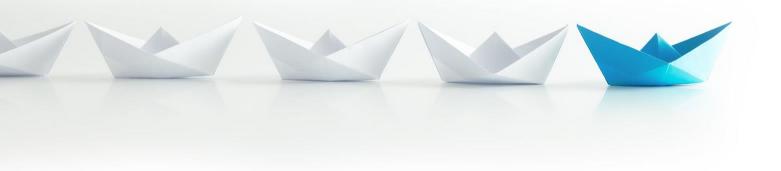


How to Bring HCL Nomad Web and Domino Together Without SafeLinx

December 13th 2022



Make Your Data Work For You

Host & Speaker







@panagenda

Head of Marketing and Training panagenda



Christoph Adler @cadler80 Senior Consultant panagenda



Join the conversation using #NomadWeb #WithoutSafeLinx #Domino

Agenda



- Introduction What is HCL Nomad?
- Current Versions, Features and Requirements
- HCL Nomad Server for Domino
- Surprise ... and Q & A



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Nomad (mobile)

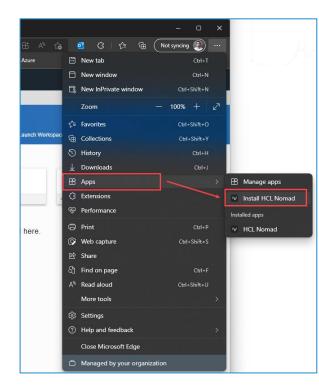
Nomad Web

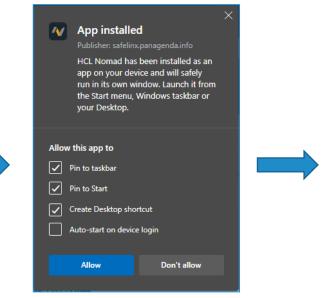
Official name "HCL Nomad for web browser"



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| | | | | | General | 🗙 3,000,000,001 📓 💿 👷 20180929113285420222 Desktopicon: Manage Mailfile icon on Page 1, top left |
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| | | | | | Access Definitions | ✓ 1.000 mi ⊕ ★ 20181100T09295020024 Set Path to MC Analyze (ini:MC_UploadDB) |
| | | | | | MarvelClient Upgrade | 🛷 4.199,999,991 👩 💿 🗴 20190918116144820390 BACKUP: Upload Audit / Monitoring Data into Analyze Database |
| | | | | | Configuration(s) | 1 1 Performance Monitoring |
| | | | | | Cinema Slides | A 251 🧟 e 🗴 201809291133024220020 Measure Latency to/from user's mailserver |
| | | | | | Cinema Resources | 10 15 |
| | | | | | Installers etc. | Marve/Client Config About |
| | | | | | | |

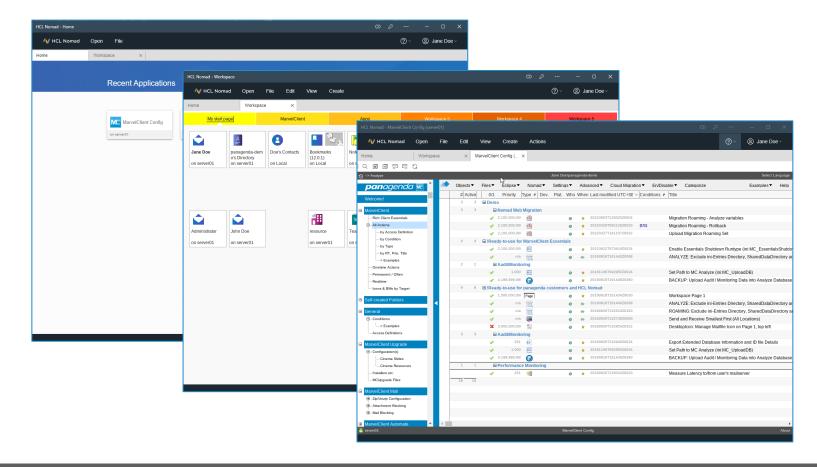














Current Versions, Features and Requirements

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- HCL Nomad server for Domino \rightarrow 1.0.6 (for Domino 12.0.1)
- HCL Nomad server for Domino \rightarrow 1.0.6 (for Domino 12.0.2)

- HCL Nomad for web browsers \rightarrow 1.0.6
- HCL SafeLinx \rightarrow 1.3.0.1

HCL Nomad Web 1.0.6 – New Features



What's new in HCL Nomad for web browsers

Release 1.0.6

- Domino Restyle updates:
 - · Navigators in the application are restyled.
 - Applications can choose to change their launch property to a standardized frameset. For more information, see Launch property features.

• panagenda MarvelClient updates in the Analyze Database:

Additional information is now returned from the browser and reported in the Analyze Database:

- browser name
- browser version
- os name
- os version
- · user agent string
- Nomad server on Domino on Domino 12.0.2:

Nomad server on Domino now runs on Domino 12.0.2 in addition to 12.0.1.

· Bug fixes.



Requirements (with SafeLinx)







Requirements (without SafeLinx)







Your new best friend \rightarrow the browser!



Only 64-bit desktop web browsers are supported

- Firefox 83 or higher \rightarrow no native PWA support since version 85
- Google Chrome 80 or higher \rightarrow (if >= v108, you need Nomad Web 1.0.6)
- Microsoft Edge 85 or higher





Your new best friend(s) → the "chrome/edge" browser(s)

Change in Chrome and Edge >= Version 108.x

https://developer.chrome.com/blog/new-in-chrome-108/

Here's what you need to know:

- It is easier to create adaptive UIs with new viewport size units.
- Color vector fonts now include support for variable fonts.
- The methods in the interface FileSystemSyncAccessHandle, part of the File System Access API, are now <u>synchronous</u>.
- And there's plenty more







Fixes

1.0.6

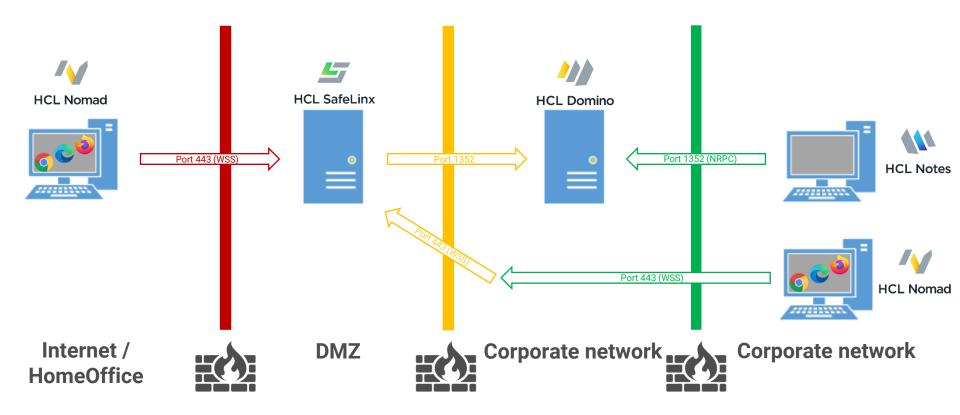
| Issue Identifiers | Details |
|--|---|
| NWASM-2465 | Russian: Customize This View: Fix for the dialog columns being too narrow. |
| NWASM-2466 | Russian: Customize This View: Fix the truncation of "Сортировать". |
| NWASM-2566, NWASM-4224, NWASM- 4426 | Update the Time Picker and Date Picker to fix multiple issues and improve usability. |
| NWASM-4191 | Add support for "Other" in the Open Application dialog to access Domino servers that are not pre-populated from the Workspace or other sources. |
| NWASM-4192 | Fix for field borders in table structures not being displayed correctly. |
| NWASM-4355 | When running in Japanese, display the \ character as the Yen character. |
| NWASM-4379 | Add files need to support an Include of Isconst.Iss. |
| NWASM-4382 | Update the notes:// readme with more information needed to get Firefox working for notes:// links. |
| NWASM-4505 | Fix for crashes when run on Google Chrome version 108 or Microsoft Edge version 108. |



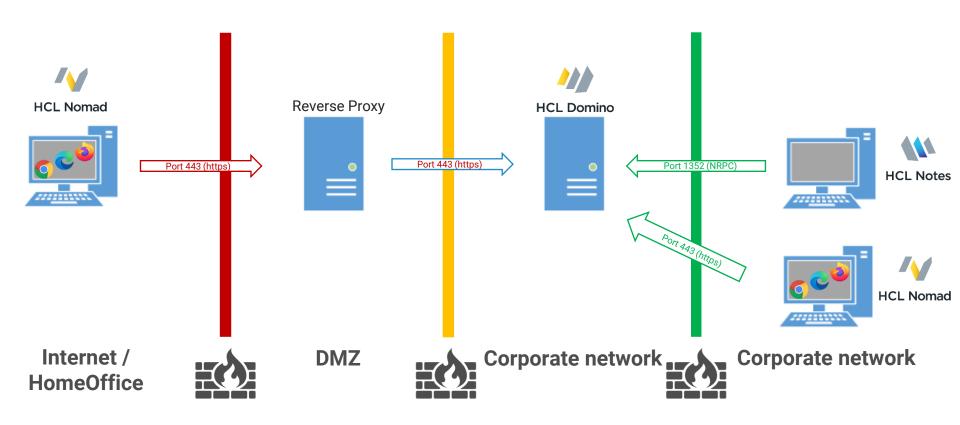


Make Your Data Work For You









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







TLS Certificate

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

 \rightarrow YES!

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

 \rightarrow YES!





https://help.hcltechsw.com/nomad/1.0_admin/nomadserver_domino.html

| 🔳 nomad-server-1.0.6-for-domino-1202-linux.tgz | 06.12.2022 13:29 | TGZ-Datei | 176.475 KB |
|--|------------------|------------------|------------|
| nomad-server-1.0.6-for-domino-1201-linux.tgz | 06.12.2022 13:29 | TGZ-Datei | 176.470 KB |
| 🧫 nomad-server-1.0.6-for-domino-1202-win64.zip | 06.12.2022 13:28 | ZIP-komprimierte | 161.963 KB |
| 🧫 nomad-server-1.0.6-for-domino-1201-win64.zip | 06.12.2022 13:28 | ZIP-komprimierte | 161.963 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.



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





Installation (copy + unzip)

| 🏂 📕 | nomad-server-1.0.5-for-domino-1201-linux.tgz\1201-nomad-addin-0.15.5-4+ND12000101.tar\ | | | | | | | |
|---------------|--|----------------|------------------|----------------|-----------|---------|------|----|
| 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 | | | | |
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| | -rwxr-xr-x l roo | t notes 6 | 9482897 Sep 2 | 1 20:06 nws | p-linux | | | |

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



Check the TLS certificate

| 💘 C | 🛛 Certificate Store - TLS Credentials/by Host Name - HCL Domino Administrator - 🗗 🗡 | | | | | | | |
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| | PANAGENDA-DEMO Domain 🖳 Certificate Store - TLS Credential 🗙 | | | | | | | |
| | Add TLS Credentials | _ Edit Document 🖷 Delete TLS Credentials | | | | | | |
| Ì | Certificate Store | Certificate Expiration A Type Curve/Size # SANs | | | | | | |
| 2 | server01 🖨 server01.mc-demo.pa | anagenda.info 🔍 11/25/2022 11:11:50 AM RSA 4096 2 server01.mc-demo.panagenda.info,vop.mc-demo.panagenda.info | | | | | | |
| | Cert Manager Server: server01 | Document X Cancel 🛞 Examine Certificate(s) 🚹 Import TLS Credentials | | | | | | |
| \$ | ✓ TLS CREDENTIALS ▼ TLS CREDENTIALS | 5 | | | | | | |
| | By Host Name Main Security/Keys N | Ianual Comments | | | | | | |
| | By Domino Server | Last updated: Sal 08/27/2022 01:11:52 PM | | | | | | |
| | Status: | Issued | | | | | | |
| | Host humes. | server0 func-demo panagenda.info vopunc-demo panagenda.info | | | | | | |
| | Archive Servers with access: | server01/panagenda-demo server02/panagenda-demo | | | | | | |
| | CONFIGURATIONS Status: | Valid | | | | | | |
| | ACME Accounts | Fri 11/25/2022 11:11:50 AM | | | | | | |
| | Certificate renew date: | Wed 10/26/2022 12:11:50 PM | | | | | | |
| | Certificate Authorities Certificate provider: | ACME | | | | | | |
| | ONS Providers ACME account: Key Action | LetsEncryptProduction | | | | | | |
| | Key type: | 1096 | | | | | | |
| | S Edit Global Settings | 30 days before expiration | | | | | | |
| _ | 1 document selected | ▲] [| | | | | | |
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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



Start HCL Nomad server task

Console commad: load nomad

load nomad

> [040592:000002-00007F6B674B97C0] 10/18/2022 05:31:24 PM Nomad: Build 0.15.5-4+ND12000101 [040592:000002-00007F6B674B97C0] 10/18/2022 05:31:26 PM Nomad: Server initializing [040592:000002-00007F6B674B97C0] 10/18/2022 05:31:26 PM Nomad: Listening on 127.0.0.1:21813, CLIENT-IS-SERVER [040592:000002-00007F6B674B97C0] 10/18/2022 05:31:26 PM Nomad: Note: Requested port was 0, Actual listen port is 21813 [040592:000002-00007F6B674B97C0] 10/18/2022 05:31:26 PM Nomad: Server initialized

Check Task, console commad: sh tasks

[016642:000010-00007F37AA40A700] Nomad Listen for connect requests on 0.0.0.0:9443



| top - 18 | 8:00:33 | up 207 | day | /s, 6:50 |), 2 us | sers, lo | ad aver | age: 0 | .04, 0.08, | 0.03 | |
|----------|---------|----------|-----|----------|----------|----------|---------|---------|-------------|--------------|-----|
| Tasks: | 137 tot | al, 1 | rur | ning, 13 | 36 sleep | ping, O | stoppe | ed, 0 | zombie | | |
| %Cpu(s) | : 0.6 | us, 0.3 | s s | , 0.0 r | ni, 98.8 | 3 id, 0. | 0 wa, | 0.1 hi, | , 0.1 si, | 0.1 st | |
| MiB Mem | : 77 | 68.1 tot | al, | 5638. | .2 free | , 1166. | 9 used, | 963 | 3.0 buff/ca | ache | |
| MiB Swap | p: | 0.0 tot | al, | 0. | .0 free, | , 0. | 0 used. | 5655 | 5.5 avail N | 1em | |
| | | | | | | | | | | | |
| PID | USER | PR | NI | VIRT | RES | SHR S | %CPU | %MEM | TIME+ (| COMMAND | |
| 18571 | notes | 20 | | 1088.6m | 69.3m | 50.9m S | 0.3 | 0.9 | 4:35.73 (| clrepl | |
| 16584 | notes | 20 | | 13.6m | 3.1m | 1.7m S | 0.0 | 0.0 | 0:00.01 | rc_domino_sc | rip |
| 16642 | notes | 20 | | 2691.0m | 260.1m | 175.5m S | 0.0 | 3.3 | 4:16.16 \$ | server | |
| 16679 | notes | 20 | | 623.3m | 48.2m | 28.5m S | 0.0 | 0.6 | 0:14.11 | logasio | |
| 16695 | notes | 20 | | 1155.6m | 169.3m | 147.9m S | 0.0 | 2.2 | 3:48.07 🤅 | event | |
| 17383 | notes | 20 | | 630.3m | 75.4m | 55.8m S | 0.0 | 1.0 | 0:13.37 0 | lircat | |
| 17386 | notes | 20 | | 630.6m | 158.Om | 138.3m S | 0.0 | 2.0 | 0:26.19 1 | replica | |
| 17388 | notes | 20 | | 827.lm | 63.7m | 42.7m S | 0.0 | 0.8 | 1:23.50 | router | |
| 17390 | notes | 20 | | 893.2m | 100.lm | 75.5m S | 0.0 | 1.3 | 0:29.57 ı | update | |
| 17394 | notes | 20 | | 629.6m | 66.7m | 45.8m S | 0.0 | 0.9 | 0:17.93 a | amgr | |
| 17398 | notes | 20 | | 758.9m | 255.6m | 231.4m S | 0.0 | 3.3 | 1:51.35 a | adminp | |
| 17400 | notes | 20 | | 629.3m | 70.5m | 51.2m S | 0.0 | 0.9 | 0:22.80 : | sched | |
| 17401 | notes | 20 | | 622.8m | 45.9m | 27.1m S | 0.0 | 0.6 | 0:15.13 | calconn | |
| 17402 | notes | 20 | | 627.2m | 67.5m | 47.7m S | 0.0 | 0.9 | 0:23.16 | rnrmgr | |
| 17410 | notes | 20 | | 4421.0m | 243.lm | 109.7m S | 0.0 | 3.1 | 2:13.45 1 | nttp | |
| 17411 | notes | 20 | | 899.6m | 233.lm | 208.1m S | 0.0 | 3.0 | 0:57.05 | ldap | |
| 17412 | notes | 20 | | 693.4m | 46.9m | 29.0m S | 0.0 | 0.6 | 0:26.44 0 | laosmgr | |
| 17448 | notes | 20 | | 689.Om | 87.4m | 66.4m S | 0.0 | 1.1 | 0:28.97 0 | certmgr | |
| 17567 | notes | 20 | | 636.3m | 124.8m | 102.1m S | 0.0 | 1.6 | 0:26.92 a | amgr | |
| 18345 | notes | 20 | 0 | 627.lm | 65.lm | 46.1m S | 0.0 | 0.8 | 0:15.80 0 | cldbdir | |
| 40592 | notes | 20 | 0 | 1236.4m | 71.4m | 47.9m S | 0.0 | 0.9 | 0:03.35 r | nomad | |
| 40606 | notes | 20 | 0 | 710.7m | 73.8m | 32.9m S | 0.0 | 1.0 | 0:01.28 r | nwsp-linux | |
| 40614 | notes | 20 | 0 | 911.7m | 85.Om | 33.1m S | 0.0 | 1.1 | 0:01.85 r | nwsp-linux | |
| 40618 | notes | 20 | 0 | 839.5m | 74.3m | 33.0m S | 0.0 | 1.0 | 0:01.46 r | nwsp-linux | |
| 40621 | notes | 20 | 0 | 913.Om | 84.2m | 33.2m S | 0.0 | 1.1 | 0:01.70 r | nwsp-linux | |
| 40627 | notes | 20 | 0 | 781.Om | 84.5m | 33.0m S | 0.0 | 1.1 | 0:01.73 r | nwsp-linux | |
| 3893960 | notes | 20 | 0 | 918.7m | 92.Om | 33.3m S | 0.0 | 1.2 | 0:17.87 r | nwsp-linux | |
| 3893966 | notes | 20 | 0 | 920.3m | 93.8m | 33.6m S | 0.0 | 1.2 | 0:38.37 r | nwsp-linux | |



Open HCL Nomad and first login

The Nomad server is listening on Port: 9443 in default

| НС | | | | | | | | | | |
|----|--|----------|---|-------|------|---|--|--|--|--|
| | | | н | | omad | 1 | | | | |
| | | User Nar | | | omau | | | | | |
| | | John Do | | | | | | | | |
| | | | | Conti | nue | | | | | |



Open HCL Nomad and first login

The Nomad server is listening on Port: 9443 in default

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|--|---|------------------|-----------------------|----------------------|
| \leftarrow \rightarrow C \blacklozenge | https://server01.mc-demo.panagenda.info:9443/nomad/#/ | 0 A to 🚺 🔯 🕼 | 0 🛃 🕼 🕅 | ଓ ⊱ @ ∭ … |
| 🐠 HCL Nomad Op | ven File | | | (?) × (2) John Doe × |
| 🟠 Home 📓 John Doe - Int | box × 3 Doe's Contacts - My Contacts × 88 Workspace × | | | |
| | Recent Applications | Launch Workspace | C Open Application | |
| | | - | Backup DB server01 | |



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





Configuration of the Nomad server (example)

```
#default host and port setting
1
2
     host: '0.0.0.0'
3
     port: 9443
4
5
      #default number of worker processes
6
    -cluster:
     🗸 forks: 3
8
9
     #Session cookie configuration
    -session:
       secret: # default: randomly generated 32 character value
12
       sameSite: lax
13
       secure: true
14
15
      #LTPA behind SafeLinx
16
    -ltpa:
       cookieName: LtpaToken2
18
19
     #TLS
    []tlsOptions:
       ciphers: ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-ECDSA-AES256-GCM-SHA384:ECDHE-ECDSA-AES128-GCM-SHA256
22
       honorCipherOrder: true
        secureOptions: SSL OP NO TLSv1 | SSL OP NO TLSv1 1
24
      #Saml configuration
26
    -saml:
       issuer:
28
    claims:
29
          # Any claim you place here and map to a SAML claim will be read for the user
30
          # email: # default http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress
    idp: # see https://github.com/node-saml/passport-saml#config-parameter-details
32
          entryPoint:
          cert:
34
35
     #Certificate configuration
36
     ca: # file location or contents of the ca's certificate pem file
37
     cert: # file location or contents of the certificate pem file
38
     key: # file location or contents of the certificate key pem file
```



Tip of the day: 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

Tip of the day: How to configure Port 443 ...



... on Linux based (Domino) servers (continued)

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 |
|----------------|------------------|
| ost: '0.0.0.0' | |
| port: 443 | |

Tip of the day: How to configure Port 443 ...



... on Linux based (Domino) servers (continued)

Step 3: Start nomad on Domino. (load nomad)

| <pre>> load nomad > [926809:000002-00007F24F95937C0] 12/06/2022 07:18:12 PM Nomad: Build 0.15 [926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Server initi [926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Listening or [926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Note: Reques [926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Server initi [926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Server initi </pre> | alizing 127.0.0.1:2801, CLIENT-IS-SERVER ted port was 0, Actual listen port is 2801 |
|--|---|
| ✓ HCL Nomad × + ← → C ▲ https://server01.mc-demo.panagenda.info/nomad/#/ | Image: Control of the second of the secon |





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Version 12.0.12



New Features in v12.0.12



- New optional columns for the Summary and Signed fields (right-click the field table for a menu that lets you show or hide columns)
- New copy menu options let you easily copy field names, values, or all info
- New menu option to open documents by NoteID or UNID → Pro only
- New ability to compare profile documents, and to see what fields changed when a document is modified <u>→ Pro only</u>



Q & A







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