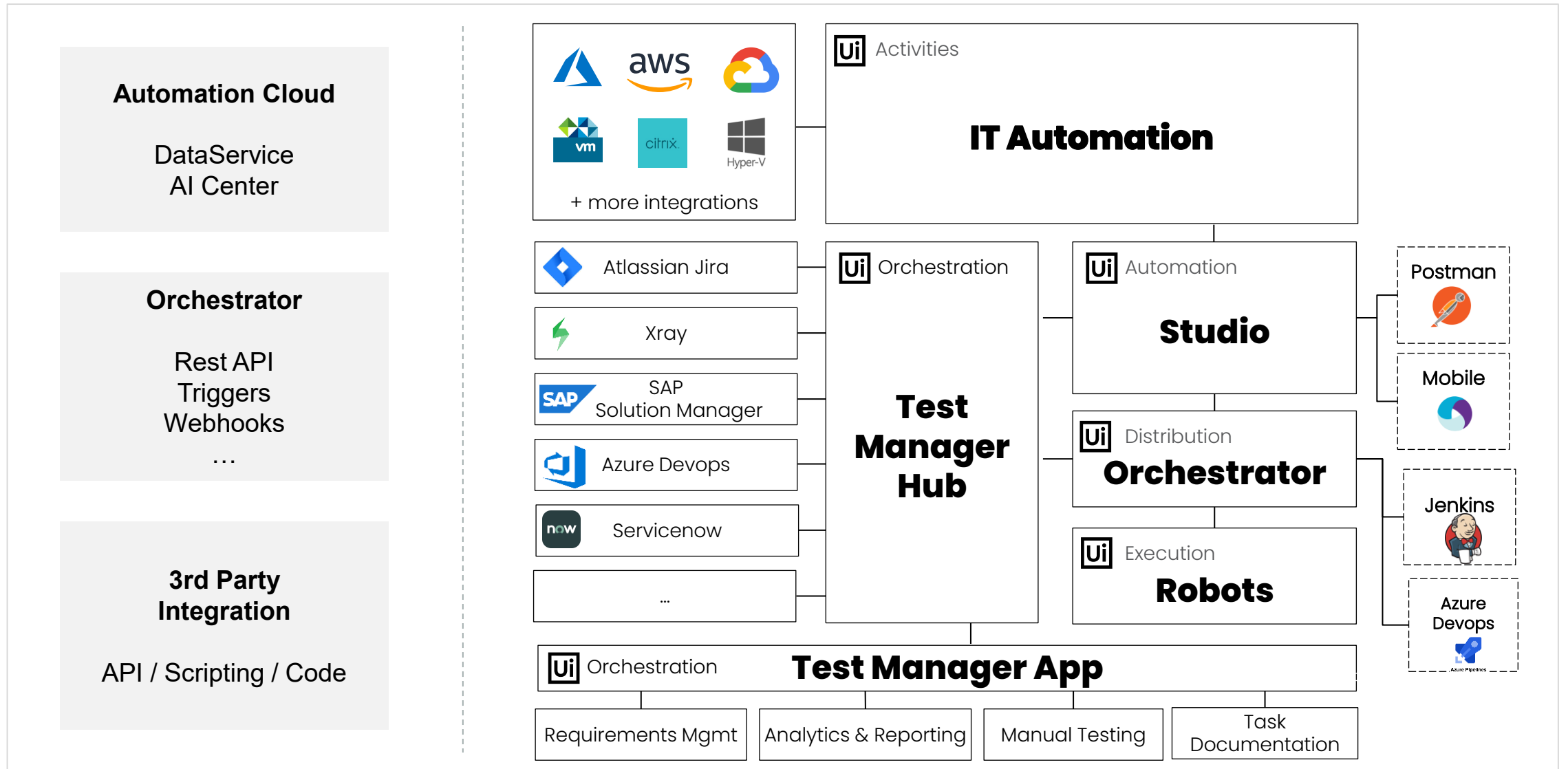




Robots Auto-Healing powered by UiPath IT Automation

Andrei Oros

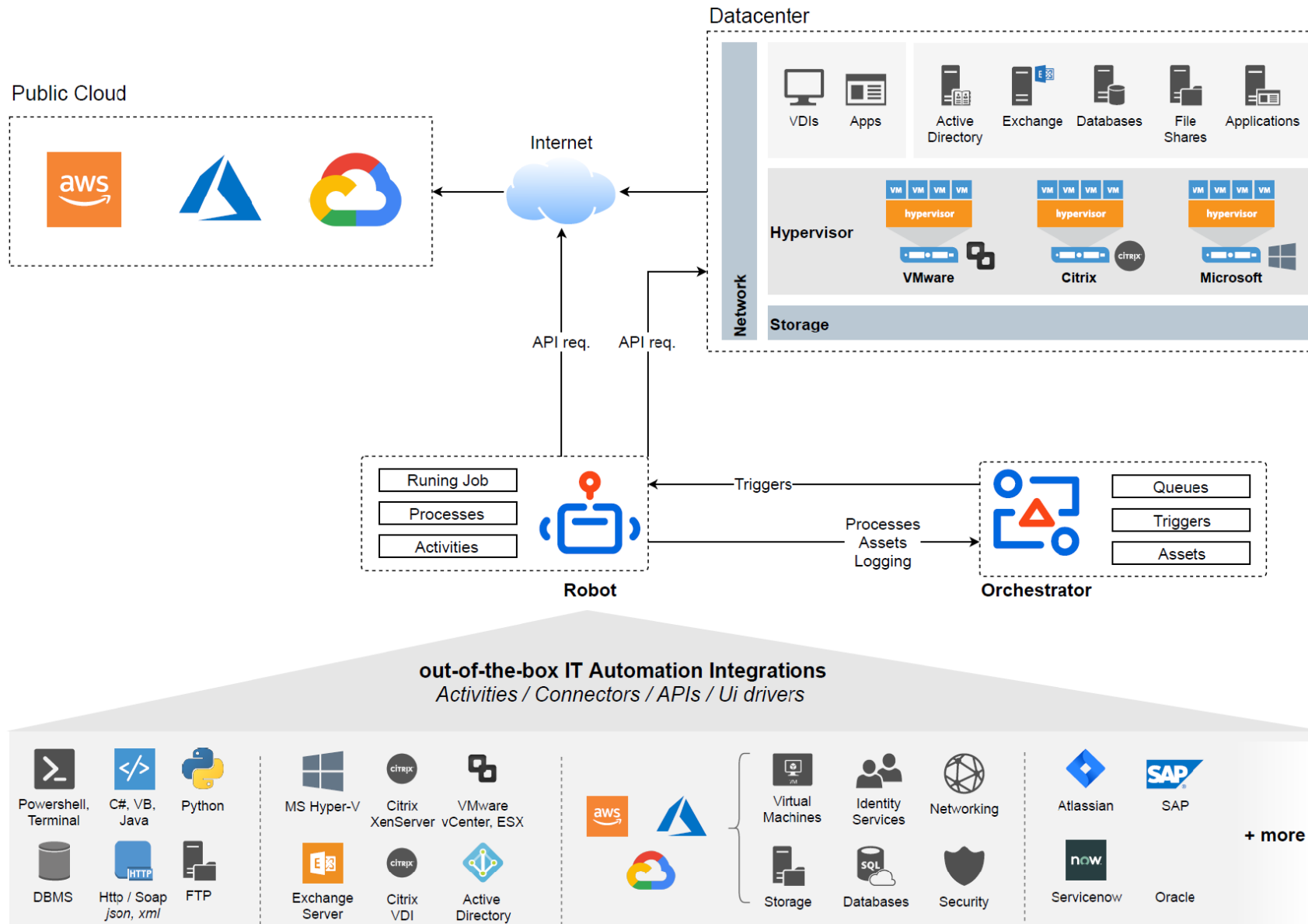
UiPath Platform for Low Code Development



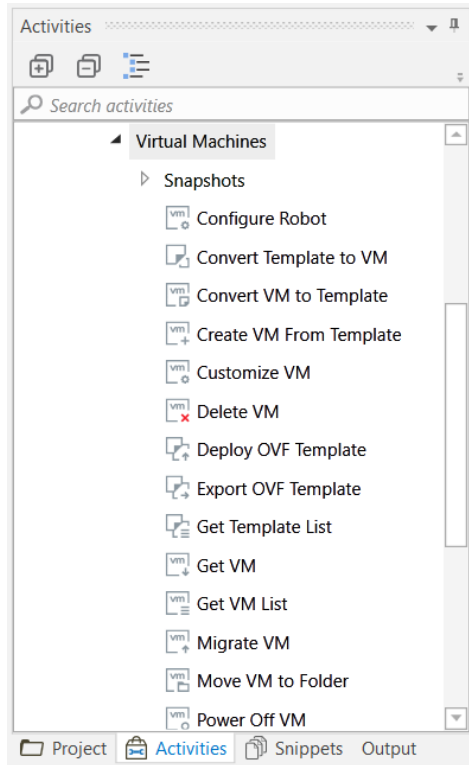
Works everywhere *



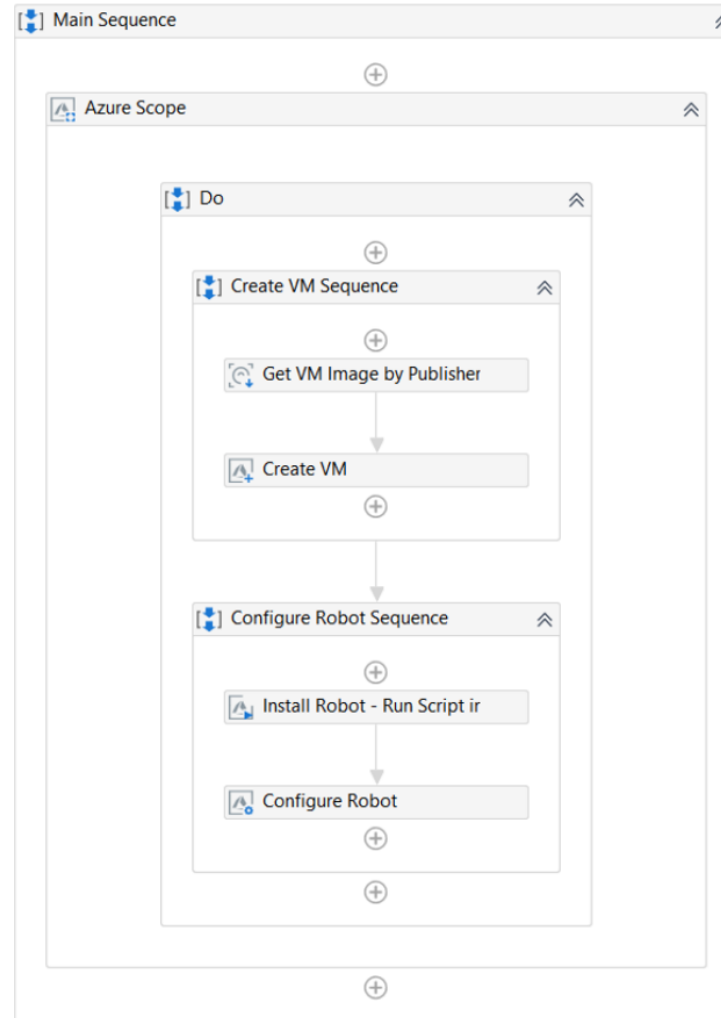
uipath.com/it-automation



Low Code. UI + API Automation



Free from Official Feed (LTS)
Background Running (via SDKs)



DevOps
Infrastructure as Workflow

Easy
create automations with out-of-the-box drag & drop official UiPath IT Automation activities

Vendor agnostic
Azure, AWS, Google Cloud
VMware, Citrix, Hyper-V

Transparent
easy to understand & inspect
business logic



Unattended Robots Autoscaling

marketplace.uipath.com/listings/uipath-unattended-robots-auto-scaling

<https://github.com/UiPath/IT-Automation-Workflow-Solutions>

DB Clients Configs

RobotsCold 50
RobotsHot 10
Infrastructure
Environment RAS
Folder Default
client_(x)

RobotsCold 10
RobotsHot 2
Infrastructure
Environment E2
Folder F2
client_1

RobotsCold 80
RobotsHot 5
Infrastructure
Environment E1
Folder F1
client_1

Management Orchestrator

<input type="checkbox"/>	NAME ^	PROCESS	ENVIRONMENT
<input type="checkbox"/>	ProcessQueueItems	ProcessQueueItems_RAS	RAS

1

Jobs started by scheduled trigger

2

get the client info from the database

get the client state: jobs, robots, ..

3

select machines to start/stop & apply

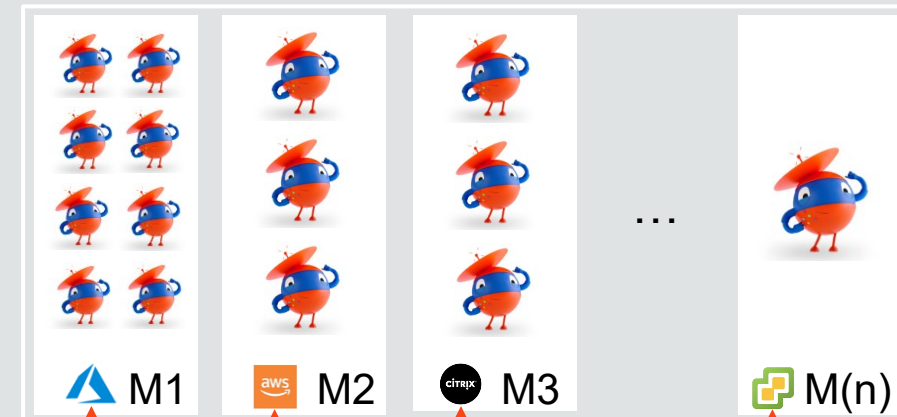
4

<input type="checkbox"/>	PROCESS	ROBOT	ENVIRONM...	STATE	STA...	ENDED
<input type="checkbox"/>	ProcessQueueItems_RAS	AdminRobot1	RAS	Successful	a minute ago	a few seconds ago
<input type="checkbox"/>	ProcessQueueItems_RAS	AdminRobot1	RAS	Successful	3 minutes a...	3 minutes ago

/ POC_DemoAWS_WF_RobotAutoScaling					
Search <input type="text"/>					
User: All State: All Priority: All Source: All					
<input type="checkbox"/>	PROCESS	ROBOT	MACHINE	ENVIRONMENT	STATE
<input type="checkbox"/>	Fake Work	T204F5031-R2	T204F5031-R2	RAS	... Pending
<input type="checkbox"/>	Fake Work	T204F5031-R3	T204F5031-R3	RAS	... Pending
<input type="checkbox"/>	Fake Work	Pending allocation		RAS	... Pending

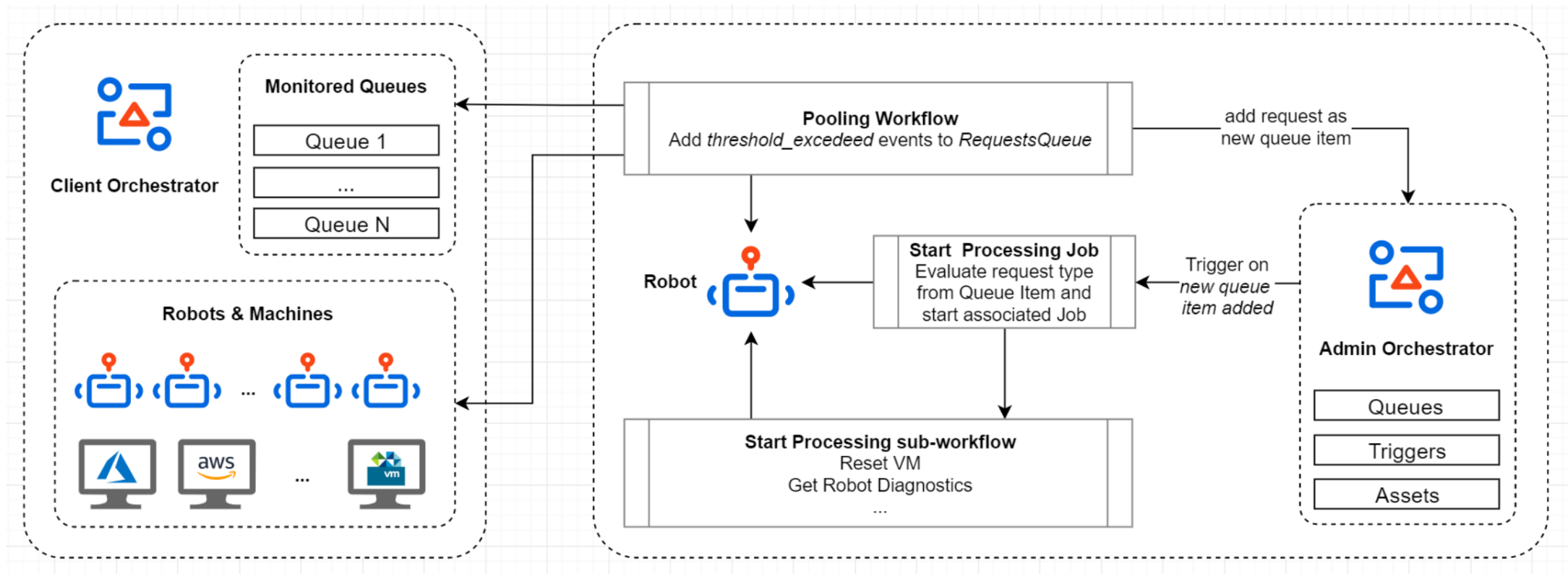
client_1 jobs

client 1 machines



Robots Auto-Healing

- ✓ Robot Service. Restart
- ✓ Failed Jobs. Fix Chrome Extension
- ✓ Monitoring. Queue Item in progress
- ✓ Monitoring. Unresponsive Apps, ..
- ✓ Monitoring. App Version Changes
- ✓ Monitoring. CPU / RAM / HDD



Robots Auto-Healing. Demo



Robot Service. Restart



Failed Jobs. Fix Chrome Extension



Monitoring. Queue Item in progress



Monitoring. Unresponsive Apps, ..



Monitoring. App Version Changes



Monitoring. CPU / RAM / HDD

All Unread By Date ▾ ↓

▼ Today

Password NO Reply
RSH Notification 5:37 PM

Queue Items exceeding the <in progress> time limit:
[RSH \ rsh3] started 09/16/2021 13:31:55 exceeds

Password NO Reply
RSH Notification 5:36 PM

Re-Installed Chrome Browser Extension in VMs:
RSH-MONITORED1 If problem persists, please rdp

Password NO Reply
RSH Notification 5:34 PM

Running Machines with disconnected robots: VM [RSH-Monitored1] UiRobotSvc had State =Stopped

> Tuesday

> Last Month

> Older

RSH Notification



Password NO Reply
To Andrei Oros

Queue Items exceeding the <in progress> time limit:

[RSH \ rsh3] started 09/16/2021 13:31:55 exceeds defined InProgress time limit - please check.
[RSH \ rsh2] started 09/16/2021 13:31:55 exceeds defined InProgress time limit - please check.
[RSH \ rsh1] started 09/16/2021 13:31:55 exceeds defined InProgress time limit - please check.

Running Machines with disconnected robots:

VM [RSH-Monitored1] UiRobotSvc had State =Stopped and RSH successfully restarted it - robots should be now available in Orchestrator.

Re-Installed Chrome Browser Extension in VMs: RSH-MONITORED1 If problem persists, please rdp into the machines and check if the UiPath extension is enabled in the browser.

Robots Auto-Healing



Robot Service. Restart



Failed Jobs. Fix Chrome Extension



Monitoring. Queue Item in progress



Monitoring. Unresponsive Apps, ..



Monitoring. App Version Changes



Monitoring. CPU / RAM / HDD

marketplace.uipath.com/bundles/it-automation

UiPath's vision for the "Automation First" era has led to the addition in its market-leading Enterprise RPA Platform of dedicated official out-of-the-box IT Automation capabilities that empower all companies to take their Digital Transformation to the next level. IT Automation helps you respond faster to IT requests and incidents, increase efficiency to lower IT costs and improve your security posture. UiPath delivers IT automation activities and templates that allow you to easily automate a broader set of your core IT scenarios.

Bundle Name	Stars	Downloads	Certification
IT Automation for Public, Private & Hybrid Clouds	5 stars	263	Bronze Certified
Security Orchestration Automation and Response	5 stars	23	Bronze Certified
UIPath Unattended Robots Auto	5 stars	116	Bronze Certified
Active Directory	5 stars	5.4k	Gold Certified
Amazon Web Services (AWS)	5 stars	2.7k	Gold Certified
Citrix Hypervisor (XenServer)	5 stars	4k	Gold Certified

github.com/UiPath/IT-Automation-Workflow-Solutions

UiPath / IT-Automation-Workflow-Solutions (Public)

Unwatch 5 Unstar 5 Fork 5

Code Issues Pull requests Actions Wiki Security Insights Settings

master 1 branch 8 tags

Code About

RPA Workflow Solutions built with UiPath's official IT Automation activities

Readme

Releases 8

UnattendedRobotsAutoScaling ... (Latest) 17 days ago

+ 7 releases

Packages

No packages published

Publish your first package

Languages

C# 77.3% TSQ 18.9% PowerShell 3.8%

Thank you

andrei.oros@uiopath.com

