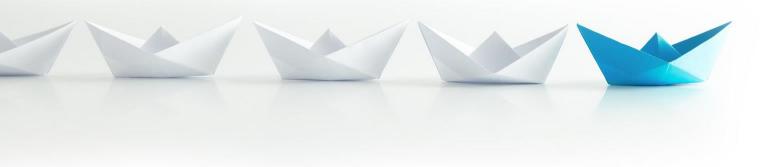


How to Bring HCL Nomad Web and Domino Together Without SafeLinx

December 13th 2022



Make Your Data Work For You







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@panagenda

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Join the conversation using #NomadWeb #WithoutSafeLinx #Domino

Agenda



- What is HCL Nomad?
- Current Versions, Features and Requirements
- HCL Nomad Server for Domino
- Surprise ⁽²⁾



Make Your Data Work For You



!=

Nomad (mobile)

Nomad Web

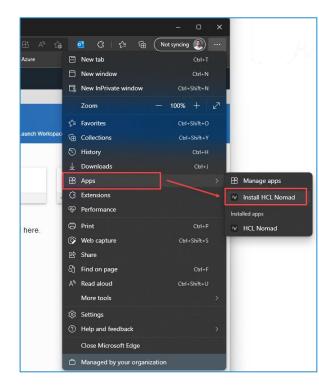
Official name "HCL Nomad for web browser"

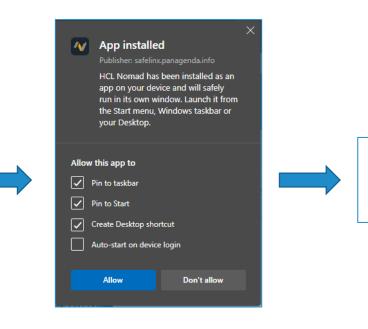


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HCL Normad







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Current Versions, Features and Requirements

Make Your Data Work For You





- 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)

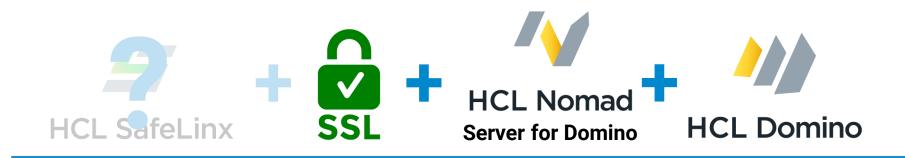






Requirements (without SafeLinx)







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) \rightarrow the "chrome/edge" browser(s)



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

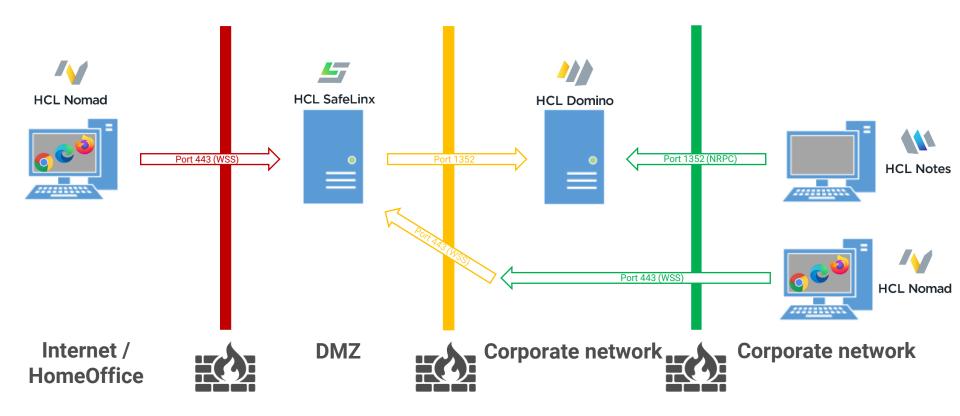
Issue Identifiers	Details
NWASM-2465	Russian: Customize This View: Fix for the dialog columns being too narrow.
NWASM-2466	Russian: Customize This View: Fix the truncation of "Сортировать".
NWASM-2566, NWASM-4224, NWASM- 4426	Update the Time Picker and Date Picker to fix multiple issues and improve usability.
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 Microsof Edge version 108.



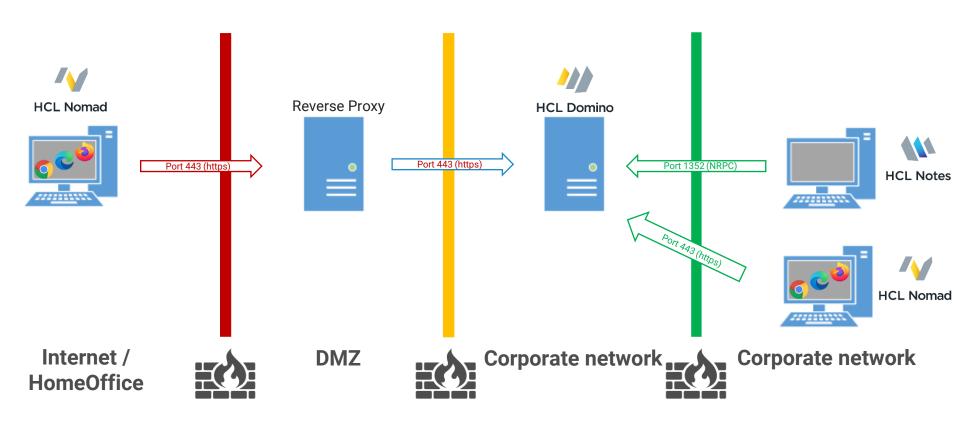


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Quick Checklist / prerequisites before installation

- 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)

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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

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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 co	onnect re	quests on	0.0.0.0:9443
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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	dircat	
17386	notes	20		630.6m	158.Om	138.3m S	0.0	2.0	0:26.19	replica	
17388	notes	20		827.lm	63.7m	42.7m S	0.0	0.8	1:23.50	router	
17390	notes	20		893.2m	100.1m	75.5m S	0.0	1.3	0:29.57	update	
17394	notes	20		629.6m	66.7m	45.8m S	0.0	0.9	0:17.93	amgr	
17398	notes	20		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		627.2m	67.5m	47.7m S	0.0	0.9	0:23.16	rnrmgr	
17410	notes	20		4421.0m	243.1m	109.7m S	0.0	3.1	2:13.45	http	
17411	notes	20	0	899.6m	233.lm	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		
17448	notes	20	0	689.Om	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		627.lm	65.lm	46.1m S	0.0	0.8	0:15.80	cldbdir	
40592	notes	20	0	1236.4m	71.4m	47.9m S	0.0	0.9	0:03.35 1	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.Om	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.Om	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		nwsp-linux	
3893960	notes	20	0	918.7m	92.Om	33.3m S		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	



Open HCL Nomad and first login

The Nomad server is listening on Port: 9443 in default

HCL							
		_	1				
		HCL N	omad				
	User Name John Doe						
		Contin	iue	1			



Open HCL Nomad and first login

The Nomad server is listening on Port: 9443 in default

Home	× +	- 0 X
\leftarrow \rightarrow C	https://server01.mc-demo.panagenda.info:9443/nomad/#/	0 A G 0 💺 0 📭 🕅 G 6 庙 폐 …
🕢 HCL Nomad 🛛 C	Open File	⑦ ∽ ⑧ John Doe ∽
🟠 Home 🎽 John Doe - I	Inbox × Doe's Contacts - My Contacts × 🛛 🔀 Workspace ×	
	Recent Applications	Launch Workspace 📑 Open Application
		ecently are displayed here.



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 0.15.5-19+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-SERV [926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Note: Requested port was 0, Actual listen p [926809:000002-00007F24F95937C0] 12/06/2022 07:18:15 PM Nomad: Server initialized</pre>	
✓ HCL Nomad × + ← → C ▲ https://server01.mc-demo.panagenda.info/nomad/#/	





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Q & A





Xaver Benz @panagenda

Head of Marketing and Training panagenda



Marc Thomas @IAM_Mthomas Senior Consultant panagenda



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111

Alles, was Sie über HCL Notes 64-Bit Clients wissen müssen

24. Jänner, 2022

Jetzt registrieren >





Marc Thomas HCL Ambassador & Senior Consultant panagenda

