UiPath

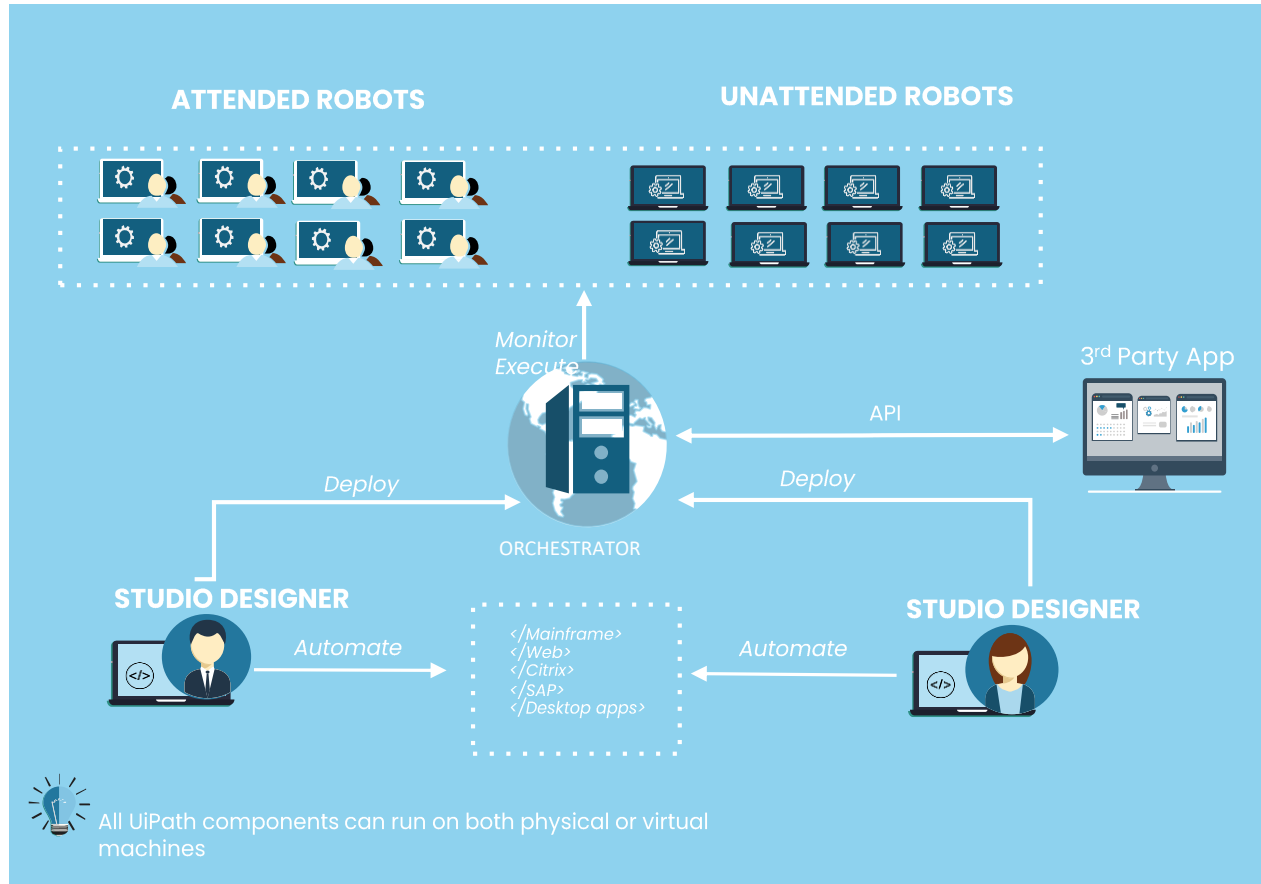# Solution Architect

Product Architecture

UiPath High Level Architecture

The UiPath Orchestrator manages robots specifically developed for customer front and back office processes.

ATTENDED ROBOTS

UNATTENDED ROBOTS

Monitor
Execute

3rd Party App

API

Deploy

Deploy

ORCHESTRATOR

STUDIO DESIGNER

STUDIO DESIGNER

Automate

</Mainframe>
</Web>
</Citrix>
</SAP>
</Desktop apps>

Automate

All UiPath components can run on both physical or virtual machines

1. Attended Robot: delivers low costs and higher performance with front office agent- supporting automation features.

2. Unattended Robot: these robots utilize unattended automation to run high back office transaction volumes in batch mode.

3. UiPath Orchestrator: Enterprise architecture server platform supporting: release management, centralized logging, reporting, auditing and monitoring tools, remote control, centralized scheduling, queue/robot workload management. assets management.

4. UiPath Studio: enables users to automate with highly intuitive tools (not code): process recorders; drag & drop widgets & best practices templates.
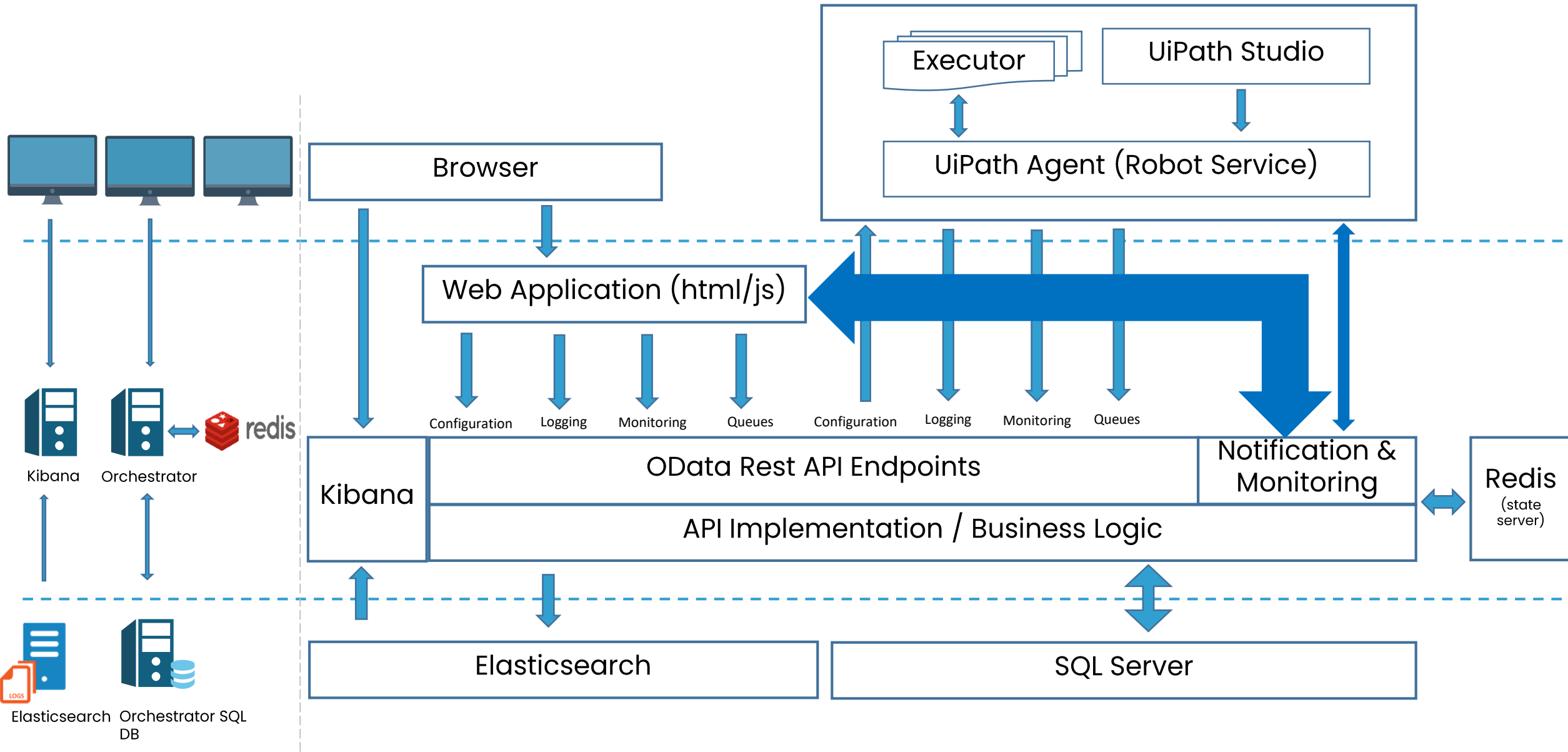
All UiPath products and features reside within a platform architecture designed to provide strong security, enterprise grade compliance & robust governance.

UiPath Architecture

High Level view of the Server Architecture

Tier 1
Client layer

Robot
Agent Service
Executor Service

Developer
Uipath Studio

Admin
Web browser

Tier 2
Server layer
MS Windows

Orchestrator
Web application
Monitoring
Deployment
Configuration
Queue management
Loggin

Orchestrator
Web services
Monitoring API
Deployment API
Configuration API
Queue API
Loggin API

Tier 3
Persistency layer
SQL Server

Main DB
Robot configuration
Robot groups
Assigned processes
Queues
Queue items

Indexer DB
Store logs
Index logs

Component Diagram

Attended or Unattended Robot?

ATTENDED ROBOT

- **Definition:** A robot that works with human agents side by side, and assists them in completing processes automatically

- **General use**: in manual, repetitive, highly rule based activities containing decision points that require human intervention, due either to the necessity of pure judgmental calls or to the high complexity and volatility of process inputs

- **Best fit for:** Service Desks, Helpdesks and Call Centers

- **Communication with Server**: bi-directional
  - *Robot to Server*: execution logs, automated process upload
  - *Server to Robot*: automated process version deployment **only**
- **Features**:
  - release management (automatic update/rollback)
  - agent assisted mode
  - centralized logging, reporting and auditing tools
  - queue/robot workload management
  - asset management

Attended robots share the desktop with a human user. They can only be triggered manually through a human action on the local machine, and do not support remote running or scheduling.

UNATTENDED ROBOT

- **Definition:** A robot that works in an unattended manner, independently of any human action

- **General use:** in manual, repetitive, highly rule based back office activities not requiring any human intervention

- **Best fit for:** *a*ny type of back office activity prone to automation

- **Communication with Server**: bi-directional
  - *Robot to Server*: execution logs, automated process upload, robot status
  - *Server to Robot*: automated process version deployment, start or reset processes

- **Features**:
  - release management (automatic update/rollback);
  - centralized logging, reporting, auditing and monitoring tools
  - remote control
  - centralized scheduling
  - queue/robot workload management
  - asset management

Unlike Attended robots, Unattended robots can be triggered remotely, directly from the server.

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