

# IBM INFORMIX

14.10

# CONTINUOUS INVESTMENT

## STRATEGIC EVOLUTION OF THE INFORMIX OFFER

### ROADMAP ACCELERATION

- Bring more IBM Informix value to the market with new interfaces and innovative features.
- Improve customer value, experience and loyalty.
- Committed to customers to incorporate new needs in the product roadmap and address new opportunities for improvement.
- Enable hybrid cloud.

### MARKET EXPANSION

- Target new application developers with new programming languages and graphical administration tools.
- Offer IBM ICP support for data.
- More professionals trained, which will translate into more experience available to hire.
- Publishing new success stories and material to help clients get started faster.
- Increase partnerships with OEMs and ISVs.

### IOT/ EDGE FOCUS

- Present the power of IOT with Informix. TimeSeries, JSON, Geospatial, and a whole new world of peripheral device connections.
- Framework IOT frameworks plugin.
- Create new partners across the entire HW manufacturer ecosystem.
- Implement workshops for clients and partners.
- Leverage Informix on Watson IoT and integrated partner solutions.

## STRATEGIES

TO MODERNIZE 4GL APPLICATIONS THERE ARE 3 OPTIONS:



**01.** Use a container to make applications visible on the web.



**02.** Java source code conversion.



**03.** Use a migration platform using software engineering.

MORE THAN 30 YEARS PROVIDING

01

IOT extensibility

02

Increased speed

03

Cloud and Cloud  
access

04

More security

05

Improvements

06

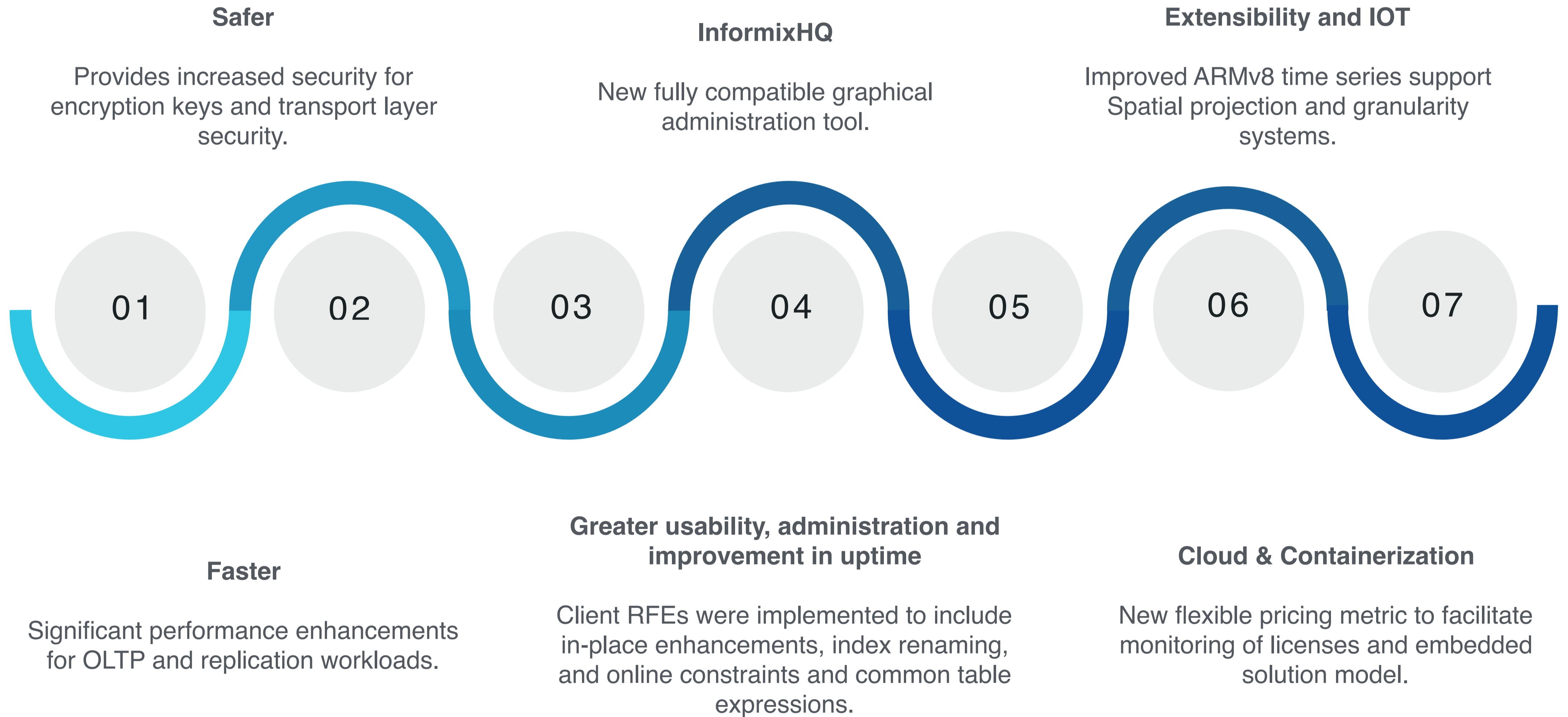
Informix HQ



**What improvements  
Important offers  
IBM Informix 14.10**

## MORE THAN 30 YEARS PROVIDING

www.deister.net



## WHAT IS INFORMIX 14.10?

### 14.10 is faster!

- Significant performance improvements in secondary SDS, RSS, and HDR updates - up to 5x more.
- OLTP transaction throughput: up to 10% faster than 12.10.
- Java UDR performance improvements: up to 40% faster.
- JSON and REST listener performance improvements: up to 2x faster.
- JDBC Smart Large Object Access Speed Improvements: Over 60%.

### Log replay performance improvements

- Sending and applying transactions to secondary instances (RSS, SDS, HDR) have been optimized for performance under high load conditions.
- Performance tests show up to a 5x increase in performance compared to Informix v.12, benefiting all customers using these data availability solutions.
- Similar improvement seen in crash recovery performance.
- New configuration parameters for performance tuning.
- 'onstat -g laq' to show the replication latency and replay rate of the record.



## WHAT IS INFORMIX 14.10?

### 14.10 IT'S SAFER

- **The external keystore provides increased security for encryption keys. Integrated encryption for onbar and ontape backups:**
  - Informix backup and restore utilities now have the ability to internally encrypt and decrypt your storage.
  - On-Bar, ontape, archecker, onlog utilities are supported.
  - Dbspace, blobspace, smart blobspace, and log log backup data can be encrypted.
  - The Amazon AWS Key Management Service (KMS) is used to generate and store encryption keys for your backups.
  - The encryption key is itself encrypted and stored along with the data.
  - The same utilities also offer an easy way to encrypt and decrypt data using a locally supplied static encryption key.
  - Latest encryption support.
  - Smart Trigger audit trail.

## WHAT IS INFORMIX 14.10?

### BETTER USABILITY AND MANAGEMENT

- Unicode specification support update.
- New commands to automate the configuration of Enterprise Replication between two servers.
- An Informix binary with simple key-based license to upgrade from edition to edition.
- **Simplified installation for 14.10:**
  - The "Base" image is the Developer Edition.
  - Install the Developer Edition.
  - Run the editing installer.
  - Eliminates the need to completely reinstall the product for a new edition. "Promoting" or "demoting" an existing facility is a simple operation.
  - The solution goes through DevOps (development, testing, organization, production) without reinstalling Informix.



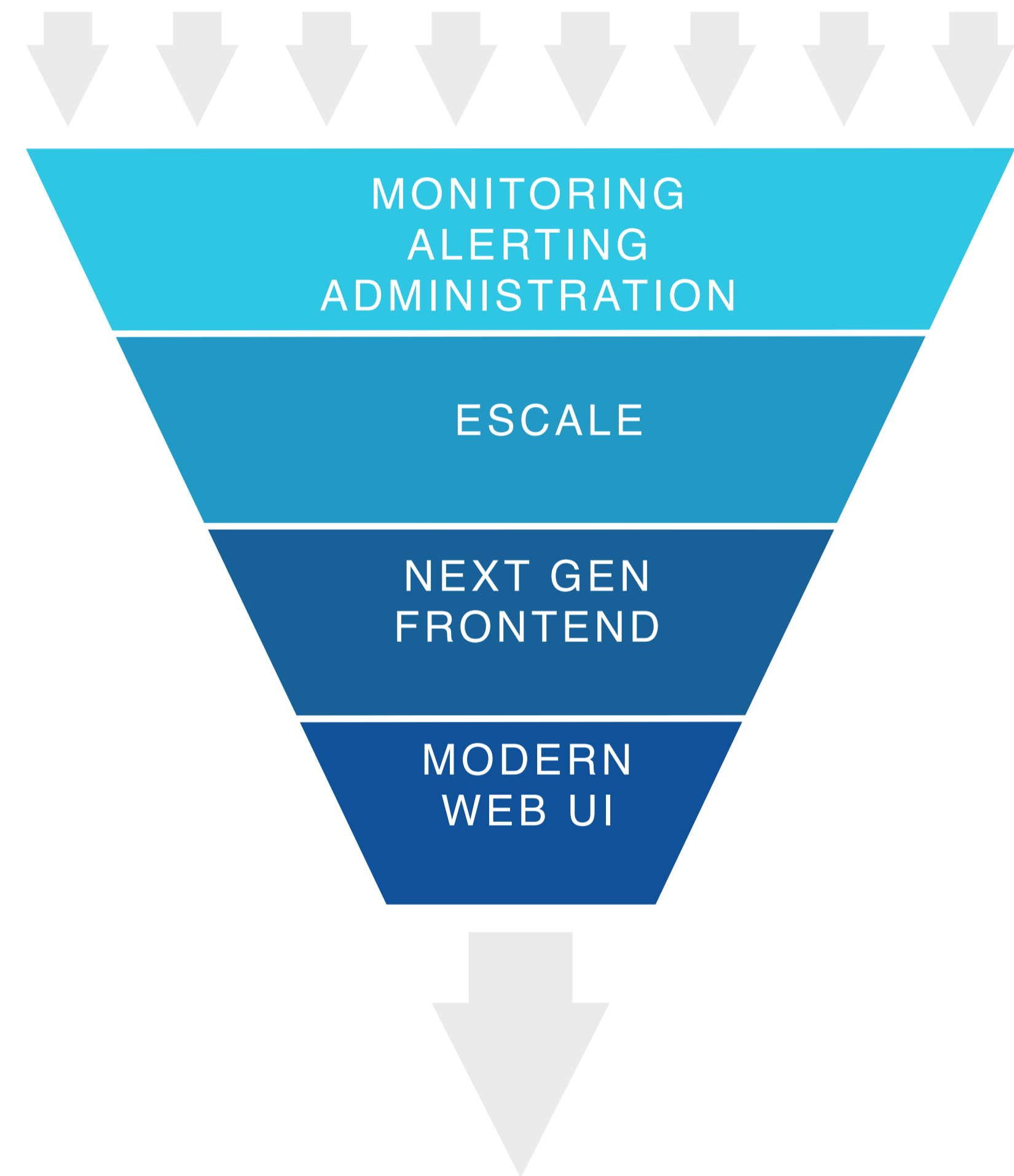
## WHAT IS INFORMIX 14.10?

### IMPROVES UPTIME

- **Slow ALTERs are very heavy and therefore generally avoided, but in 14.10:**
  - **Many slow ALTERs have been improved to be ALTER onsite:**
    - Alter the character data of a person.
    - Alteration between types INT, BIGINT, INT8, SERIAL, BIGSERIAL, SERIAL8.
    - With these ALTER improvements in place, some index rebuilds.
- **Modifying Primary Key (PK) columns may require downtime when verification constraints and foreign keys (FK) exist, but in 14.10:**
  - You can avoid and / or postpone the reconstruction of the verification constraints and FK for PK ALTER among many types INT, BIGINT, INT8, SERIAL, BIGSERIAL, SERIAL 8.
  - Many new ALTER PK syntax additions have been added to Informix SQL.

## WHAT IS INFORMIX 14.10?

### INFORMIX HQ

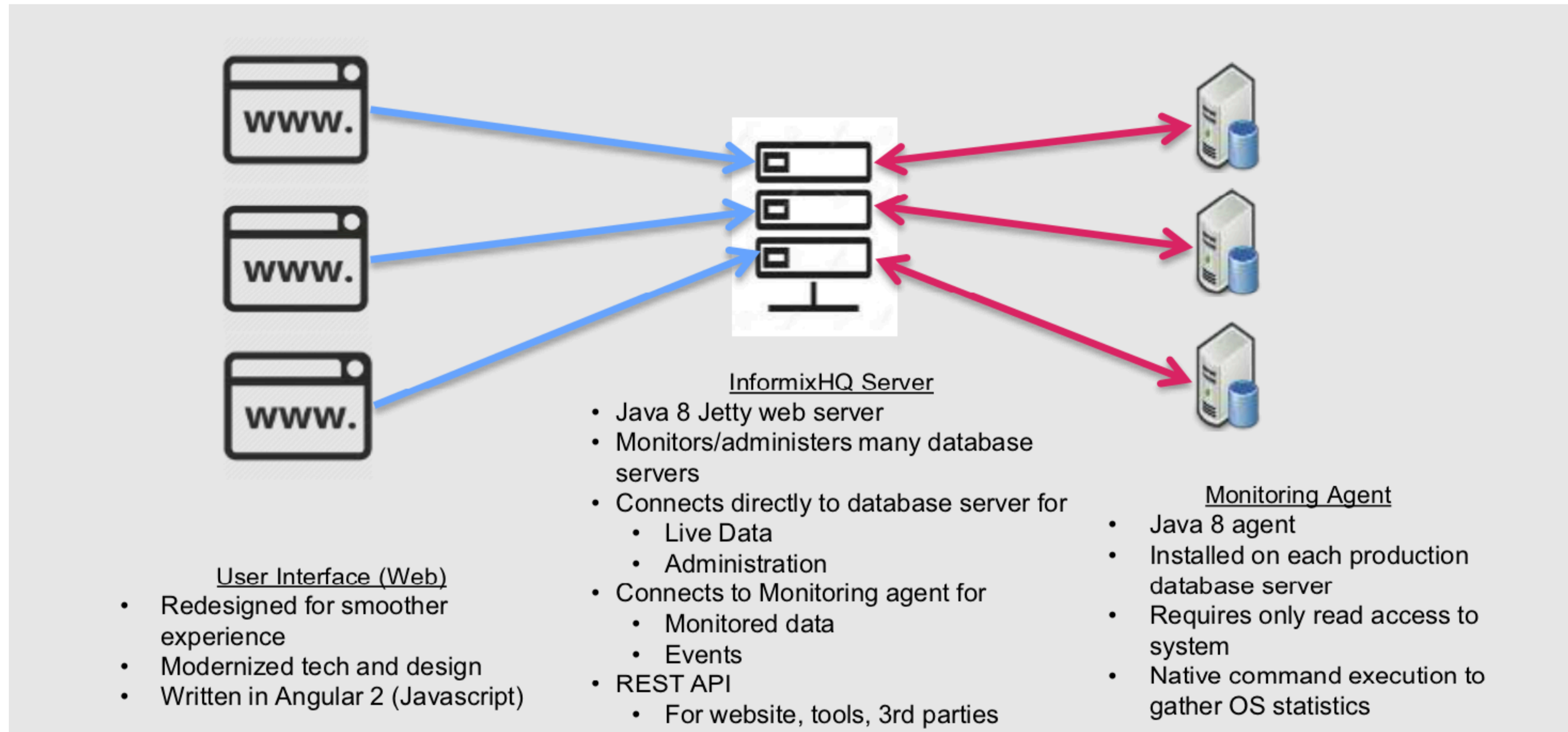


#### New web administration and monitoring tool!

- Integrated with all versions of Informix with full support.
- Supports integration with modern IT infrastructure tools like Pager Duty, Twilio, Email.

# WHAT IS INFORMIX 14.10?

## ARCHITECTURE



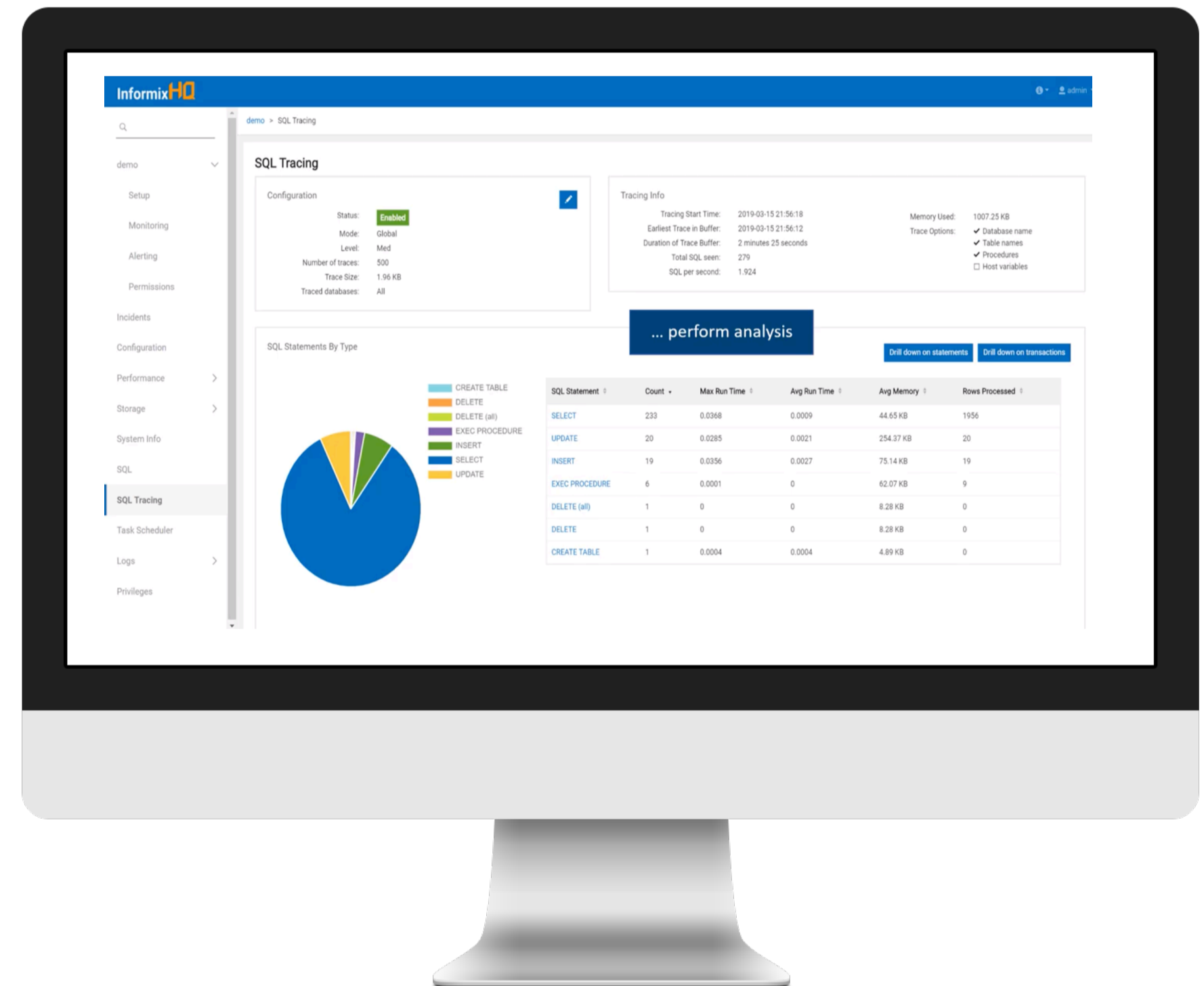
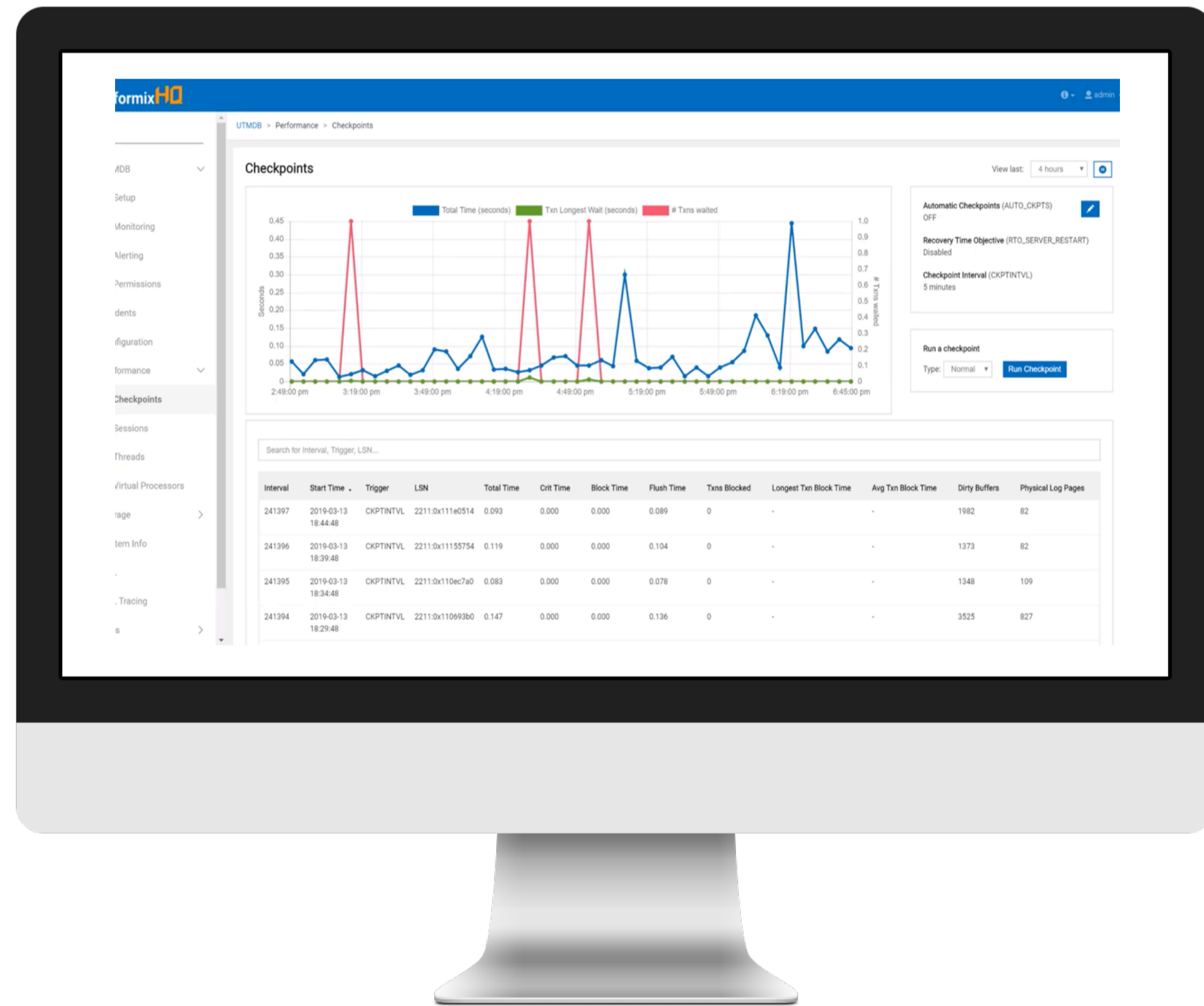
# WHAT IS INFORMIX 14.10?

## INFORMIX HQ



# WHAT IS INFORMIX 14.10?

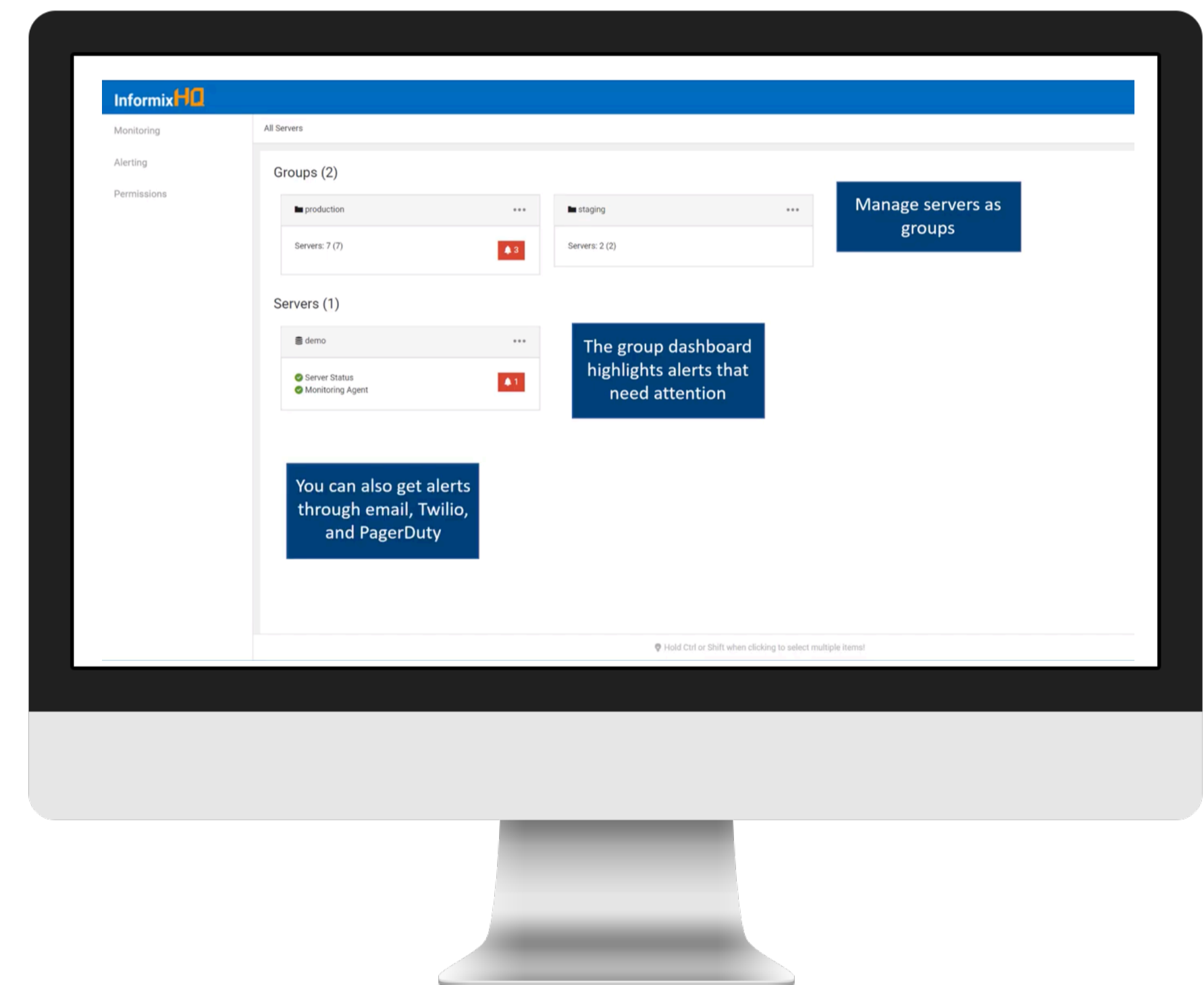
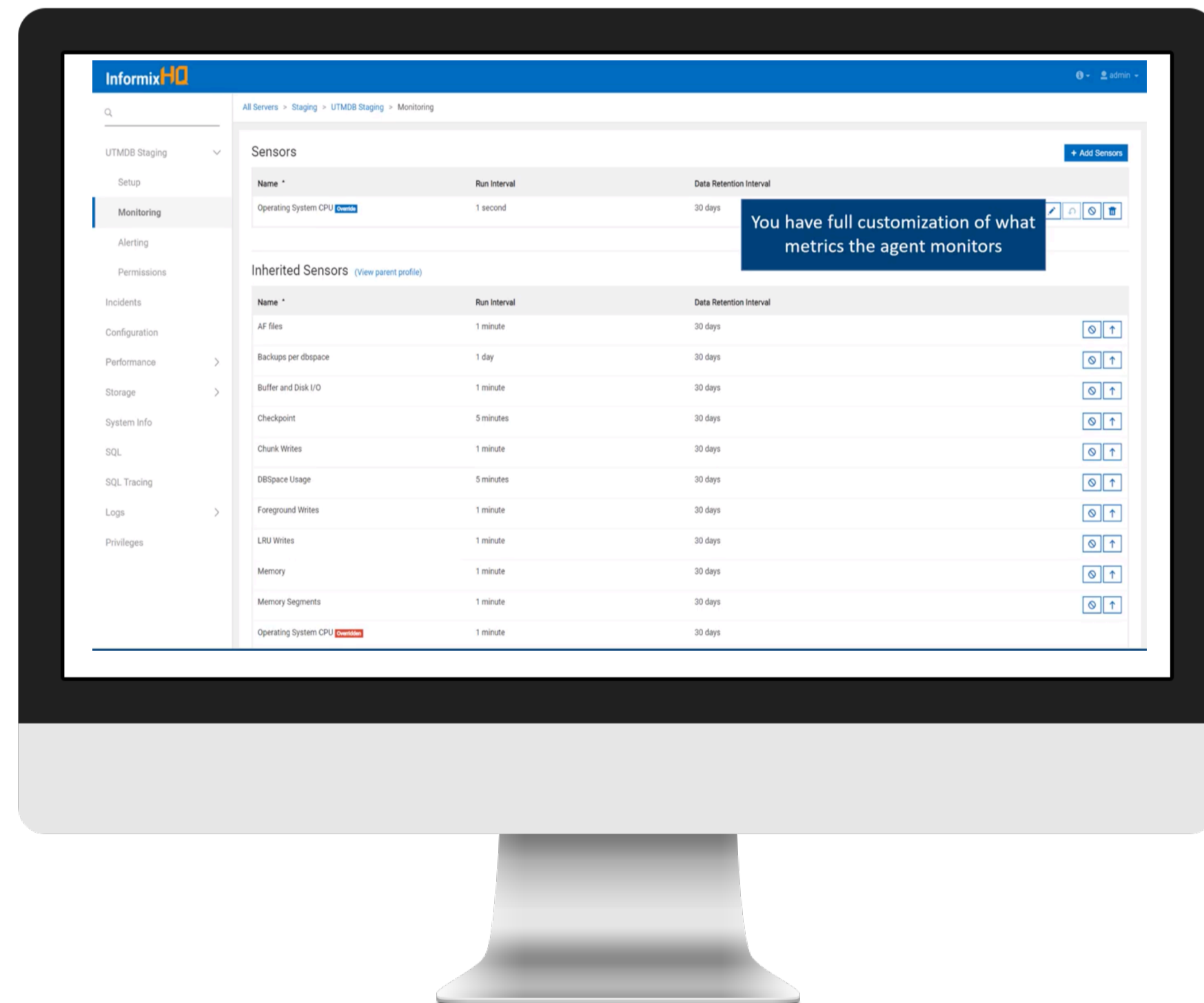
## INFORMIX HQ





# WHAT IS INFORMIX 14.10?

## INFORMIX HQ





## WHAT IS INFORMIX 14.10?

INFORMIX IS STILL A GREAT CHOICE FOR THE CLOUD!

### Improve uptime!

- IBM Cloud remains a flexible and preferred choice for Informix deployments, now updated with 14.10!
- Presence in the IBM Cloud Private for Data (ICP4D) catalog.
- Informix in the hybrid cloud.



## WHAT IS INFORMIX 14.10?

### IMPROVEMENTS IN EXTENSIBILITY AND IOT!

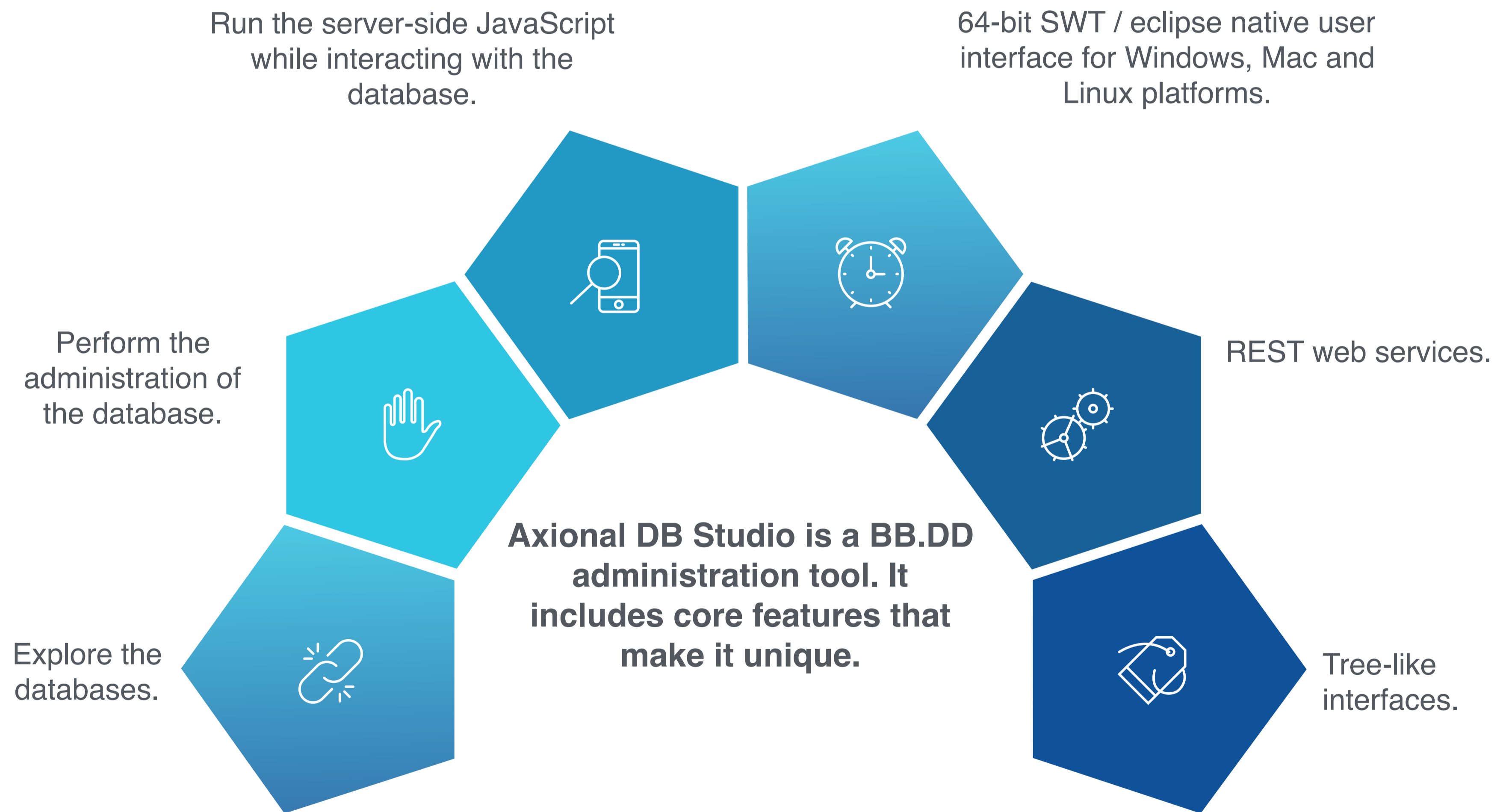
#### Improve uptime!

- ARM v8 support.
- Count the number of objects in a given region in a given time range.
- Tstamp flagship type for the usability of TimeSeries.
- Count and find the missing readings for a given sensor or meter.
- Support for geodetic and projection systems other than WGS 84.
- GPS readings below one second (1/10 of a second timestamp).



# AXIONAL DB STUDIO

INTEGRATED BD INFRASTRUCTURE MANAGEMENT



deister software

Sant Pere Claver, 15

08017 Barcelona (Spain)

Carretera Fuencarral a Alcobendas, 14-B, 5°C

Edificio Baluarte

28049 Madrid (Spain)