

# HCLSoftware

## What's new with HCL Leap and Domino Leap

# Introduction & Agenda



**Marty Lechleider**

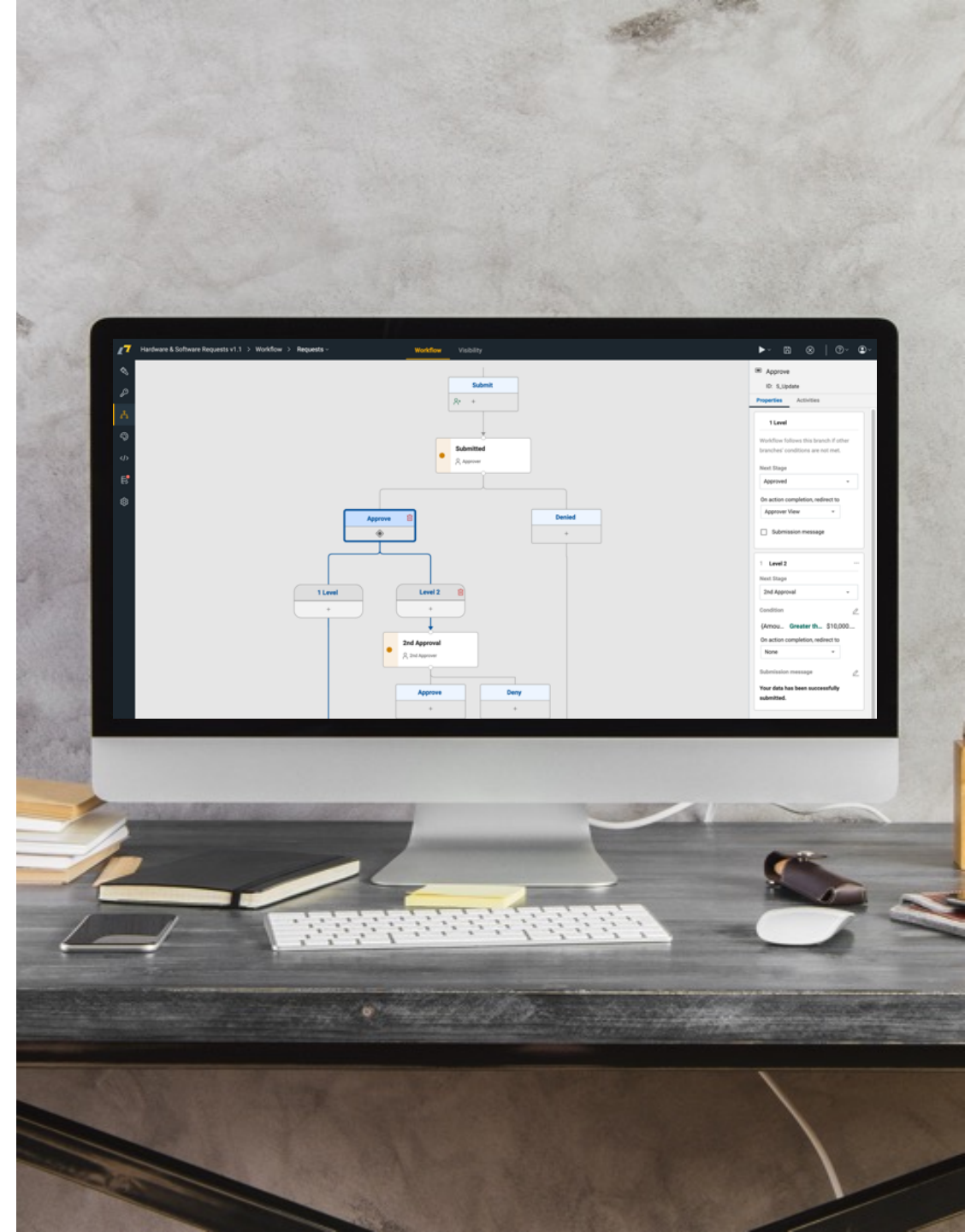
Product Management  
Director, HCL Software

## What's New with Leap?

- Leap introduction
- What's new
- What's next
- Summary

# Leap is for Citizen Developers

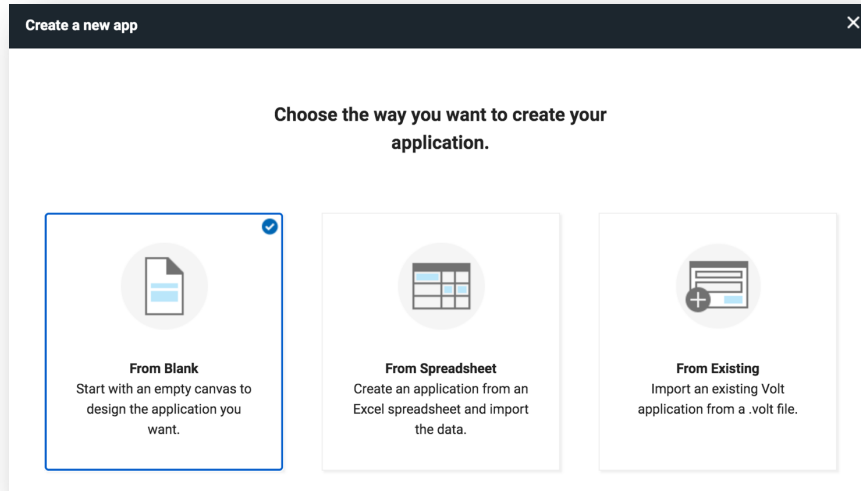
- Let's business user innovate and improve efficiency – *without IT assistance*
- Build web forms, workflows, report and analyze data
- Easy and safe to deploy - IT stays in control with governance and transparency



# Business users can create apps in minutes

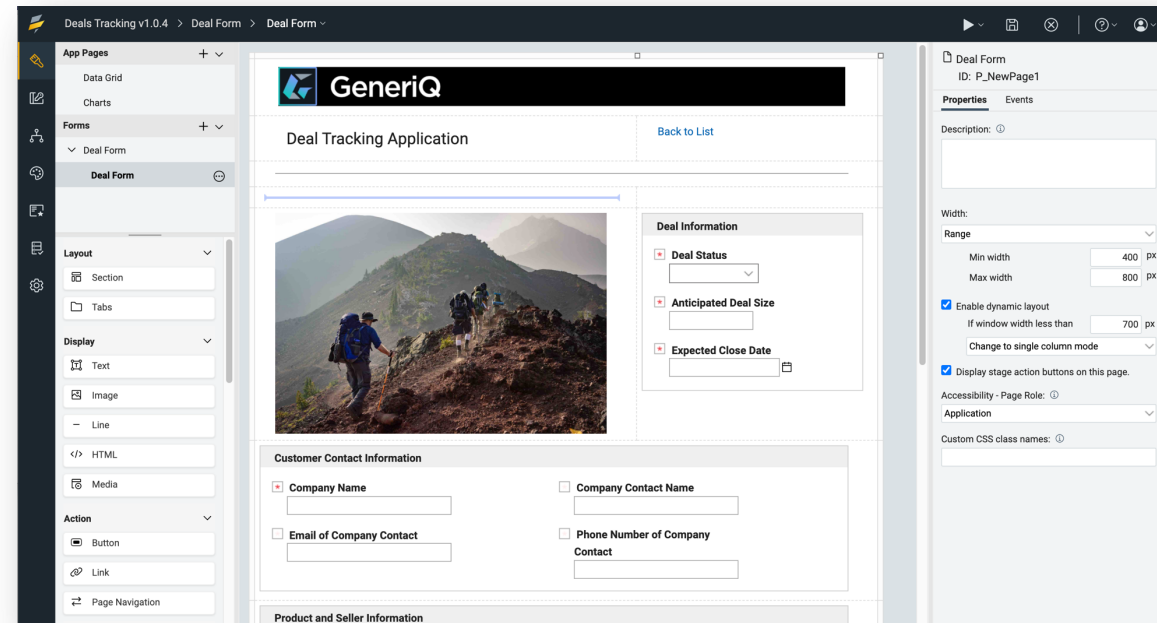
## Customize Your App Design from Blank Canvas

Design your app with an intuitive drag-and-drop interface anyone can use



## Create an app from:

- A blank canvas
- Spreadsheets
- An existing Leap app - i.e., template





# Easy to set field validation

## Validation pattern for text fields

Placeholder: ⓘ

Example: 9-999-999-9999

☐ Change entry to uppercase ⓘ

Format ⓘ

1-111-111-1111, 111-111-1111

☐ Regular expression

Custom error message ⓘ

Please enter a valid phone number

## Setting ranges for date fields

Range: ⓘ

Earliest

11/14/2022

📅

Latest

11/30/2022

📅

## Setting ranges for numeric fields

Range: ⓘ

Minimum

100

Maximum

10,000

## Set bounds for select many fields

Number of selections allowed: ⓘ

Minimum number

1

Maximum number

3

## ‘Required’ setting on all fields

➡

🔴\*

Number

🛡️📄🗑️

Add hint

# Add rules to make forms dynamic

- Make the user experience dynamic
- Specify rules to:
  - Show/hide
  - Enable/disable
  - Require/not require parts of your form

The screenshot displays the HCL Leap Customer Quotes application interface. On the left, a sidebar menu shows the navigation structure: App Pages (Quotes, Pricing, Customers), Forms (Quotes, Summary), Layout (Section, Tabs), Display (Text, Image, Line, HTML, Media), and Action (Button, Link). The main area shows the 'Customer Quote App' form with fields for Rep Name, Rep Email, and a list of items (1) Account, (2) Product, (3) Installation, and (4) Service. The '3) Installation' item is selected and highlighted. A 'Rules' dialog box is open in the foreground, showing the configuration for 'Rule 4'. The dialog includes a 'Show rules related to:' dropdown set to '3) Installation', a 'Rule Name' field set to 'Rule 4', a 'Perform this action:' dropdown set to 'Show', and a 'When the following condition is true:' section with a dropdown set to 'Product Name' and a condition set to 'Has value'.

Customer Quotes > Quotes > Summary

HCL Leap

Customer Quote App

< Back

Rep Name Enter Your Name Rep Email your email

1) Account Customer List Search 2) Product Price Book Search - Produ

3) Installation Add hint 4) Service

Rules

Show rules related to: 3) Installation

Rule Name: Rule 4

Perform this action: 3) Installation Show

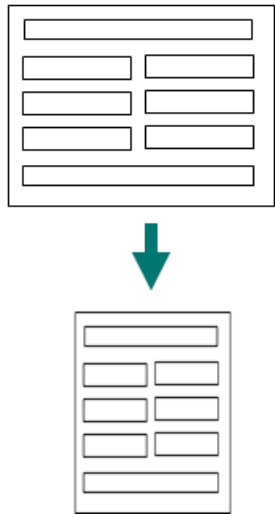
When the following condition is true: Product Name Has value

# Design apps that automatically work on any device or site



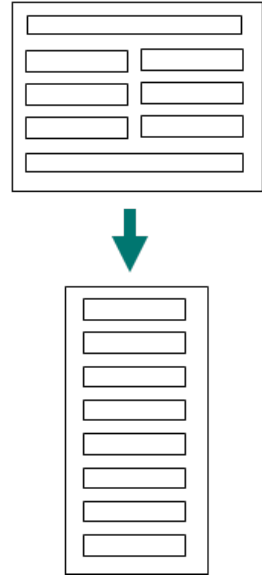
## Dynamic Width

Form page width adjusts to the width of window, portal column, iframe or device



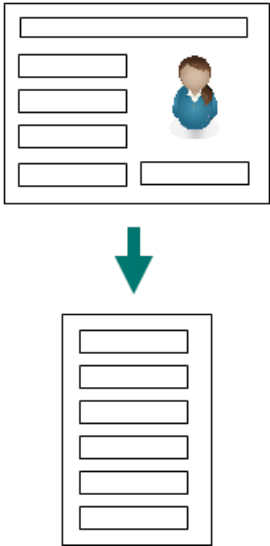
## Dynamic Layout

Form layout collapses to one column based on breakpoints selected



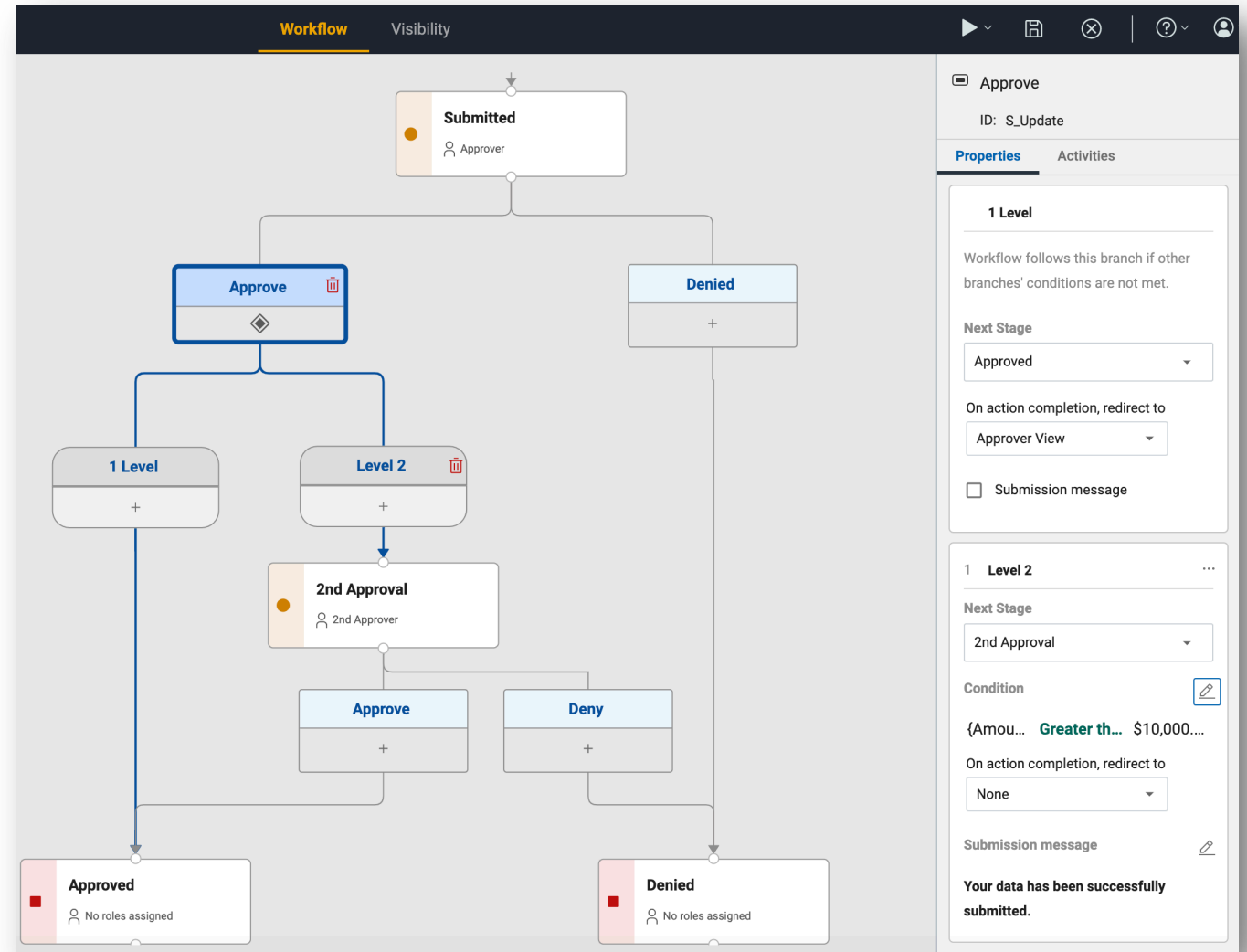
## Dynamic Rules

Rules set to determine when to show and hide elements



# Add workflows

- Move from emailing spreadsheets to an automated process
- Add workflow stages, assignments and notifications to automate approvals or steps in the process
- Lookup reporting relationships and add dynamic assignments
- Determine workflow decisions and branching
- Send reminder notifications and past due notices
- Govern access and permissions based on what workflow stage the document is in



# Empowering Citizen Developers While Maintaining IT Governance

## Controls

- How data is managed
- How users authenticate
- Whether to allow anonymous and external use
- Safeguards against malicious code, file types, sizes, etc.
- Limits on activities that might degrade performance
- Who can build and use apps

## Visibility

- Number of apps built
- Who is building apps
- What apps are being used
- How often are they used
- When was an app last updated
- Who has admin rights to the app
- How many records
- How many file attachments

## Added Value

- Custom themes
- Custom templates
- Custom widgets
- Controlled access to external data

Provide a safe, governed  
environment for all users



# Leap Success Stories



- Wanted to digitize manual processes to remove business inefficiencies
- Goal to cut IT backlog by empowering employees
- 2,000+ apps created and growing to improve business workflow processes
- Results: Reducing IT backlog requests and strengthening employee sense of ownership.

*“Within months, the system had taken off with dozens of applications springing up across the enterprise.”*

—Ralf Schliepat  
Senior Consultant at Lufthansa

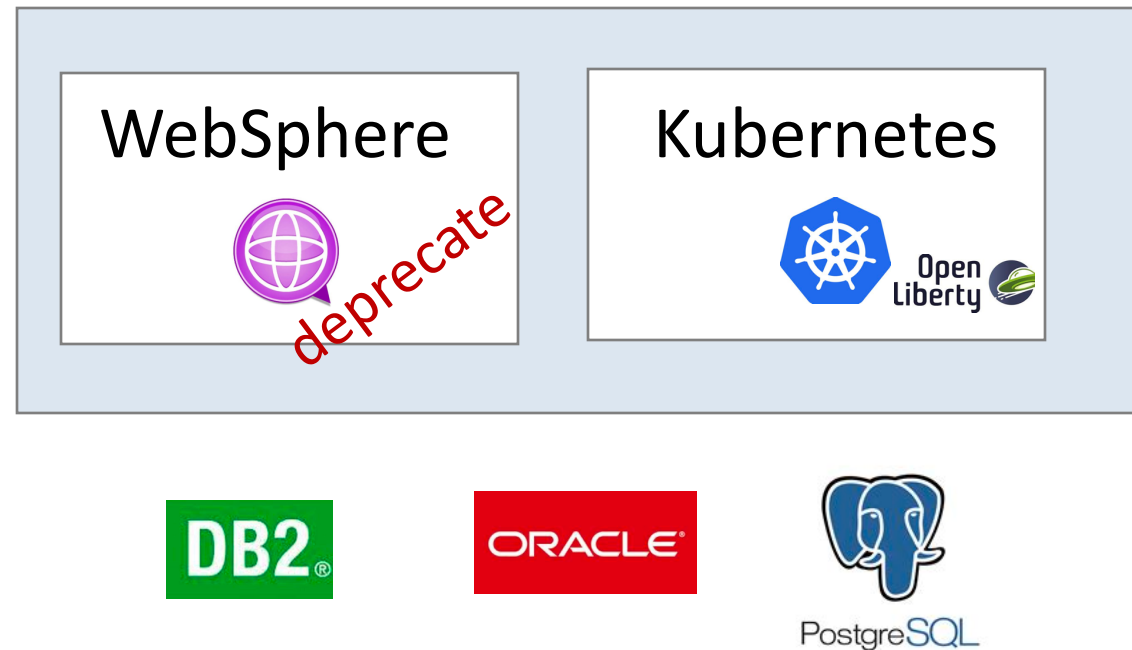
<https://www.hcltechsw.com/resources/stories/lufthansa>

# Leap runs on...

## HCL Domino Leap



## HCL Leap



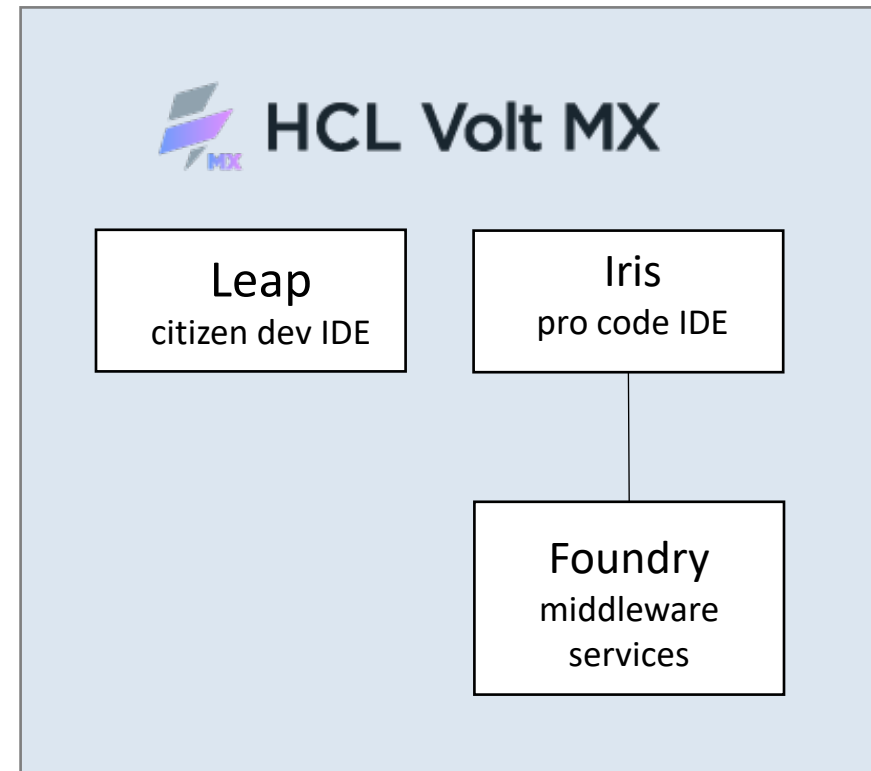
## Leap and Domino Leap

- Same code running on different platforms
- 98% + the same UI and functionality
- Same APIs for Data Access, JavaScript, App Management, etc..
- Some differences between them
  - Domino Services in Domino Leap
  - Tagging on the Manage Page in Leap
  - Reminder notifications in Domino Leap
- Efforts to pull the release cycles for Leap and Domino Leap together

## Leap is included with Volt MX and MX Go

*No longer sold standalone*

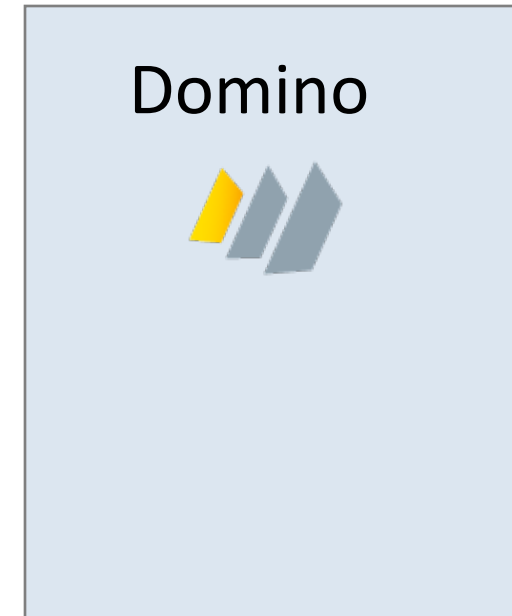
- One offering for citizen and professional developers
- Volt MX Go customer can use either Leap or Domino Leap
- Leap will become more integrated into MX over time



# Domino Leap continues to be sold as an add-on to Domino

- Domino 14 will include a limited entitlement to Domino Leap – 2 apps

 HCL Domino Leap





# What's new?

# Leap in (Open Liberty) Container with Helm Chart

Leap 9.3.2 - April

## Deploy Leap via Kubernetes

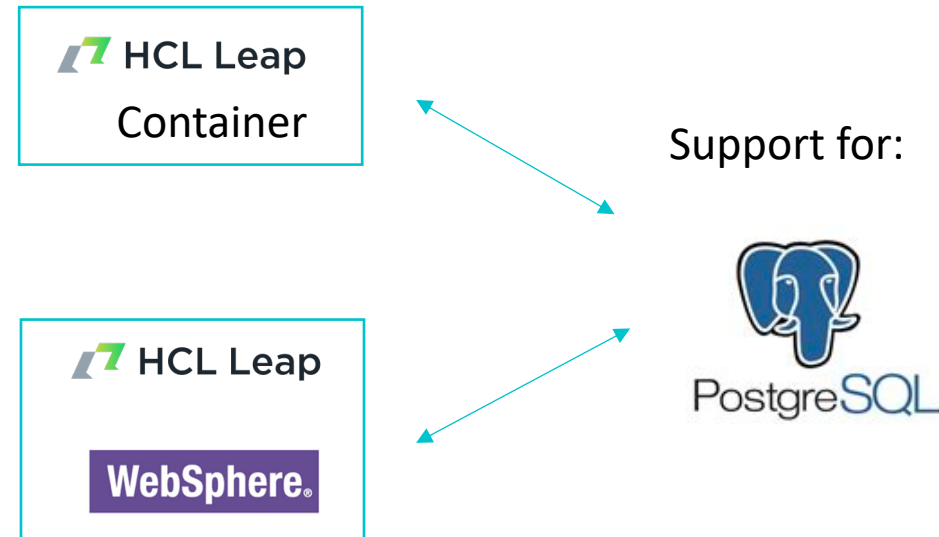
- Modern cloud native deployment
- Deploy to Azure, AWS or GCP
- Or deploy to Kubernetes on prem
- Get out of the business of managing WebSphere



# PostgreSQL Support

Leap 9.3.3 - August 2023

- Open-source database option
- PostgreSQL options with all major cloud vendors
- Can also run on prem
- Works with Leap container or traditional WebSphere deployment

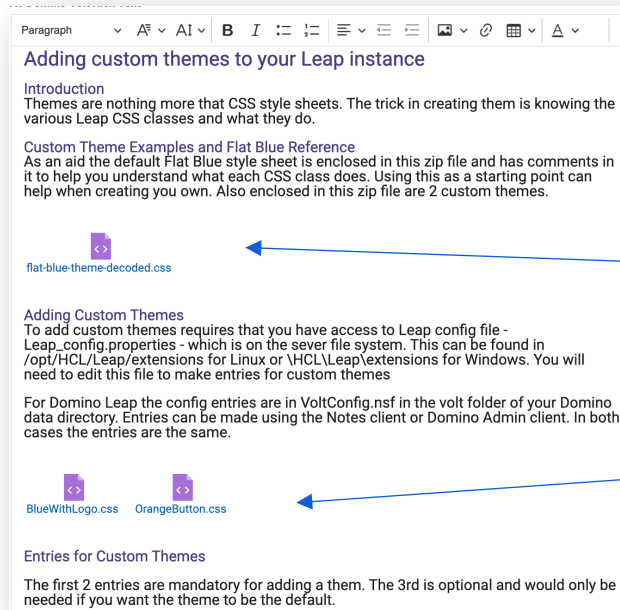


# Domino Rich Text Integration Improvement

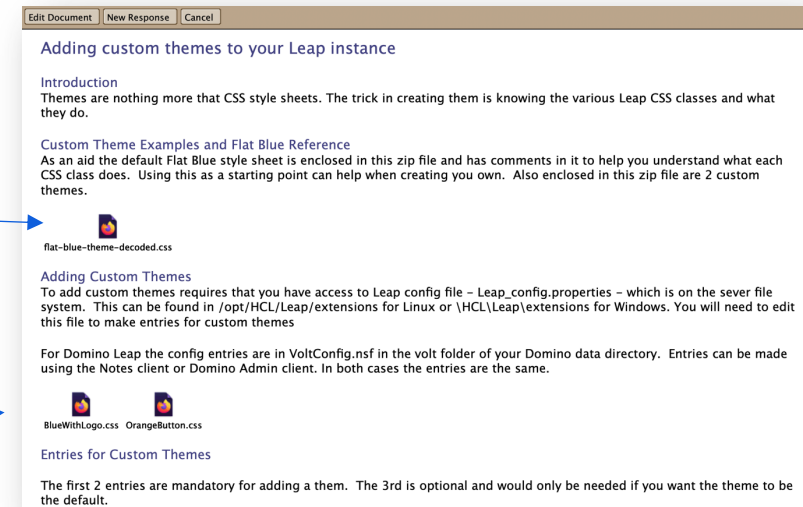
Domino Leap 1.1.1 – May 2023

Attachments stay in context in Domino Rich Text round tripping

## Domino Rich Text in Leap



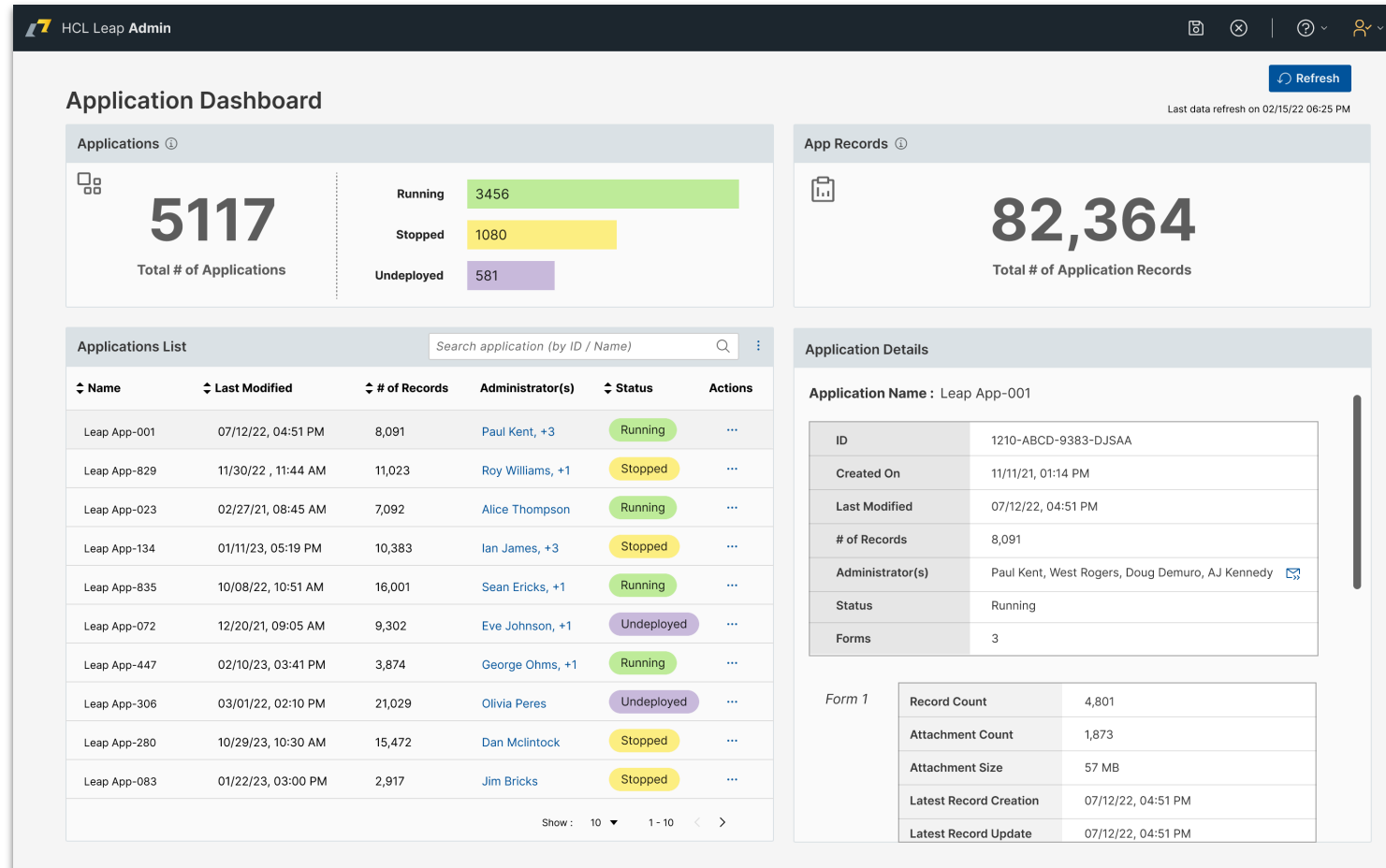
## Domino Rich Text in Notes Client



# Admin Dashboard

Leap 9.3.3 – August 2023, and Domino Leap 1.1.2 – August 2023

Visibility into number of apps, users, etc.



Can export statistics to xls or REST

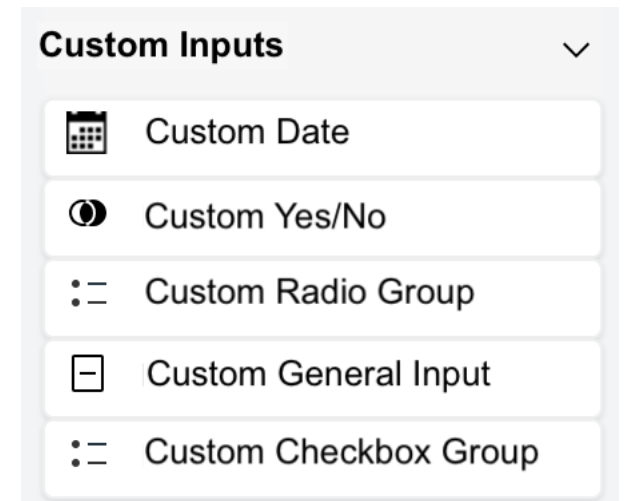
- Number of apps built
- Who is building apps
- What apps are being used
- How often are they used
- When was an app last updated
- Who has admin rights to the app
- How many records
- How many file attachments



# Leap Custom Widget API

Leap 9.3.3 and Domino Leap 1.1.2 – August 2023

- Add your custom Web Components to Leap and Domino Leap
  - Gain consistency with the rest of your digital properties
  - Add new functionality
- Components can include any HTML, CSS & JS
- Your Web Components become Widgets in Leap
  - Display Widgets and Data Widgets
  - Data Widget create fields, show in View Data
  - Use with Rules
  - Set properties
  - Have events
  - Use with services
  - etc.



# Add new behaviors, looks, functionality to Leap

Custom Widgets work like native Leap Widgets

WYSIWYG

*Custom Widgets on the Palette*

*Set Properties & Events*

*Apply Rules*

*Data Widgets create data fields*

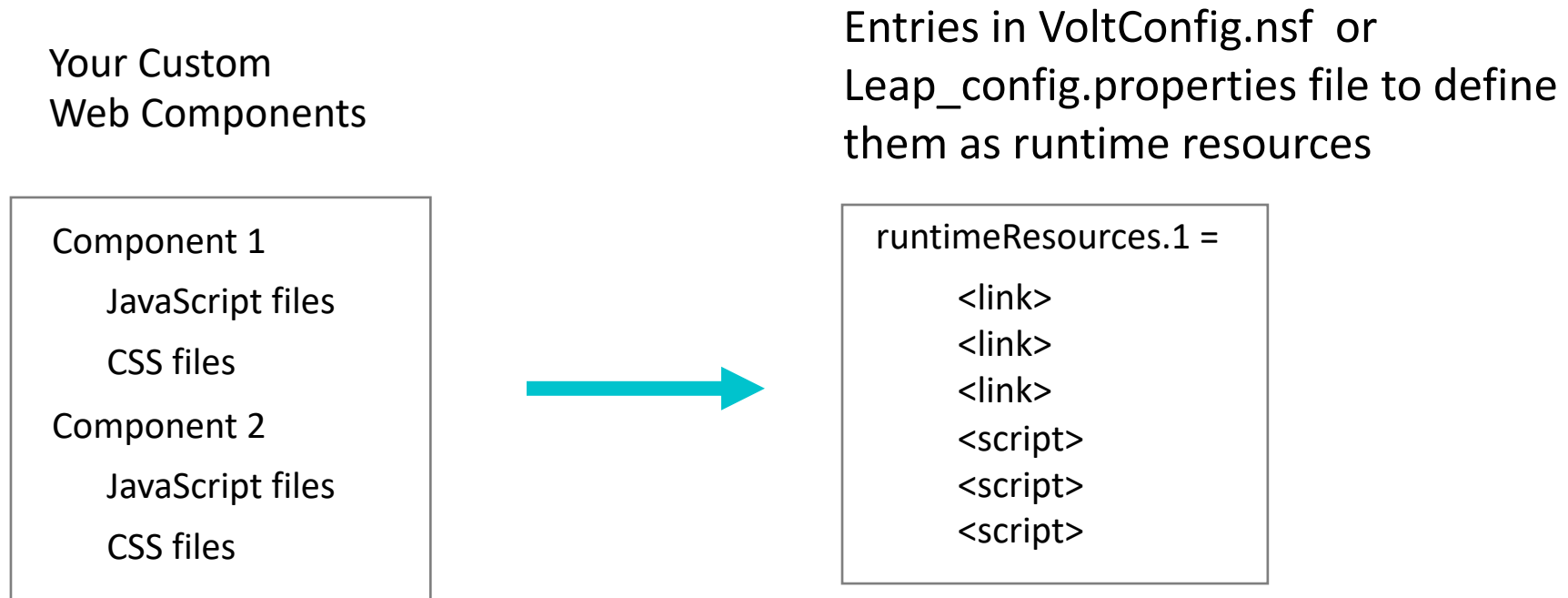
The screenshot displays the Leap IDE interface for a form titled "Demo - Marty > Form 1 > Step 1". The interface is divided into several sections:

- Left Palette:** Contains a list of widgets under the "BLDC Inputs" category, including "BLD Date", "BLD Yes/No", "BLD Radio Group", "BLD General Input", and "BLD Checkbox Group". A blue box highlights the "BLD Radio Group" widget, with an arrow pointing to it from the text "Custom Widgets on the Palette".
- Center Canvas:** Shows a form design in WYSIWYG mode. It includes a "Preview" section with a timeline, a "Heading Text" section, and a "Custom Radio Group" widget. A blue box highlights the "Custom Radio Group" widget, with an arrow pointing to it from the text "Data Widgets create data fields".
- Right Panel:** Displays the "Properties" and "Events" for the selected "Custom Radio Group" widget. It includes fields for "Explanation Text" and "Options" (Option 1, Option 2). A blue arrow points from the text "Set Properties & Events" to this panel.
- Bottom Right:** A blue arrow points from the text "Apply Rules" to the "Custom Radio Group" widget on the canvas.

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# Custom Widget API – How It Works

Registering the Widget with Leap



# Custom Widget API Doc

<

Custom Widget API

Data Widgets vs Display Widgets

Data Types

Rules

Built-In Properties

Custom Properties

Widgets with Options

Widget Instantiation

Validation

Internationalization

Usage of JavaScript API

Versioning

Upgrading

Security Considerations

Incorporating third-party libraries

Known limitations

Examples

## Custom Widget API

This API provides a mechanism to incorporate custom widgets into the

Getting started

### Product Configuration

Additional resources can be loaded into the Leap UI's by adding `ibm.ni` resources are expected to include definitions of your custom widgets and

For example:

```
ibm.nitro.NitroConfig.runtimeResources.1 = \  
  <link rel='stylesheet' type='text/css' media='screen' href='\  
  <link rel='stylesheet' type='text/css' media='screen' href='\  
  <script src='https://myWidgets.example.com/common.js'></sc\  
  <script src='https://myWidgets.example.com/MyYesNoWidget.js'></script>
```

### Registering a Widget

As your custom .js is loaded into the page, it is expected to register one

```
const myWidgetDefinition = {...};  
nitro.registerWidget(myWidgetDefinition);
```

# In-Line CSS on the Style Tab

Leap 9.3.3 – August 2023, and Domino Leap 1.1.2 – August 2023

The screenshot displays the Domino Designer interface for editing a form's style. The left pane, titled 'Deal Tracking v1.0.5', shows the 'Theme: MyTheme' and 'Custom CSS' section. The 'Custom CSS' section includes a 'Replace theme' checkbox and a dropdown menu set to 'noBanner.css'. Below this is a code editor with the following CSS code:

```
/* section title style */
.lfMn .lfFormFieldSectionTitle {
  background: whitesmoke;
  color: black;
  font-weight:normal;
}
/* set left margin on section title */
.lfMn .title {
  margin-left: 10px;
}
/* set set background and margin on se
.lfMn .expandIcon, .lfMn .section-pane
margin-left:5px;
}
/* set set background and margin on se
.lfMn .collapseIcon, .lfMn .section-pa
margin-left: 5px;
}
/* style body of section */
.lfMn .lfFormFieldWithBg {
```

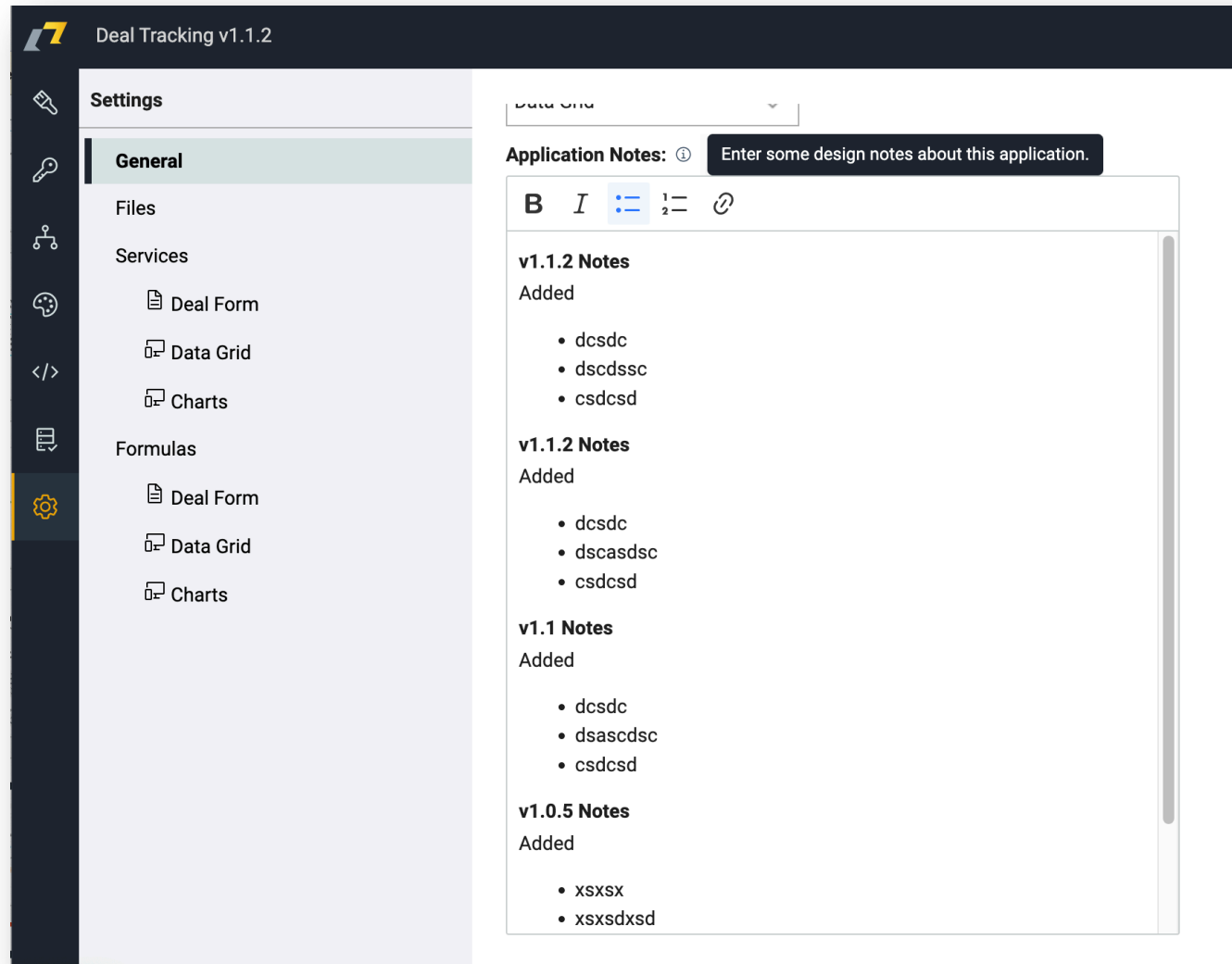
The right pane shows a 'Sample' form preview. It contains the following fields and controls:

- \* Name**: A text input field labeled 'Name' with a 'Hint' link and an 'Error' message.
- \* Address**: A text input field labeled 'Address' with a 'Hint' link.
- \* Date of Birth**: A date picker input field with a 'Hint' link and a 'Button' label.
- \* Employment**: A section with two tabs, 'Tab 1' and 'Tab 2'. Under 'Tab 1', there are three radio buttons: 'Full Time', 'Part Time', and 'Contract'.

At the bottom of the form preview, there are four buttons: 'Submit', 'Cancel', 'Back', and 'Next'.

# Application Notes

Leap 9.3.3 – August 2023, and Domino Leap 1.1.2 – August 2023



# What's next?

# Leap Web UI for Admin Config

The screenshot displays the HCL Leap Admin web interface. The left sidebar contains a navigation menu with categories: Services, Security and Privacy, Extensions and Branding, and Serviceability. The main content area is divided into two sections. The top section, 'HTTP services whitelist', features a toggle switch to 'Enable HTTP Services Whitelist' and a table of whitelisted URLs. The bottom section, 'Service Catalogs and descriptions', includes a 'Create service description' button, a search bar, and a table of service catalogs.

### HTTP services whitelist

☒ Enable HTTP Services Whitelist. Doing so will allow app authors to create REST/JSON service descriptions.

[+ Add URL to whitelist](#)

https://www.regions.com/site	GET	<a href="#">✎</a> <a href="#">✕</a>
https://www.acme-saiaforce.com	GET, POST, PUSH, DELETE	<a href="#">✎</a> <a href="#">✕</a>
http://www.acme-inventory.com	POST	<a href="#">✎</a> <a href="#">✕</a>

### Service Catalogs and descriptions

[+ Create service description](#)

Catalog	Service Name	Description	Type	Operation
Get Countries by Region				
	Get countries by region (sample)	Given a geographic region, return a list of region.	JSON	GET
Salesforce				
	Get customer by product	Provide a list of customers according the the product they ...	JSON	GET
	Post new leads	Post new leads to Salesforce.	JSON	POST
Inventory database				
Domino Directory				

- Web UI vs config file
- Set controls / limits
- Access to log information



# Leap integration with Foundry

Leap and Foundry working together

**Integration Service  
in Foundry  
consumed in Leap**

IT defines integration  
services



- Customer Data
- Product Data
- Organization Data
- etc...

Business user creates or uses  
app with Foundry service



- Leap App 1
- Leap App 2
- etc

Auth


Foundry Token

Secure  
communication  
via internet


# Leap Admin defines services via URL for the catalog

- Admin can create service definitions via URL and have them appear in the Leap service catalog
- Create once – use by many
- Admin sets service authorization
  - Who can see and use different services in the catalog

Select from Service Catalog

Selected Service:  None - find a service below

Service Catalog:



☐ Include service description in the search [Clear](#)

Add Account

Contacts

Delete Account

Get Account Details

Get List of Accounts

Update Account

# Leap on Cloud

- Targeted at Volt MX customers who want HCL to host their Leap entitlement
- Fully managed single tenant Leap instance
- Open ID Connect for SSO
- 99.95% SLA
- Based on Leap 9.3.5
- Kubernetes and PostgreSQL automated provisioning
- Foundry identity integration option

# Leap Cadence – Release Approx. Every 12 Weeks

Leap	DLeap
November 2, 2023	December 7, 2023
February 8, 2024	February 29, 2024
May 2, 2024	May 23, 2024
July 25, 2024	August 15, 2024
October 17, 2024	November 7, 2024
January 23, 2025	February 13, 2025

- 9.4 and 1.1.3
- Improve to how we handle secrets with K8 deployment
  - Bug fixes
  - Workflow UI improvements

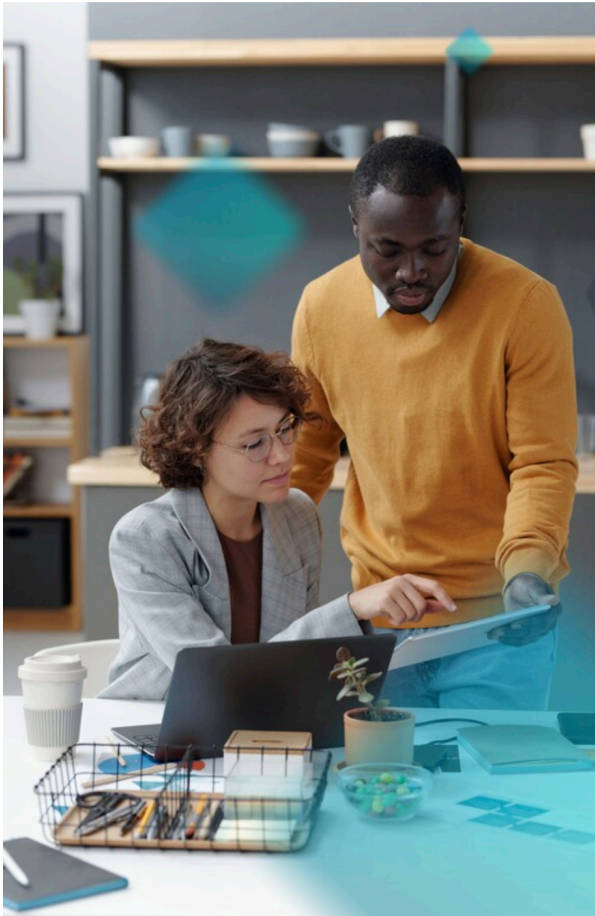
- In the queue
- [Admin web-based configuration](#)
  - [Admin – from URL](#)
  - [Foundry integration](#)
  - [Send email service](#)
  - [Leap on cloud](#)
  - App from spreadsheet improvements
  - Reminders – Leap
  - Multiple attachments
  - Updated manage page
  - Updated themes
  - Full text search - including attachments
  - Accessibility fixes
  - Team authoring
  - CMS integration
  - Versioning

## Summary

- Leap is for Citizen Developers
- Leap and Volt MX
- Domino Rich Text Integration
- New Leap Deployment Options
- New Admin Dashboard
- New Custom Widgets
- Other Nice New Things



# Resources



## Start Your HCL Volt MX Journey Today

Sign up for our free account to explore our platform's powerful low-code capabilities built for both citizen and professional developers.

Your free account includes:

- Leap: IDE for citizen developers to build apps in minutes
- Volt Iris: IDE for professional developers
- Volt Foundry: Backend services management
- Support and training: Guided paths to get the most out of your free account before you commit

First Name\*

Last Name\*

Email address\*

Company\*

Country\*

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