

Domino iQ

What to Expect, First Steps and Use Cases

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Host & Speaker



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Before We Start



All attendee lines are muted

This is to prevent interruptions during the presentation.



Please submit questions via the Chat or Q&A panel

Your questions will be addressed directly during the webinar or in the Q&A section after the presentation.



The webinar is being recorded

After the webinar, we will send you a mail to give access to the recording and presentation slides.



Share your feedback with us

Use the link provided at the end to let us know what we can do better.

Domino iQ – What to Expect

- ▶ What is an LLM?
 - ▶ EU AI Act

- ▶ What is Domino IQ?

- ▶ Domino IQ
 - Configuration
 - Use cases



What is an LLM?



What is an LLM?

- A Large Language Model (LLM) is an advanced AI system trained on massive text data to understand and generate human-like language
- It can answer questions, summarize text, write creatively & assist with tasks using natural language
- LLMs are trained on vast amounts of text data, such as books, articles, and websites
 - This helps them understand grammar, context, and even nuances of different languages



What is an LLM?: Which one to choose for Domino IQ?

- Functionality highly depends on the right choice of LLM
- The larger the model the better the replies. But larger models also require much more CPU/GPU resources
- It does not make sense to ship models with Domino IQ
 - Models are fast changing and depend on our needs
 - There are base models customized for different needs and different sized GPUs



EU AI Act



Why is the EU AI Act Important?

Mandatory AI Training

- The EU AI Act requires companies to provide compulsory training for all employees working with generative AI.

Compliance Deadline

- Training programs must be implemented by 2 February 2025 to meet regulatory standards.

Ensuring Safe & Responsible Use

- The aim is to guarantee that staff can safely manage AI, minimizing risks and ensuring legal certainty.



Why is the EU AI Act Important?

Operational Readiness

- Companies must integrate training strategies.

Risk Reduction

- Improved training reduces liability risks and potential data protection breaches.

Competitive Advantage

- By ensuring skilled usage of AI, Domino IQ can optimize processes and maintain a market edge.



What is the EU AI Act?

The **EU AI Act** is a **regulatory framework (law)** established by the European Union to govern artificial intelligence (AI) technologies. It aims to **prohibit certain high-risk AI applications**, such as social scoring systems, while implementing strict **governance, risk management, and transparency requirements** for others. The Act classifies AI systems based on their risk levels, with **unacceptable risks being prohibited** and most regulations focusing on **high-risk AI systems**. It came into force on **August 1, 2024**, and is designed to foster responsible AI development while addressing potential risks to citizens' health, safety, and fundamental rights.



What is Domino iQ



What is Domino iQ?

- **Domino integrated** AI implementation
 - Use of standard Large Language Model (LLM)
 - Runs LLM of “your choice” locally
 - **No external connection** required at run-time
 - Functionality is integrated into Domino
- **Notes client/server integration**
 - Native Notes (NRPC) transaction
 - Lotus Script and Java classes
 - [NotesLLMRequest \(LotusScript\)](#)
 - [NotesLLMResponse \(LotusScript\)](#)

What is Domino iQ?

Client

Examples, but not limited to...



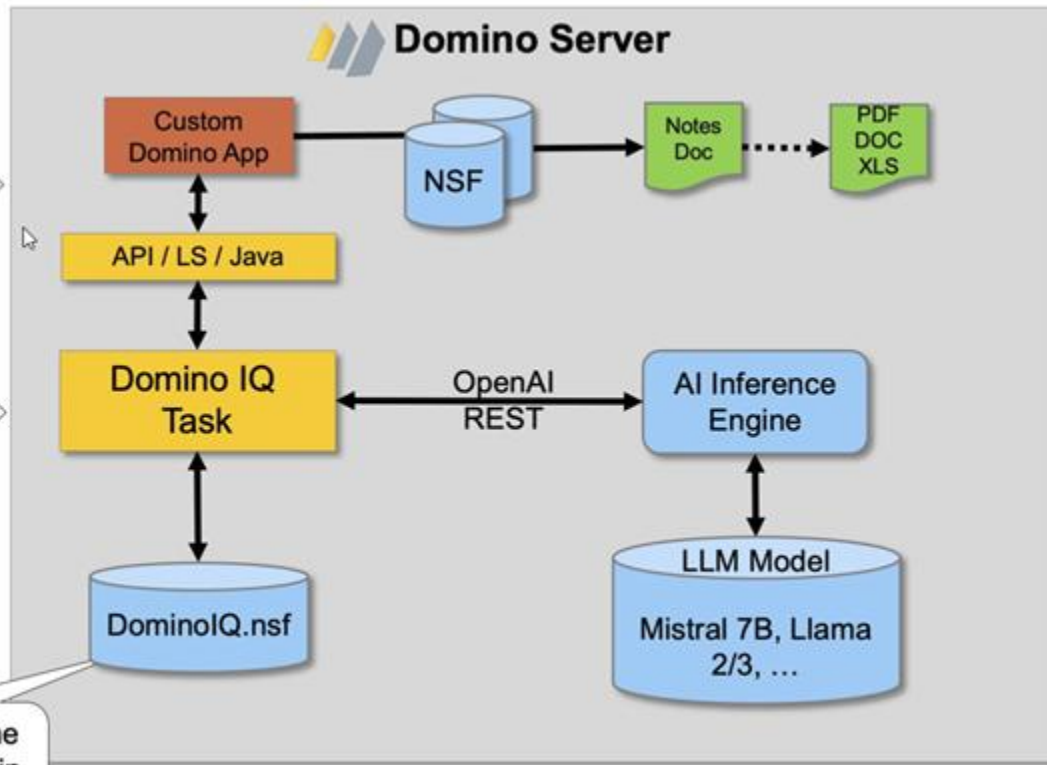
HCL Nomad

HCL Notes

HTTP/Rest

NRPC

Config for Engine
Predefined Admin
Prompt, Actions



What is Domino iQ?

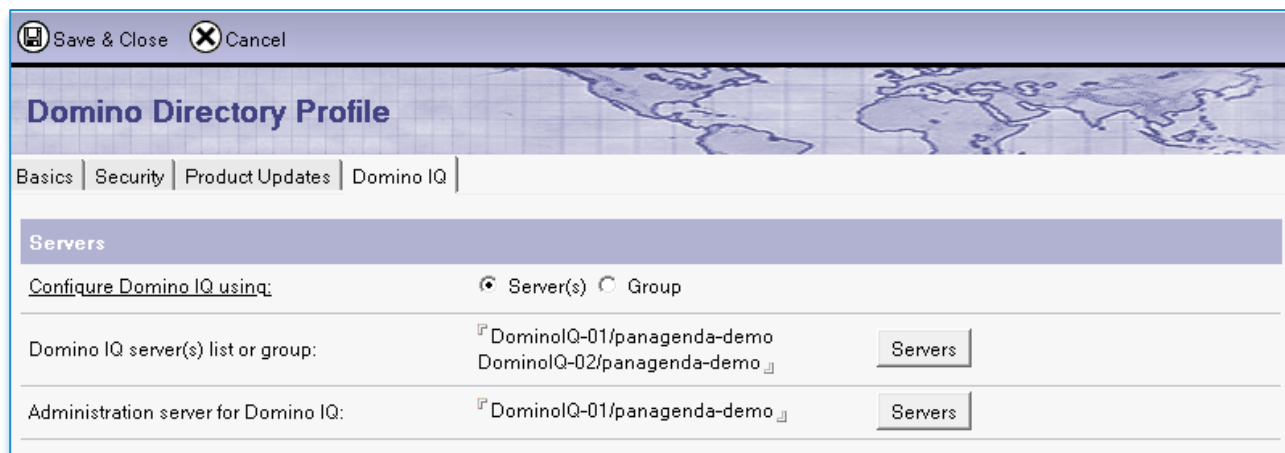
- Domino IQ server
 - NRPC “LLM” transaction
 - LLAMA C++ server (the same open-source project Ollama is based on)
 - Domino core connects to LLAMA server via localhost (127.0.0.1)
- Models in GGUF format required
- Need to be downloaded manually into “**llm_models**” directory
 - gguf files are the actual LLM files
- LLAMA supports OpenAI REST API
 - Request type currently implemented:
[/v1/chat/completions](#)

Domino iQ - Configuration



Domino IQ configuration (Step 1) – Domino Profile setup

- Global configuration defining all Domino IQ servers in a Domino domain
 - Setup in Domino directory profile (names.nsf)
 - Select administration server
 - List of all servers running Domino IQ



Save & Close Cancel

Domino Directory Profile

Basics Security Product Updates **Domino IQ**

Servers

Configure Domino IQ using: ☒ Server(s) ☐ Group

Domino IQ server(s) list or group: DominoIQ-01/panagenda-demo
DominoIQ-02/panagenda-demo Servers

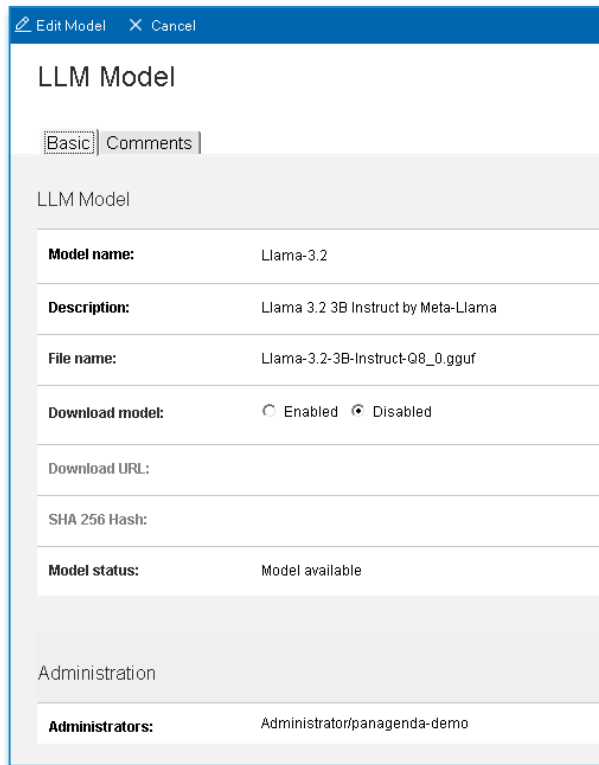
Administration server for Domino IQ: DominoIQ-01/panagenda-demo Servers

- [illegible]

Domino IQ configuration (Step 2.1) – Database setup

- **Model**

- Auto-download and manage GGUF-format LLM models in Domino IQ via an “LLM Model” document in dominoiq.nsf



LLM Model

Basic | Comments

LLM Model

Model name:	Llama-3.2
Description:	Llama 3.2 3B Instruct by Meta-Llama
File name:	Llama-3.2-3B-Instruct-Q8_0.gguf
Download model:	☐ Enabled ☒ Disabled
Download URL:	
SHA 256 Hash:	
Model status:	Model available

Administration

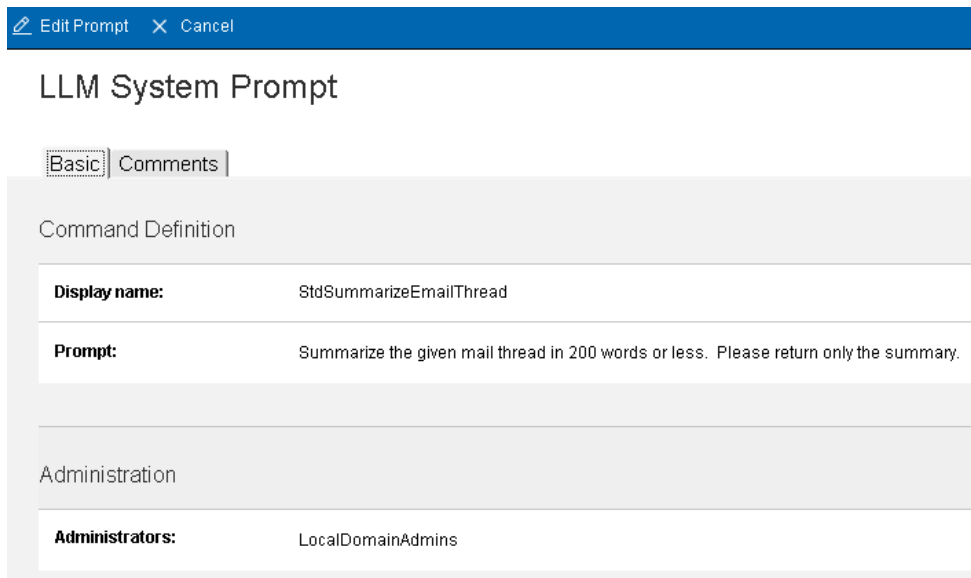
Administrators:	Administrator/panagenda-demo
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Domino iQ: A classification

Domino IQ configuration (Step 2.2) – Database setup

- **System Prompts**

- Define a “System Prompt” document that directs the Domino IQ AI inference engine—using a chosen LLM—to frame queries and generate the correct responses.



The screenshot shows a web-based configuration window for an LLM System Prompt. The window has a blue header bar with 'Edit Prompt' and 'Cancel' buttons. Below the header, the title 'LLM System Prompt' is displayed. There are two tabs: 'Basic' (selected) and 'Comments'. The 'Basic' tab contains two main sections: 'Command Definition' and 'Administration'. The 'Command Definition' section has two fields: 'Display name' with the value 'StdSummarizeEmailThread' and 'Prompt' with the value 'Summarize the given mail thread in 200 words or less. Please return only the summary.' The 'Administration' section has one field: 'Administrators' with the value 'LocalDomainAdmins'.

LLM System Prompt	
Basic Comments	
Command Definition	
Display name:	StdSummarizeEmailThread
Prompt:	Summarize the given mail thread in 200 words or less. Please return only the summary.
Administration	
Administrators:	LocalDomainAdmins

Domino iQ: A classification

Domino IQ configuration (Step 2.3) – Database setup

- **Commands**

- Map LLM system prompts to Domino IQ servers by adding an “LLM Command” document in dominoiq.nsf, specifying which servers support the prompt (and optional model settings).

 Edit Command  Cancel

LLM Command

Basic

Comments

LLM Command

Configuration(s):	*
Model:	
Command:	StdSummarizeEmailThread
Description:	Users don't want to read through an entire thread, easier to process a summary
System prompt:	StdSummarizeEmailThread
Maximum tokens:	512
Temperature:	

Administration

Administrators:	LocalDomainAdmins
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Domino iQ: A classification

Domino IQ configuration (Step 2.4) – Database setup

- **Configuration**

- Define a “Domino IQ Configuration” document in dominoiq.nsf to associate a Domino server with an LLM model and configure its local AI inference endpoint (port, TLS, and tuning parameters).

Edit Configuration X Cancel

Domino IQ Configuration

Basic Advanced Comments

AI endpoint mode:	☒ Local ☐ Remote
Domino server name:	DominoIQ-01/panagenda-demo
Model:	Llama-3.2
Model availability:	Model copy succeeded; model is available
Status:	Enabled

Configuration Values

Port:	8080
Use TLS:	☐ Use TLS

Administration

Administrators:	Administrator/panagenda-demo
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Domino iQ: A classification

Domino IQ configuration (Step 2.5) – Database setup

- **Configuration (remote)**
 - Create a “Domino IQ Configuration” document in Remote mode to link a Domino server with an externally hosted LLM endpoint for AI inference.

Domino IQ Configuration

Basic | Advanced | Comments

AI endpoint mode:

☐ Local ☒ Remote

Domino server name:

Servers

Model:

Status:

Configuration Values

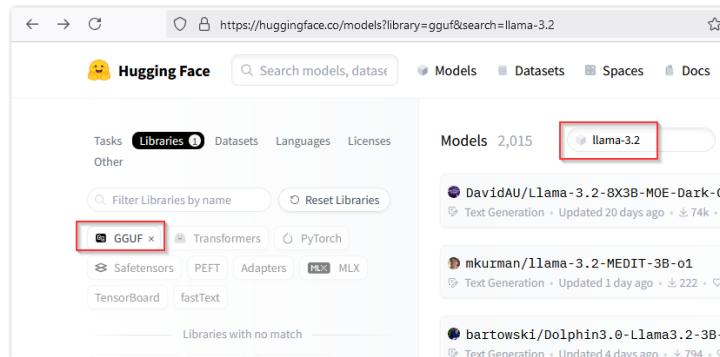
AI endpoint URL:

AI endpoint API key:

Domino iQ: A classification

Domino IQ configuration (Step 3) – Model download

Download the LLM of your choice:
(huggingface.co is the biggest HUB of LLMs today)



LLM files can be in different format

- Domino IQ (LLAMA server) requires a the GGUF format
- There is a UI option to select LLMs available as a GGUF file

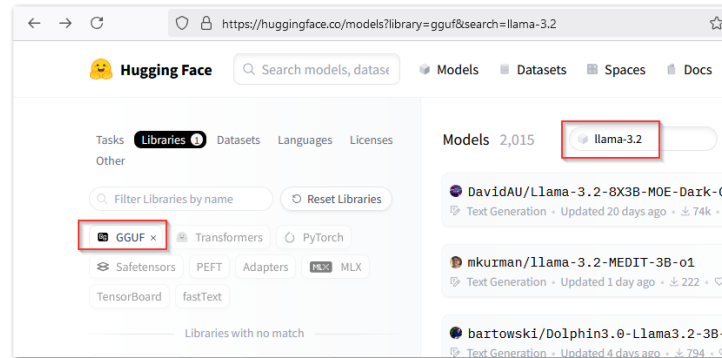
Model files can be converted to GGUF

- For a first test you should stay away from conversions...

Domino iQ: A classification

Domino IQ configuration (Step 3.1) – Model download

Download the LLM of your choice:
(huggingface.co is the biggest HUB of LLMs today)



Example search

<https://huggingface.co/models?library=gguf&search=llama-3.2>

- HCL recommends the following model as a first step
 - <https://huggingface.co/Imstudio-community/Llama-3.2-3B-Instruct-GGUF>

Domino IQ (Sidestep which model and why)

Why Specialized LLMs + Top Use-Cases

- **Precision**
Domain-tuned for accurate, relevant outputs
- **Efficiency**
Smaller, focused models run faster and cheaper
- **Reliability**
Fewer hallucinations and built-in guardrails
- **User Fit**
Tailored responses that need minimal editing

Domino IQ (Sidestep which model and why)

- **Categories & Preferred Models**

- **Conversational Agents & Chatbots**

- WizardLM 2 7B (lmstudio-community/WizardLM-2-7B-GGUF)

- **Content Creation & Creative Writing**

- phi-4 (lmstudio-community/phi-4-GGUF)

- **Summarization & Abstraction**

- Meta-Llama 3.1 8B Instruct (lmstudio-community/Meta-Llama-3.1-8B-Instruct-GGUF)

- **Code Generation & Programming Assistance**

- CodeLlama 7B KStack (lmstudio-community/CodeLlama-7B-KStack-GGUF)

- **Translation & Localization**

- EuroLLM 9B Instruct (lmstudio-community/EuroLLM-9B-Instruct-GGUF)

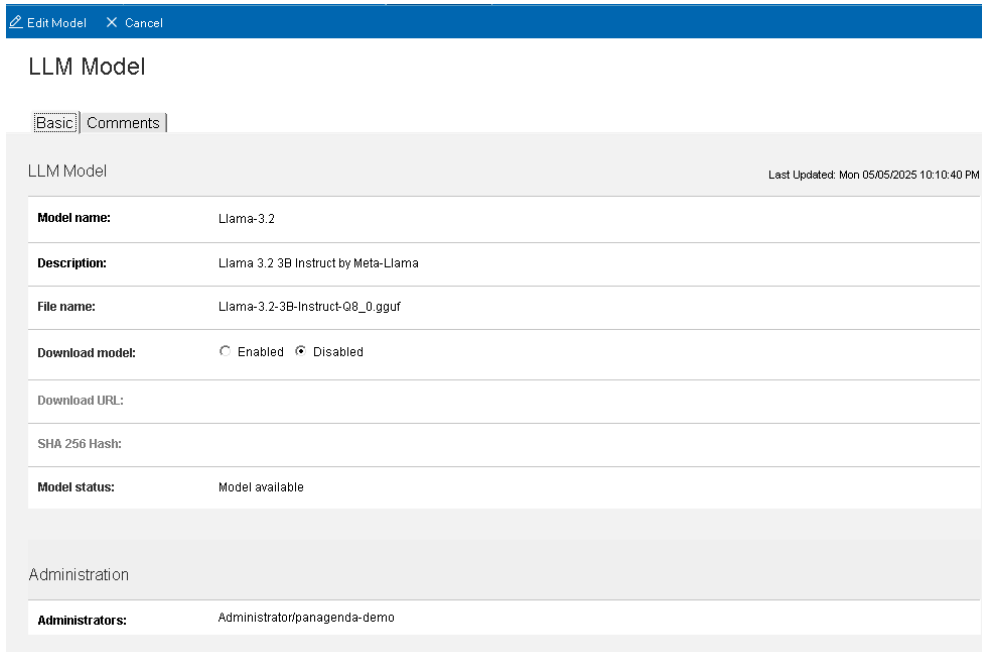
Domino iQ: A classification

Domino IQ configuration (Step 4) – Model configuration

- **LLM Model**

- Name of the model
- Short description
- **GGUF** model filename on disk
 - Make sure there is no blank at the end

GGUF files must be placed here
(/DOMINODATA/llm_models)



The screenshot shows the 'Edit Model' window for an LLM Model. The interface has a blue header bar with 'Edit Model' and 'Cancel' buttons. Below the header, the title 'LLM Model' is displayed. There are two tabs: 'Basic' (selected) and 'Comments'. The main content area is titled 'LLM Model' and includes a 'Last Updated' timestamp: 'Mon 05/05/2025 10:10:40 PM'. The configuration fields are as follows:

Model name:	Llama-3.2
Description:	Llama 3.2 3B Instruct by Meta-Llama
File name:	Llama-3.2-3B-Instruct-Q8_0.gguf
Download model:	☐ Enabled ☒ Disabled
Download URL:	
SHA 256 Hash:	
Model status:	Model available

Below the configuration fields is an 'Administration' section with the following field:

Administrators:	Administrator/panagenda-demo
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Domino iQ: A classification

Domino IQ configuration (Step 5) – Server configuration

- Per Domino IQ server configuration document
- Sets the model used by the Domino IQ Server by model name defined in the model document
- Port configuration for the localhost connection
 - Standard ports should work
 - Optional TLS connection

[Edit Configuration](#) [Cancel](#)

Domino IQ Configuration

Basic | Advanced | Comments

AI endpoint mode:	☒ Local ☐ Remote
Domino server name:	DominoIQ-01/panagenda-demo
Model:	Llama-3.2
Model availability:	Model copy succeeded; model is available
Status:	Enabled

Configuration Values

Port:	8080
Use TLS:	☐ Use TLS

Administration

Administrators:	Administrator/panagenda-demo
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Domino iQ: A classification

Domino IQ configuration (Step 5.1) – Remote Server configuration

- URL to your external LLM Server
- API Key to connect to the LLM server
- Generate a secure key value manually
 - Used as Bearer token for the REST API
 - Passed to LLAMA server at startup

Remember

- Request type currently implemented:
</v1/chat/completions>

Save & Close X Cancel

Domino IQ Configuration

Basic | Advanced | Comments

AI endpoint mode: Local Remote

Domino server name: DominoIQ-01/panagenda-demo Servers

Model: Llama-3.2

Status: Enabled

Configuration Values

AI endpoint URL:

AI endpoint API key:

Administration

Administrators: Administrator/panagenda-demo

Domino iQ: A classification

Domino IQ configuration (Step 6) – TLS configuration (optional)

- TLS is usually not required for a local connection
 - **Tip: Start without TLS for functional testing**
- Domino IQ fully supports TLS
 - Can use CertMgr TLS Credentials
 - CertMgr now supports “**localhost**”
 - MicroCA can now be used to create a **localhost** Certificate
 - Set “Servers with access” to all Domino IQ servers

[Submit Request](#) [Edit Document](#) [Cancel](#) [Examine Certificate\(s\)](#)

TLS Credentials

[Main](#) | [Security/Keys](#) | [Manual](#) | [Comments](#)

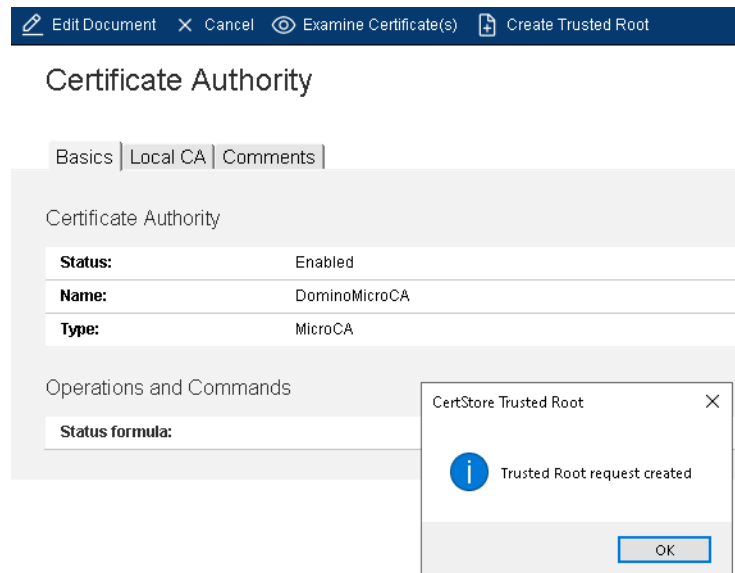
Main

Status:	Issued
Host names:	localhost
Servers with access:	DominoIQ-01/panagenda-demo DominoIQ-02/panagenda-demo ☐
Status:	Valid
Certificate expiration:	Wed 05/06/2026 10:24:23 PM
Certificate renew date:	Mon 04/06/2026 10:24:23 PM
Certificate provider:	MicroCA
Certificate authority:	
Key type:	RSA
Key size:	4096
Automatically renew:	30 days before expiration
Request key rollover:	
Keyring file:	

Domino iQ: A classification

Domino IQ configuration (Step 6.1) – TLS configuration (optional)

- LLAMA Server listens on TLS port
 - Domino IQ opens a client connection
- Cross cert is needed to trust the server certificate
- New “Create Trusted Root” action
 - Implemented in template logic
 - Creates a new trusted root document
 - Copies the root certificate
 - Submits the request
 - CertMgr server processes request



Domino iQ: A classification

Domino IQ good to know

Documentation:

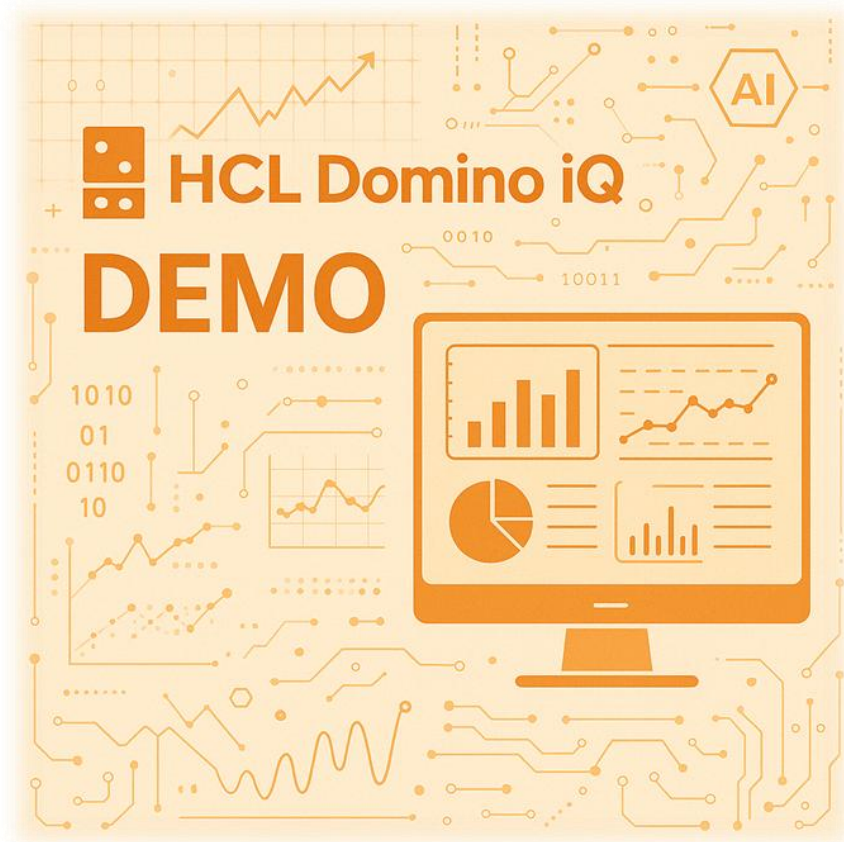
- https://help.hcl-software.com/domino/14.5.0/admin/domino_iq_server.html

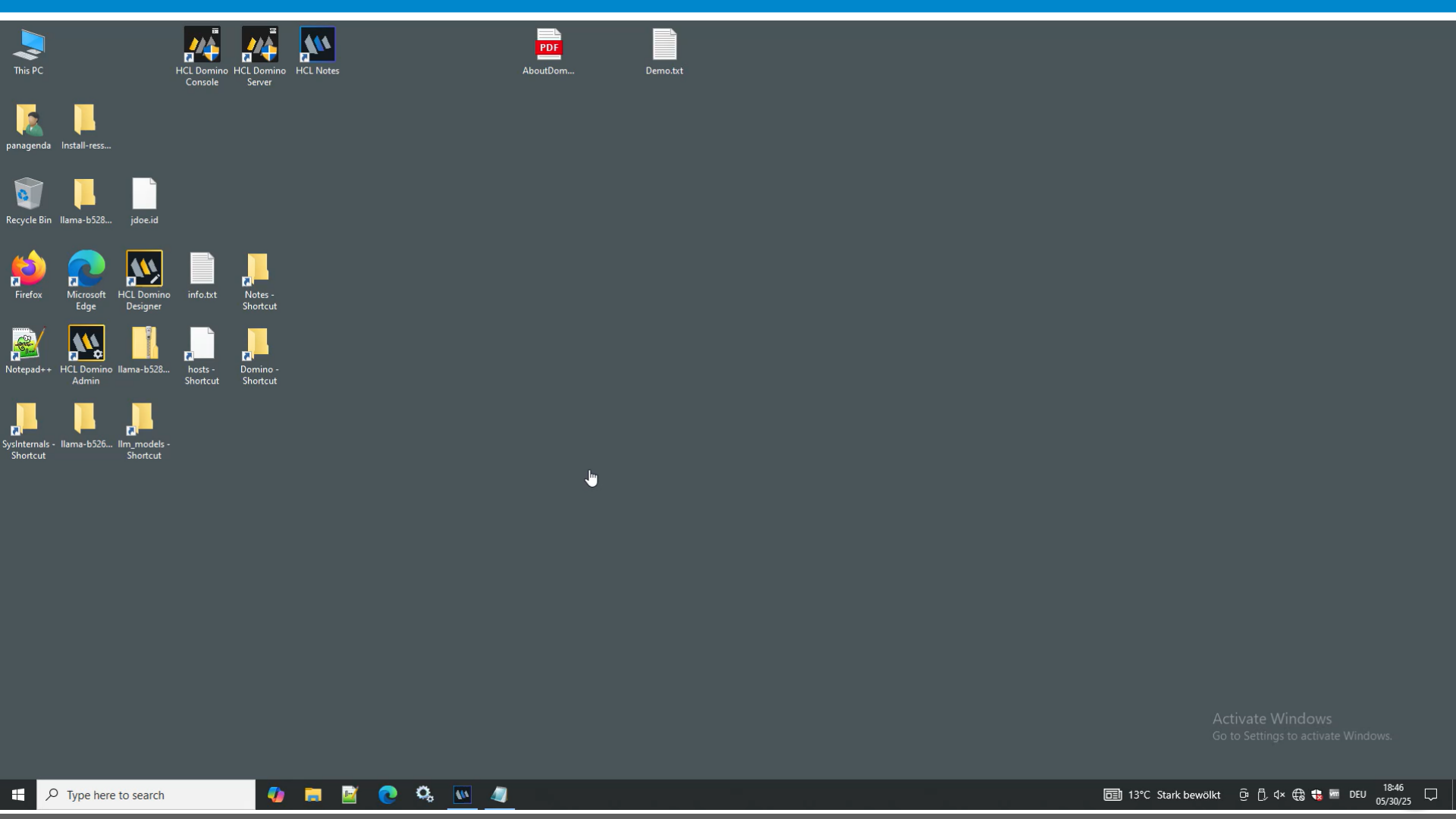
Troubleshooting tips

- https://help.hcl-software.com/domino/14.5.0/admin/conf_iq_troubleshooting_tips.html

Development

- https://help.hcl-software.com/dom_designer/14.5.0/basic/H_NotesLLMRequest_Class.html
- https://help.hcl-software.com/dom_designer/14.5.0/basic/H_NotesLLMResponse_class.html





Activate Windows
Go to Settings to activate Windows.

Domino iQ - Use cases

A few ideas



Domino iQ: A classification

Use Cases - Boosting Productivity

- Summarize long email threads automatically
- Generate smart auto-replies
- **Translate email conversations on demand**
- Highlight tasks from meeting notes
- Suggest relevant reply options based on content



Domino iQ: A classification

Use Cases - Boosting Productivity

- Support intelligent filing with SwiftFile enhancements
- Auto-forward emails based on detected topics
- Detect spam and phishing via AI analysis
- **Categorize and prioritize emails automatically**
- Generate follow-up reminders from email context



Domino iQ: A classification

Use Cases - Smarter Customer Engagement

- Automatically classify and segment customers
- Predict customer behavior and purchase likelihood
- **Recommend follow-up actions based on customer history**
- Analyze sentiment in customer emails and feedback
- Detect sales opportunities through AI pattern recognition



Domino iQ: A classification

Use Cases - Smarter Customer Engagement

- **Search customer-related documents intelligently**
- Provide personalized dashboards and reports
- Auto-generate customer insights and reports
- Validate and clean customer data (e.g., duplicates)
- Transcribe and analyze customer calls via speech recognition



Domino iQ: A classification

Use Cases - Optimized Operations with Proactive Administration

- Detect unusual server loads via anomaly detection
- **Get AI-based recommendations from log file analysis**
- Optimize system resources like RAM and CPU
- Identify potential security vulnerabilities



Domino iQ: A classification

Use Cases - Optimized Operations with Proactive Administration

- **Automatically deactivate orphaned user accounts**
- Receive smart update suggestions
- Predict maintenance needs ahead of time



Domino iQ: A classification

Use Cases - Accelerating Development

- Generate workflows and reports automatically
- Track and visualize document version history
- **Suggest pseudocode or generate code based on logic**
- Complete, review, and test code intelligently
- Enhance Domino Designer help with AI context



Domino iQ: A classification

Use Cases - Accelerating Development

- Search and summarize design elements or code
- Extract structured info from emails and documents
- Process PDFs with OCR and validation
- Analyze and optimize code quality
- Auto-generate test cases
- **Predict and prevent code-level issues**



Domino iQ: A classification

Let's summarize

- Domino iQ is easy to configure
- Domino iQ is not a ChatGPT for Domino
- Domino 14.5 is the first step
- Consider what possibilities you might have with Domino iQ
- Train your employees and colleagues

THANK YOU!



Q&A



Your Feedback Matters to Us





WEBINAR

Series: Explore HCL's Latest Innovations

Notes 14.5

Shedding Light on the New Release

Speaker



Christoph Adler

Head of Solution Consulting & HCL Ambassador
panagenda

