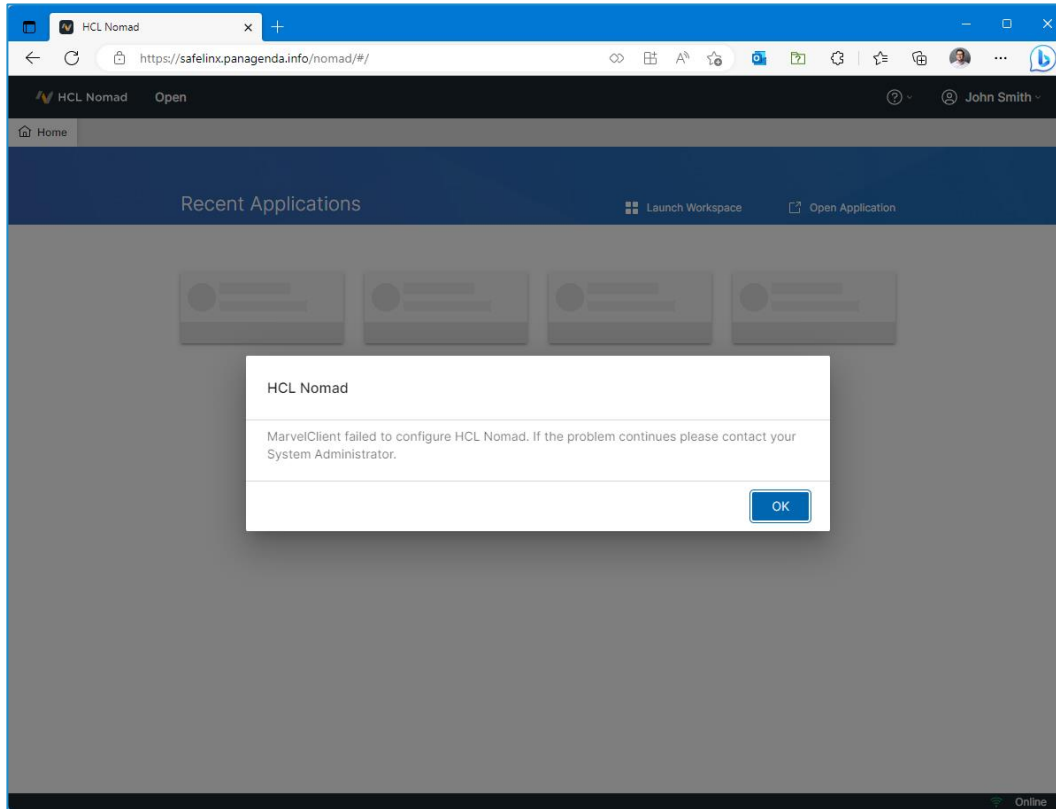
## ➤ Chrome, Edge & Firefox



**BUT**

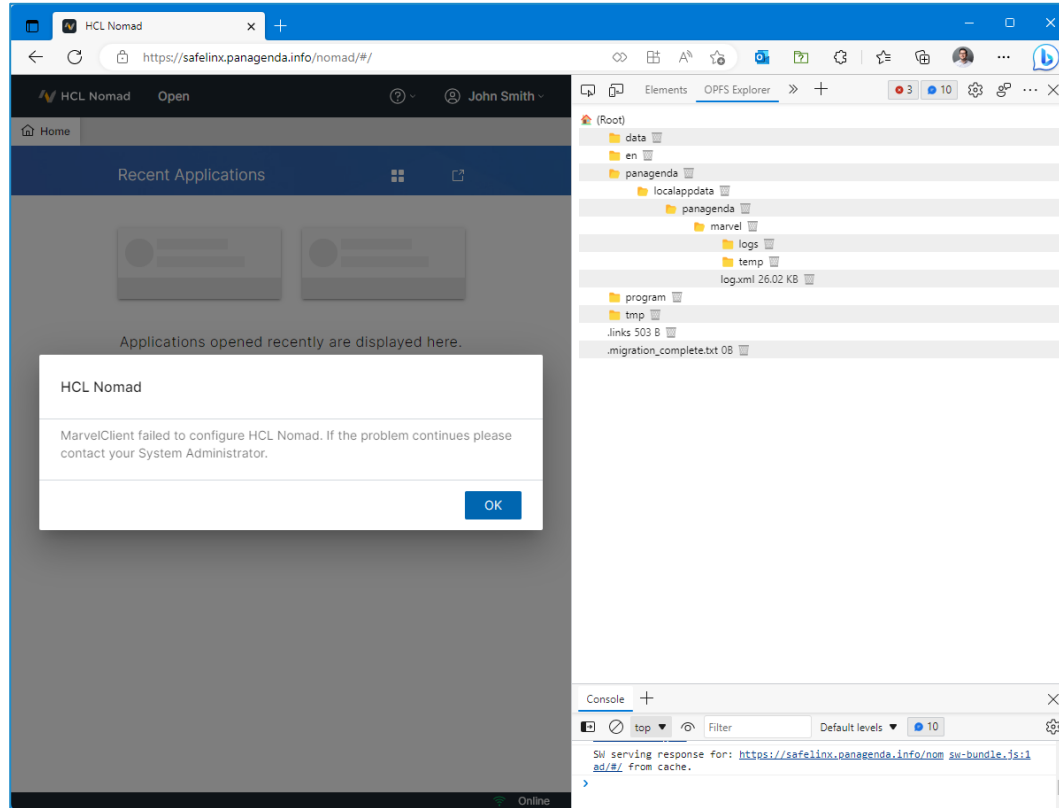
# Example where logs couldn't help

➤ What if you can't use "Generate Problem Report" (issue during start-up) ?



# Troubleshooting/log files – 4. Browsers (cont.)

## ➤ What if you can't use “Generate Problem Report” (issue during start-up) ?





# Troubleshooting/log files – 4. Browsers (cont.)

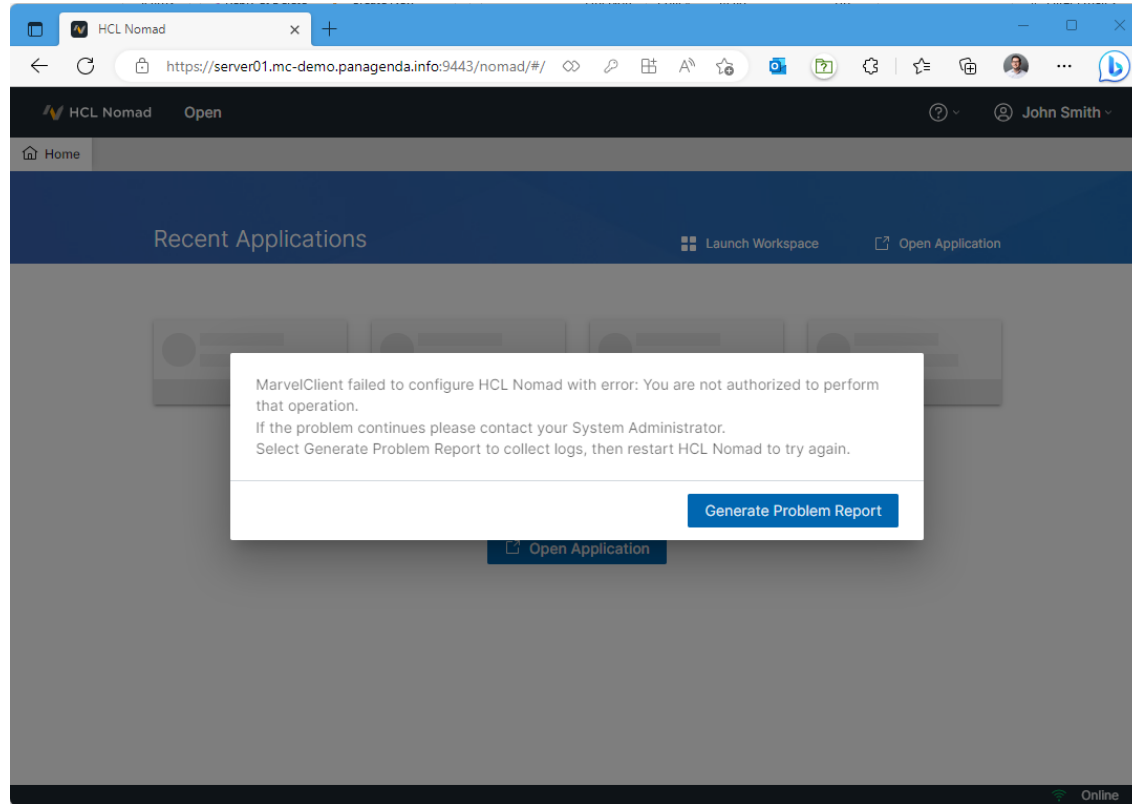


## ➤ What if you can't use "Generate Problem Report" (issue during start-up) ?

```
server01/panagenda-demo!!panagenda\panagenda.nsf; NDError#: 16643 - File does not exist</m></le>
156 <le><t>41268</t><l>2</l><i>2</i><f>AM::ActionMan_Impl::VROpenSourceView::TryDB</f><m>trying to open config database:
'CN=server01/0=panagenda-demo!!panagenda\pmc_config.nsf'</m></le>
157 <le><t>41269</t><l>2</l><i>2</i><f>Open</f><m>opening database: (00000000:00000000)
'CN=server01/0=panagenda-demo!!panagenda\pmc_config.nsf'</m></le>
158
159
160 <le><t>41321</t><l>0</l><i>2</i><c>ERROR</c><f>AM::ActionMan_Impl::VROpenSourceView::TryDB</f><m>could not open: GetDatabase: could not
get database 'CN=server01/0=panagenda-demo!!panagenda\pmc_config.nsf': Open: could not open database
'server01/panagenda-demo!!panagenda\pmc_config.nsf; NDError#: 582 - You are not authorized to perform that operation</m></le>
161
162
163 <le><t>41323</t><l>0</l><i>2</i><c>ERROR</c><f>RunViewreader</f><m>error while downloading new actions from config db: VROpenSourceView:
could not locate a config db</m></le>
<le><t>41324</t><l>2</l><i>2</i><m>sending BUSY_MESSAGE_MARVELCLIENT_POSTSETUP</m></le>
164 <le><t>41348</t><l>2</l><i>2</i><m>-----</m></le>
165 <le><t>41349</t><l>2</l><i>2</i><m>-----</m></le>
166 <le><t>41350</t><l>2</l><i>2</i><f>Execute</f><m>run section afterloginbeforesync</m></le>
167 <le><t>41351</t><l>2</l><i>2</i><f>Execute</f><m>executing 0 actions</m></le>
168
```

# Troubleshooting/log files – 4. Browsers (cont.)

➤ **By the way: This issue is already fixed since Nomad Web 1.0.7**



# OPFS Explorer – Browser plugin

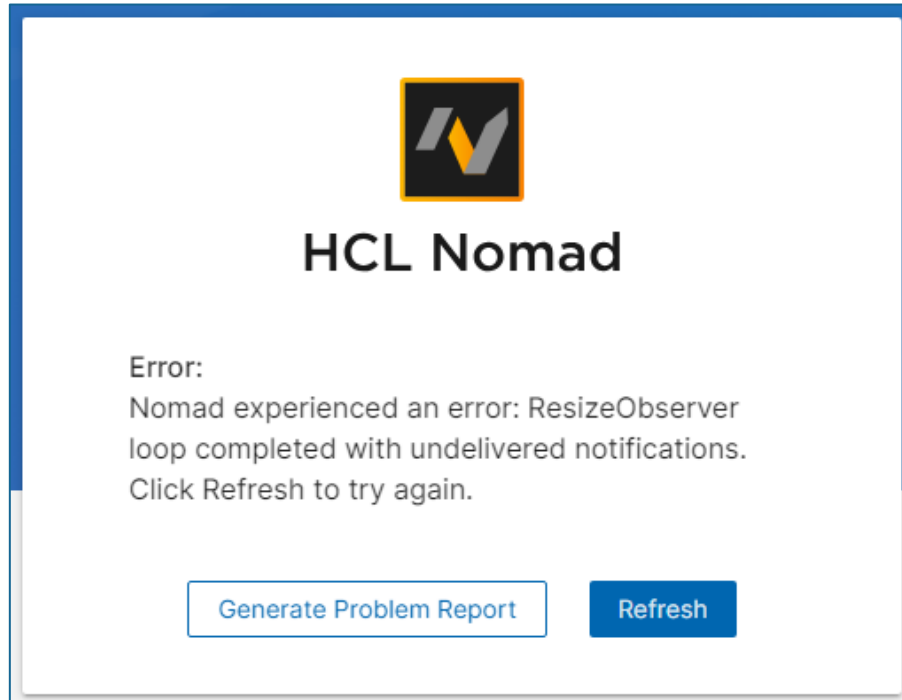
OPFS Explorer is a Chrome DevTools extension that allows you to explore the Origin Private File System (OPFS) of a web application.



<https://tinyurl.com/OPFSExplorer>

# Possible HCL Nomad Web 1.0.9 issue with LastPass

- If you use LastPass & HCL Nomad Web 1.0.9 in Chrome/Edge, you might see this here – after ID-Vault password prompt on initial start:



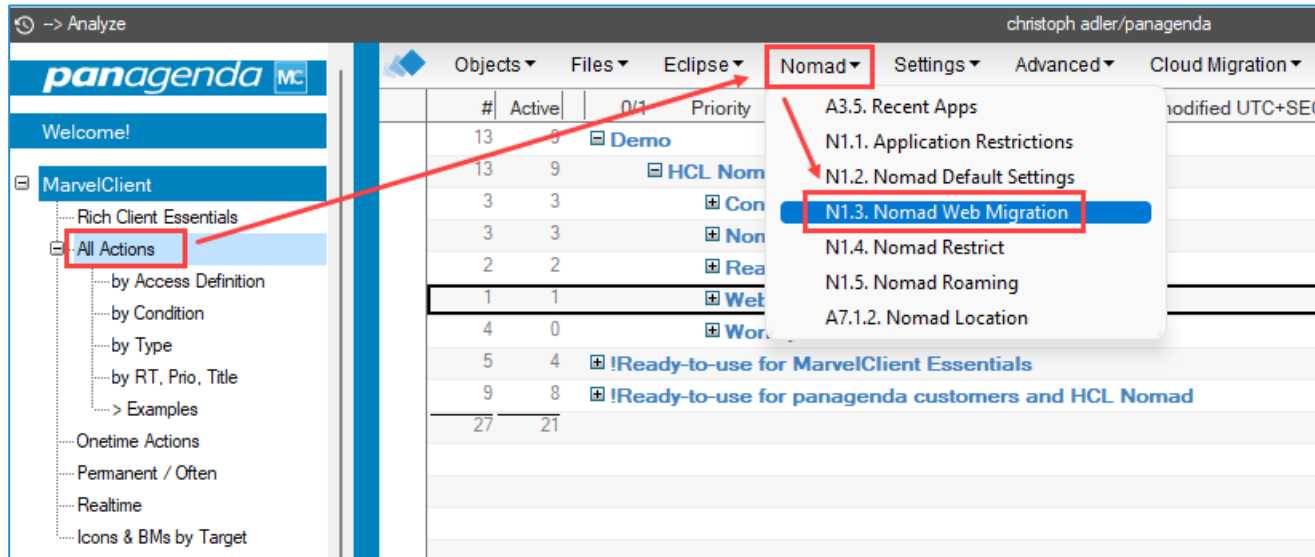
**From NOTES to NOMAD WEB**

# MarvelClient – FREE Nomad Web Migration

- This functionality is included in CCB  
(free for all customers with active HCL maintenance)
- **Requirement**  
Every user **must** have a user profile / upload document in the MarvelClient Analyze database (including bookmark.xml, desktop.xml and notes.ini) and **must not** be a Domino Roaming user.

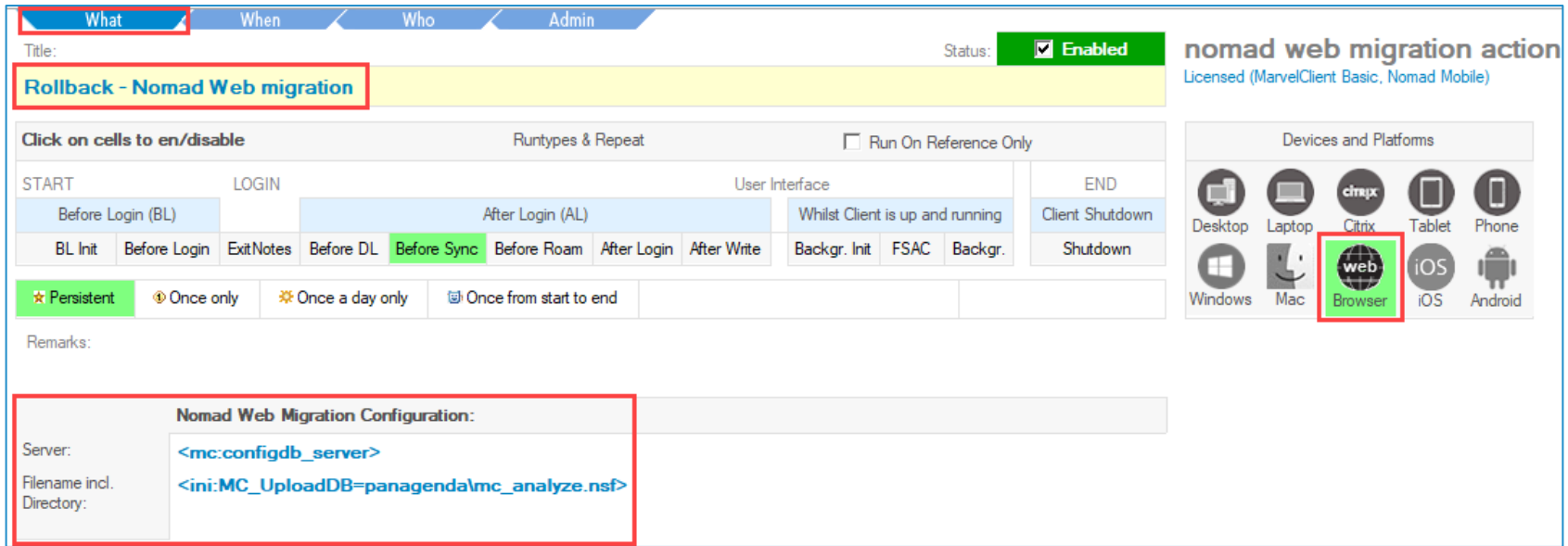
# MarvelClient – Nomad Web Migration (cont.)

- A single and simple MarvelClient action brings happiness for your users



# MarvelClient – Nomad Web Migration (cont.)

- A single and simple MarvelClient action brings happiness for your users



The screenshot shows the configuration interface for a MarvelClient action named "nomad web migration action". The interface is divided into several sections:

- Title:** "Rollback - Nomad Web migration" (highlighted with a red box). Status is "Enabled".
- Click on cells to en/disable:** A grid of cells for configuring the action's behavior. The "Before Sync" cell is highlighted in green. Other cells include "Before Login (BL)", "After Login (AL)", "Whilst Client is up and running", "Client Shutdown", "Shutdown", "Backgr. Init", "FSAC", and "Backgr.".
- Runtypes & Repeat:** Includes a checkbox for "Run On Reference Only" and a row of repeat options: "Persistent" (checked), "Once only", "Once a day only", and "Once from start to end".
- Remarks:** A section for additional notes.
- Nomad Web Migration Configuration:** A section for configuration details, including:
  - Server: `<mc:configdb_server>`
  - Filename incl.: `<ini:MC_UploadDB=panagenda\mc_analyze.nsf>`
  - Directory:
- Devices and Platforms:** A grid of icons representing different devices and platforms. The "Browser" icon is highlighted with a red box. Other icons include Desktop, Laptop, Citrix, Tablet, Phone, Windows, Mac, iOS, and Android.



**DEMO**

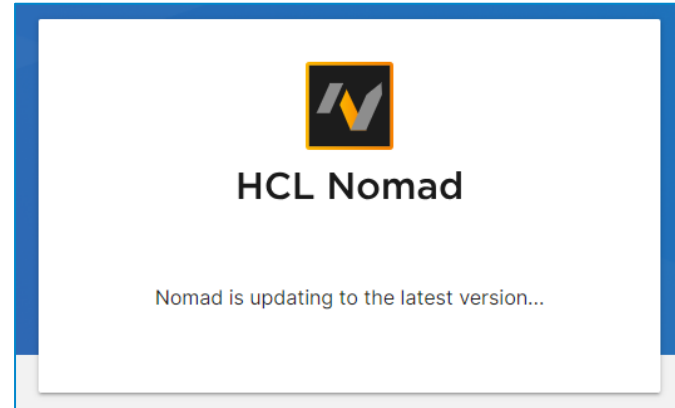
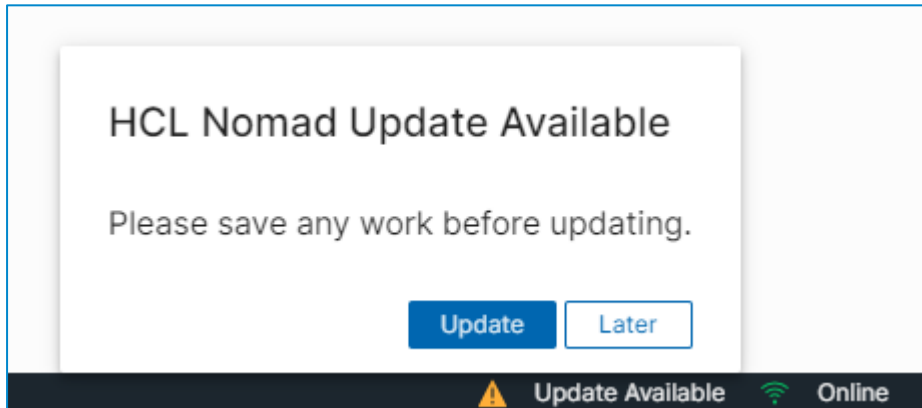
if we have enough time 😊

A white step ladder is positioned on the left side of a white, three-dimensional staircase that recedes into the background. The scene is brightly lit, creating soft shadows and a clean, minimalist aesthetic.

**Bonus**

# Questions we got asked at recent conferences

1. How can I use NomadWeb if my Domino server(s) run on AIX or System i?
2. How can I upgrade the local Nomad 'installations' in case of a new version is available?





## Questions we got asked at recent conferences – cont. *panagenda*

3. We are using Microsoft Outlook. If we get document links from Domino Applications, Windows asks me with which Application the link should be opened. Can we configure it that Nomad Web will be used for those links?

→ see next slide



# Questions we got asked at recent conferences – cont.

## Example for Microsoft Edge

```
1 Windows Registry Editor Version 5.00
2 [HKEY_CURRENT_USER\SOFTWARE\Classes\notes]
3 "URL Protocol"=""
4 @=""
5
6 [HKEY_CURRENT_USER\SOFTWARE\Classes\notes\shell]
7
8 [HKEY_CURRENT_USER\SOFTWARE\Classes\notes\shell\open]
9
10 [HKEY_CURRENT_USER\SOFTWARE\Classes\notes\shell\open\command]
11 @="explorer.exe \"%web+%1\""
12
13
14 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes]
15 "URL Protocol"=""
16
17 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\DefaultIcon]
18 @="C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe,0"
19
20 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\shell]
21 @="open"
22
23 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\shell\open]
24
25 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\shell\open\command]
26 @="\"C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe\" --single-argument %1"
27
28 [HKEY_CURRENT_USER\SOFTWARE\Classes\web+notes\shell\open\ddeexec]
29 @=""
30
```



# DANKE!



Your Feedback Matters to Us





**Marc Thomas**

Senior Solutions Architect &  
HCL Ambassador

*panagenda*

EPISODE #2

**07. November 2023**

# HCL Notes 14 Upgrades einfach gemacht – von A bis Z

Ein (Hands-on) Online Workshop

Jetzt Registrieren >



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