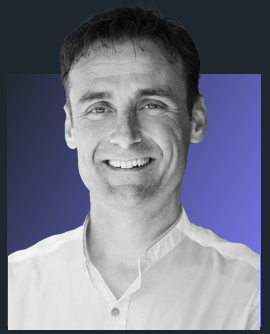
Checkmk Conference #10

New in 2.3:

Synthetic Monitoring has arrived!



Simon Meggle
Senior Product Manager
Checkmk GmbH

OXID eshop

Search

EUR

Log in

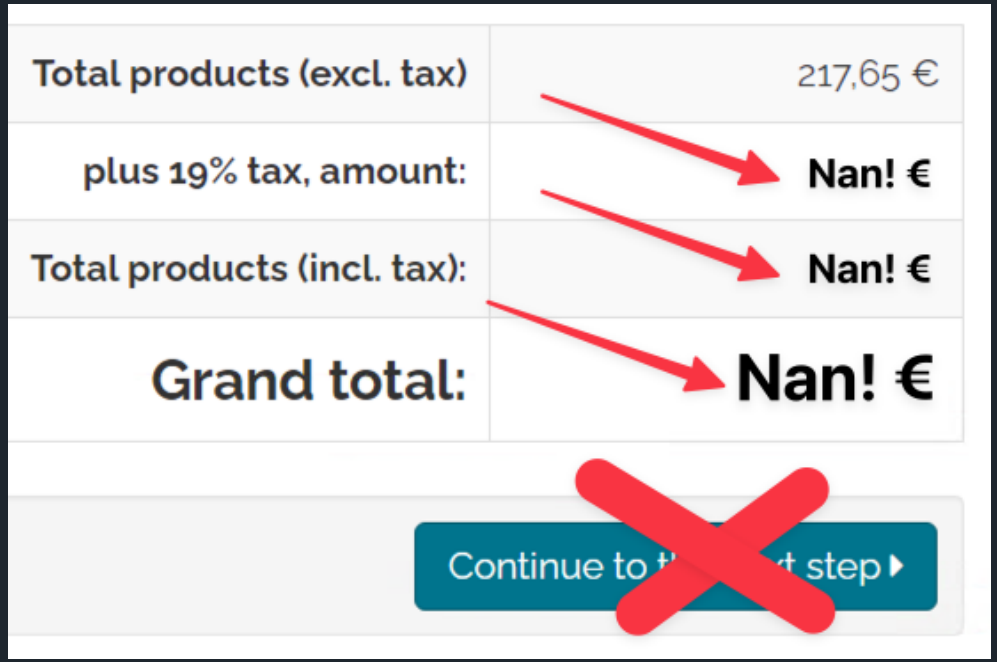
Home | Kiteboarding | Wakeboarding | Gear | Special Offers | Downloads

Week's Special

Save money with our current bargains!

What has happened?

Imagine this is your company.

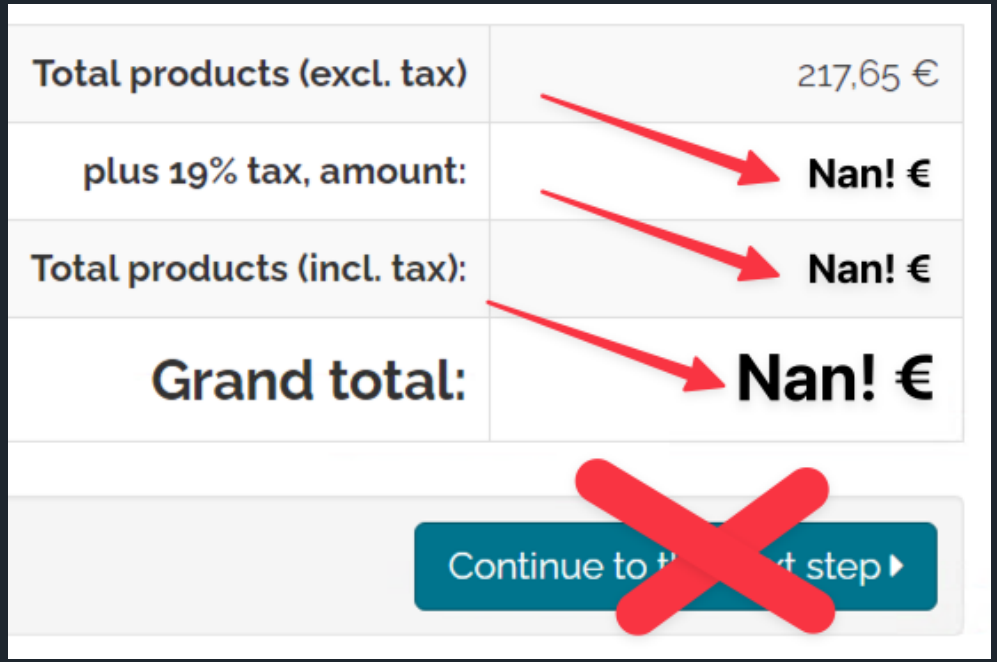


What has happened?

Imagine this is your company.

- **Visible**: Bug in the tax module

  ⇒ **Price calculation broken** ⚡



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Imagine this is your company.

- **Visible**: Bug in the tax module
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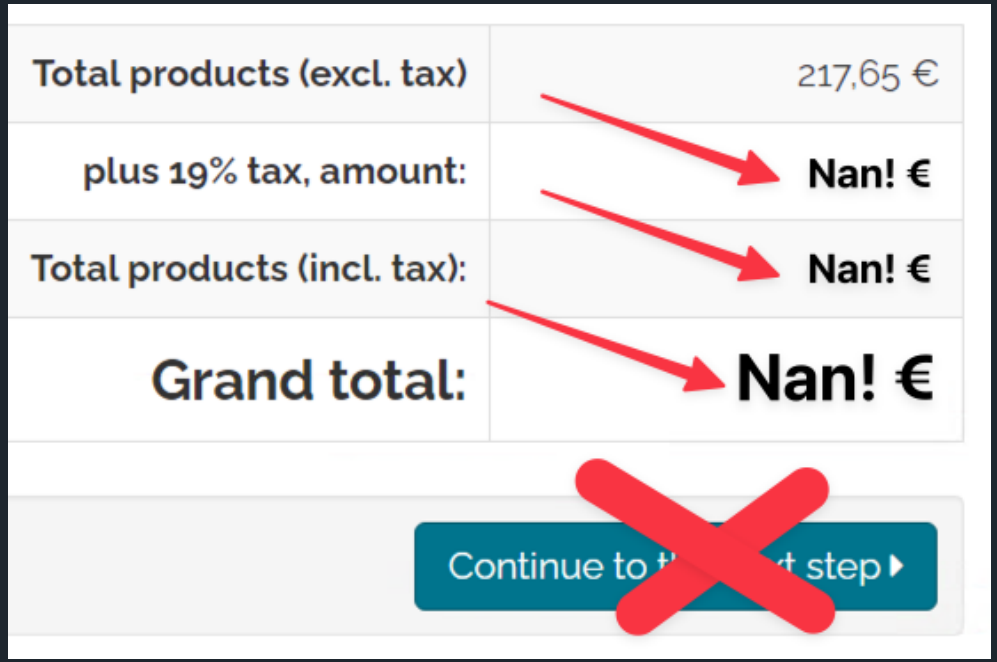
- **Invisible:**
  ⇒ **Customer annoyed**
  ⇒ **Bad review**



What has happened?

Imagine this is your company.

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- **Invisible:**
  ⇒ **Customer annoyed**
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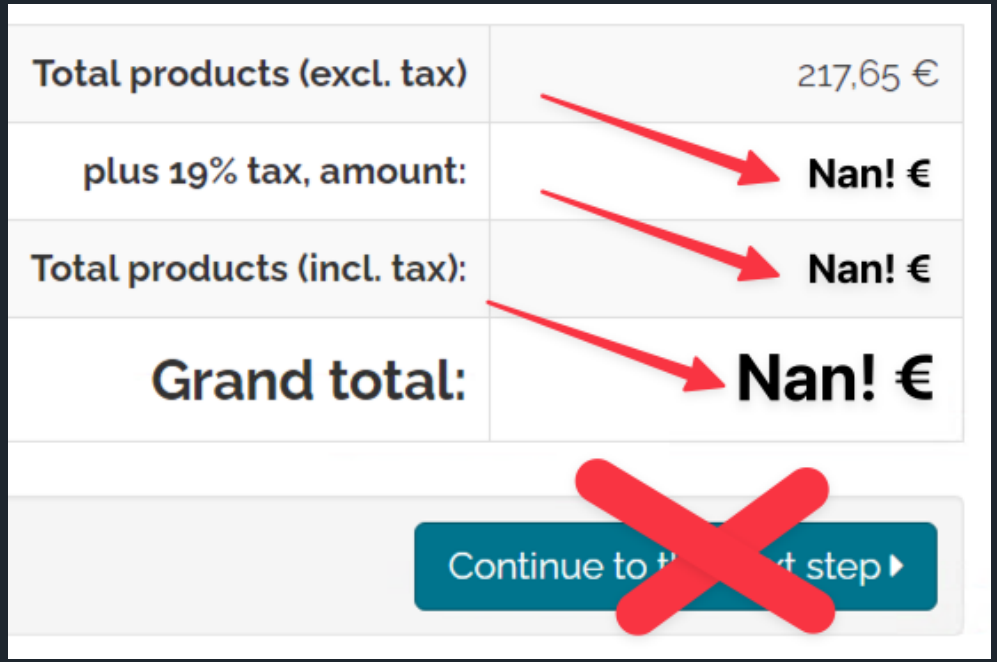
REVENUE LOSS



Customize

Setup

Looks good to me! No problem here.

Basic **OS** monitoring

ence for prediction yet), 15 min load per core: 0.21 (8 cores)

			MB/s, Latency: 771 microseconds
OK	Interface tun0		[2], (up), Speed: 10 GBit/s, In: 532 B/s (<0.01%), Out: 208 B/s (<0.01%)
OK	Interface wlo1		[3], (up), MAC: 74:D8:3E:D3:7D:7C, Speed: unknown, In: 7.75 kB/s, Out: 3.65 kB/s
OK	Kernel Performance		Process Creations: 42.68/s, Context Switches: 21800.16/s, Major Page Faults: 0.00/s, Page Swap in: 0.00/s, Page Swap Out: 0.00/s
OK	Memory		Total virtual memory: 30.52% - 10.1 GiB of 33.1 GiB, 9 additional details available
OK	Systemd Socket Summary		Total: 22, Disabled: 1, Failed: 0
OK	Systemd Service Summary		Total: 181, Disabled: 6, Failed: 0
OK	Uptime		Up since 2024-06-04 11:27:53, Uptime: 1 day 7 hours
OK	Number of threads		1548, Usage: 0.61%
OK	TCP Connections		Established: 80

Help

User

Sidebar

Still, all good here!

Basic **service** monitoring

Customize

Setup

Help

User

Sidebar

ence for prediction yet), 15 min load per core: 0.21 (8 cores)

		MB/s, Latency: 771 microseconds
OK	Interface tun0	[2], (up), Speed: 10 GBit/s, In: 532 B/s (<0.01%), Out: 208 B/s (<0.01%)
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OK	Kernel Performance	Process Creations: 42.68/s, Context Switches: 21800.16/s, Major Page Faults: 0.00/s, Page Swap in: 0.00/s, Page Swap Out: 0.00/s
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OK	Systemd Service Summary	Total: 181, Disabled: 6, Failed: 0
OK	Uptime	Up since 2024-06-04 11:27:53, Uptime: 1 day 7 hours
OK	Number of threads	1548, Usage: 0.61%
OK	TCP Connections	Established: 80
OK	Apache [::1]:80 Status	Uptime: 1 day 7 hours, Idle workers: 48, Busy workers: 2, Total slots: 150
OK	Systemd Service apache2	Status: active, The Apache HTTP Server

Nope, everything green here!
Basic **web services** monitoring

			ence for prediction yet), 15 min load per core: 0.21 (8 cores)
			MB/s, Latency: 771 microseconds
OK	Interface tun0		[2], (up), Speed: 10 GBit/s, In: 532 B/s (<0.01%), Out: 208 B/s (<0.01%)
OK	Interface wlo1		[3], (up), MAC: 74:D8:3E:D3:7D:7C, Speed: unknown, In: 7.75 kB/s, Out: 3.65 kB/s
OK	Kernel Performance		Process Creations: 42.68/s, Context Switches: 21800.16/s, Major Page Faults: 0.00/s, Page Swap in: 0.00/s, Page Swap Out: 0.00/s
OK	Memory		Total virtual memory: 30.52% - 10.1 GiB of 33.1 GiB, 9 additional details available
OK	Systemd Socket Summary		Total: 22, Disabled: 1, Failed: 0
OK	Systemd Service Summary		Total: 181, Disabled: 6, Failed: 0
OK	Uptime		Up since 2024-06-04 11:27:53, Uptime: 1 day 7 hours
OK	Number of threads		1548, Usage: 0.61%
OK	TCP Connections		Established: 80
OK	Apache [::1]:80 Status		Uptime: 1 day 7 hours, Idle workers: 48, Busy workers: 2, Total slots: 150
OK	Systemd Service apache2		Status: active, The Apache HTTP Server
OK	HTTPS Homepage		Version: HTTP/2.0, Status: 200 OK
OK	CERT Homepage		OK - Certificate obtained in 2293 ms, Verification: OK, Certificate expires in 290 day(s) (Mar 22 23:59:59 2025 +00:00)

☐		Item # 3101	add	1	209,00 €	19%	209,00 €
☐		**Kite CORE RIOT XR** Item # 1209 kite, backpack, repair kit, Freeride	add	1	791,10 € ~~879,00 €~~	19%	791,10 €
☐		**Kite CORE GT** Item # 1205 kite, backpack, repair kit, Freeride, Wakestyle, Wave	add	1	629,10 € ~~699,00 €~~	19%	629,10 €
☐	All						

Your web shop is broken ...
... and only your customers know about it.

Enter coupon n

cl. tax)	217,65 €
mount:	Nan! €
Total products (incl. tax):	Nan! €
Grand total:	**Nan! €**

Continue shopping

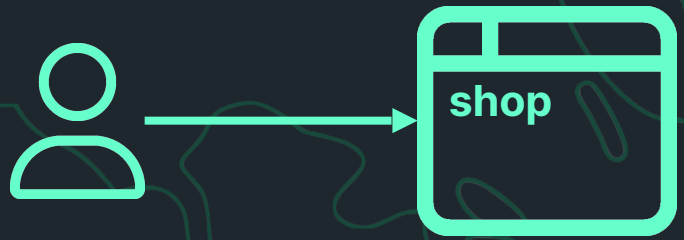
Continue to the next step

The need for Synthetic Monitoring

Synthetically mimic interactions of users with target systems

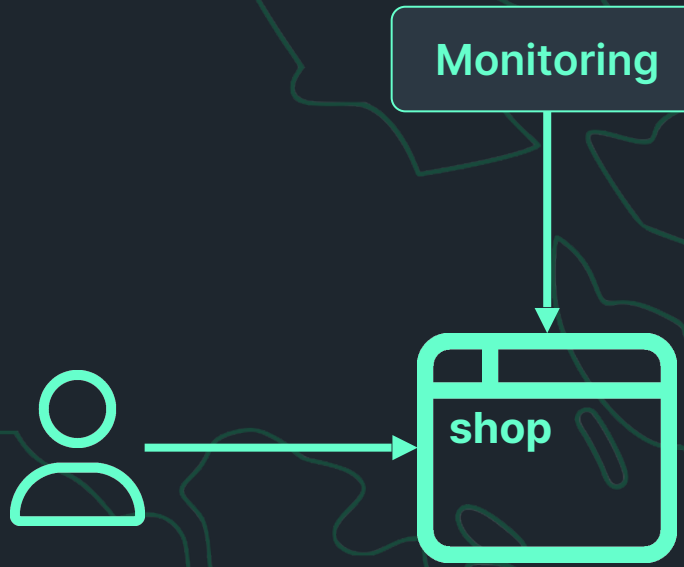
The need for Synthetic Monitoring

Synthetically mimic interactions of users with target systems



The need for Synthetic Monitoring

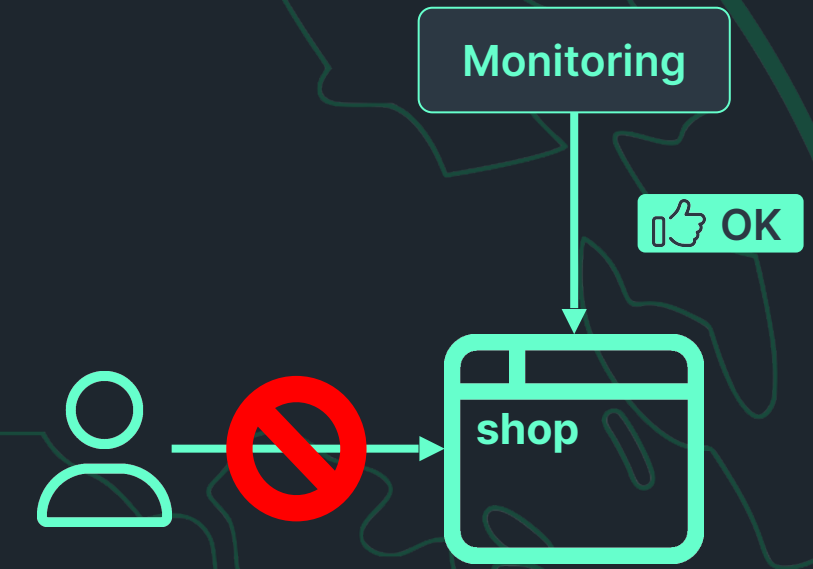
Synthetically mimic interactions of users with target systems



Checkmk Conference

The need for Synthetic Monitoring

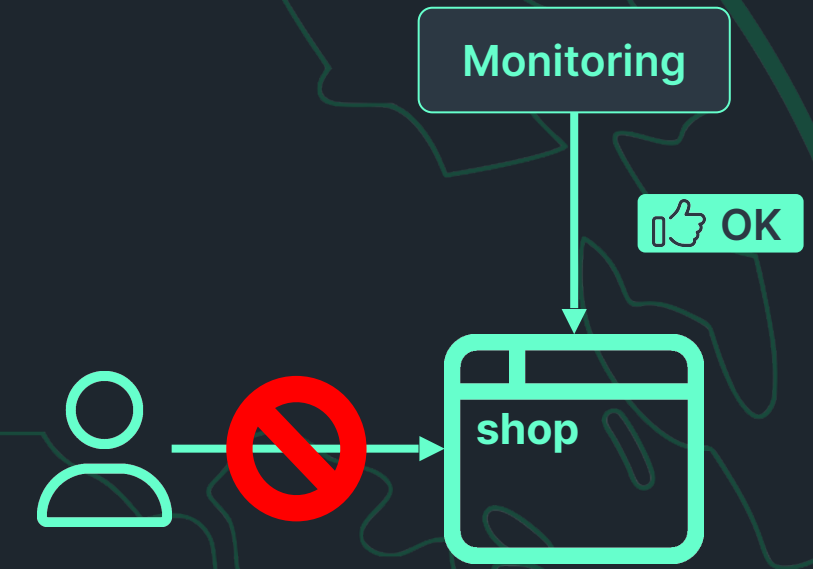
Synthetically mimic interactions of users with target systems



Checkmk
Conference

The need for Synthetic Monitoring

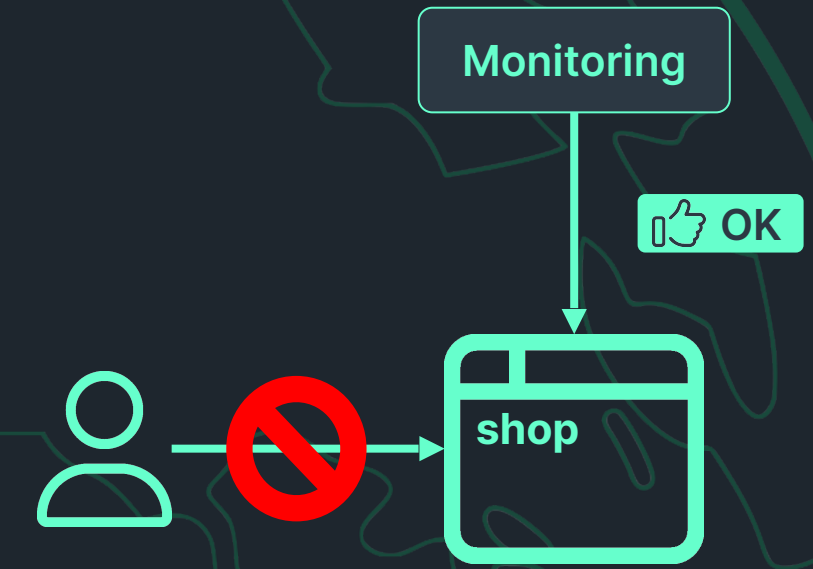
Synthetically mimic interactions of users with target systems



Key dimensions for services

The need for Synthetic Monitoring

Synthetically mimic interactions of users with target systems



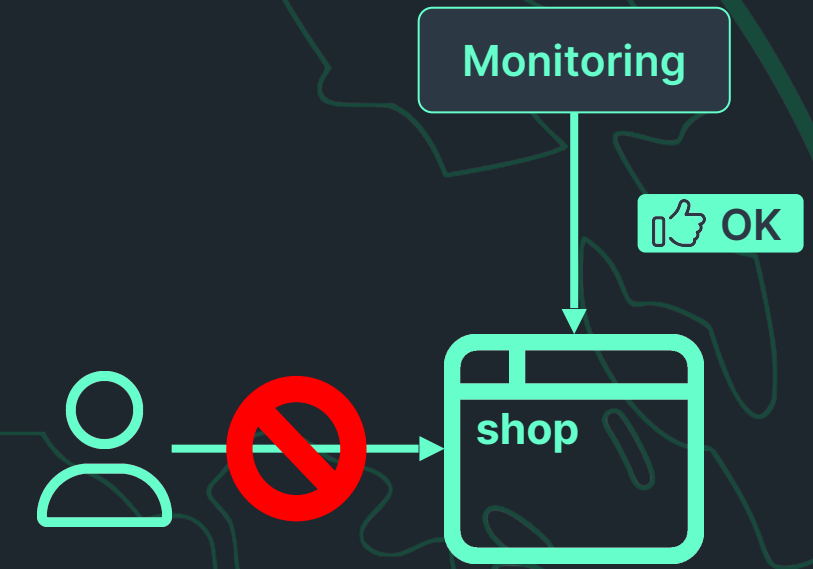
Key dimensions for services

Availability

Do the services respond?

The need for Synthetic Monitoring

Synthetically mimic interactions of users with target systems



Key dimensions for services

Availability

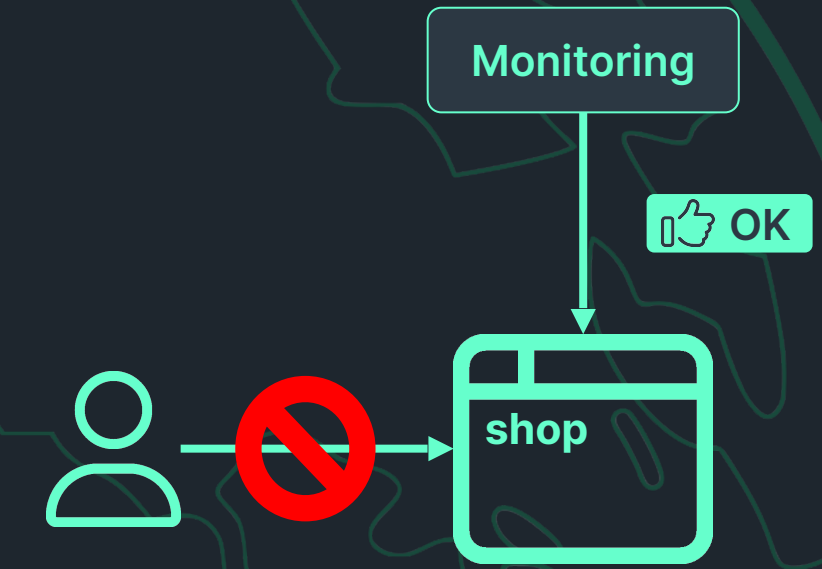
Do the services respond?

Performance

How is the response quality?

The need for Synthetic Monitoring

Synthetically mimic interactions of users with target systems



Key dimensions for services

Availability

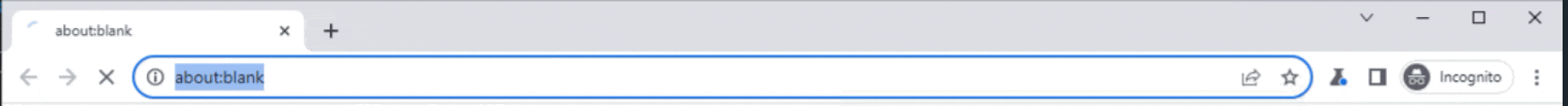
Do the services respond?

Performance

How is the response quality?

Functionality

Does the system provide the expected functionality?


about:blank
about:blank
Incognito

Detect functional issues with synthetic monitoring

OK	CERT OXID		OK - Certificate obtained in 72 ms, Verification: OK, Certificate expires in 89 day(s) (Aug 21 15:26:40 2024 +00:00)
OK	CPU utilization		Total CPU: 4.78%
OK	Filesystem C:/		Used: 87.74% - 47.0 GB of 53.6 GB, trend per 1 day 0 hours: +309 GB, trend per 1 day 0 hours: +576.00%, Time left until disk full: 30 minutes 39 seconds
OK	HTTPS OXID		Version: HTTP/2.0, Status: 200 OK
OK	Interface 1		[Google VirtIO Ethernet Adapter], (up), MAC: 42:01:0A:9C:00:02:00:00, Speed: 100 GBit/s, In: 2.36 kB/s (<0.01%), Out: 15.0 kB/s (<0.01%)
OK	Memory		RAM: 59.76% - 2.69 GiB of 4.50 GiB, Virtual memory: 48.11% - 2.64 GiB of 5.50 GiB
OK	RMK OXIDWebshop_checkout Plan		Runtime: 12 seconds, Limit: 1 minute 0 seconds, Ratio: 20.00%, Last execution: 2024-05-20 17:40:00 (UTC+00:00)
CRIT	RMK OXIDWebshop_checkout Test: Search Item And Add To Basket		FAIL

With all the details for troubleshooting

Built-in logs with screenshots

checkmk

Monitor

Customize

Setup

Help

User

Sidebar

Download | Last error log | Services of Host

	Artikel	Verpackung	Menge	Einzelpreis	MwSt	Gesamtbetrag
☐	 Bindung LIQUID FORCE TRANSIT BOOT Art. Nr. 2402	hinzufügen	1	259,00 €	19%	259,00 €

☐ Alle | Entfernen | Aktualisieren

Gutscheincode eingeben | Gutschein einlösen

Summe Artikel (netto)	217,65 €
zzgl. 19% MwSt., Betrag:	Nan! €
Summe Artikel (brutto):	259,00 €
Gesamtbetrag:	**Nan!**

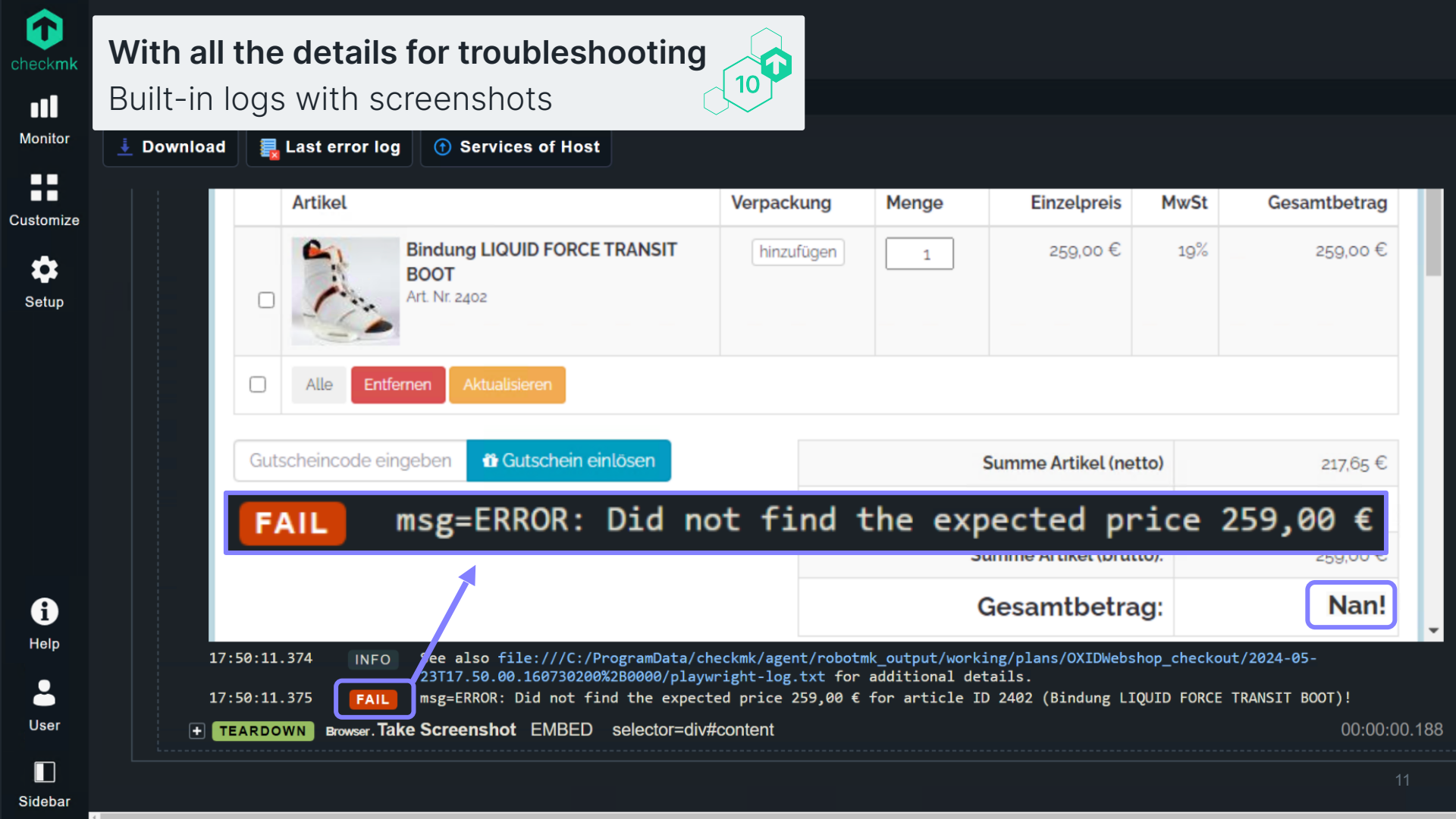
17:50:11.374 INFO See also file:///C:/ProgramData/checkmk/agent/robotmk_output/working/plans/OXIDWebshop_checkout/2024-05-23T17.50.00.160730200%2B0000/playwright-log.txt for additional details.

17:50:11.375 FAIL msg=ERROR: Did not find the expected price 259,00 € for article ID 2402 (Bindung LIQUID FORCE TRANSIT BOOT)!

TEARDOWN Browser. Take Screenshot EMBED selector=div#content 00:00:00.188

With all the details for troubleshooting

Built-in logs with screenshots



Checkmk Synthetic Monitoring

A seamless integration of ...

Checkmk Synthetic Monitoring

A seamless integration of ...

Develop
the test

Checkmk Synthetic Monitoring

A seamless integration of ...

Develop
the test

Run
the test

Checkmk Synthetic Monitoring

A seamless integration of ...

Develop
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Monitor
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Our synthetic monitoring technology should be ...

Easy to use

Also accessible for non-programmers.

Low code.

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Test anything

All use cases possible.
From web applications to legacy software.

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Future-proof

No 3rd party risk. No commercial dependency.

Many options to write functional tests

Python JavaScript Python

```python
from selenium.webdriver.support import expected_conditions as EC # type: ignore

# Configuration
url = "https://oxid.robotmk.org"
browser_type = "chromium"
article_id = "2402"
article_title = "Bindung LIQUID FORCE TRANSIT BOOT"
article_price = "259,00 €"

# Initialize WebDriver
driver = webdriver.Chrome()  # Use Chromedriver or the appropriate driver for your browser
driver.get(url)


def search_and_select_article():
    search_input = driver.find_element(By.ID, "searchParam")
    search_input.send_keys(article_id)
    search_input.send_keys(Keys.RETURN)

    # Wait for the search results to appear and select the first result
    WebDriverWait(driver, 10).until(
        EC.text_to_be_present_in_element((By.
    )
    first_result = driver.find_element(By.CSS_SELECTOR, "div.list-container div.row:first-child div.produ
    first_result.click()
```

Selenium

Programming functional tests
Selenium (Python)

10

```
7     browser = await p.chromium.launch(headless=False)
8     context = await browser.new_context(locale='de-DE')
9
10    # Open the webshop page
11    page = await context.new_page()
12    await page.goto("https://oxid.robotmk.org")
13
14    # Login function
15    async def login():
16        await page.click("div.service-menu > button")
17        await page.fill("input#loginEmail", "mail@robotmk.org")
18        await page.fill("input#loginPassword", "your_decrypted_password_here")  # Replace this with th
19        await page.click("div.service-menu form button")
20
21    # Search and select article function
22    async def search_and_select_article():
23        await page.fill("input#searchParam", "2402")
24        await page.click("form.search button")
25        await page.click("div.list-container div.row:first-child div.productData:first-child div.actio
26        await page.click("button#toBasket")
27        await page.click("a[title='Warenko
28
29    # Check the basket for correct price
30    async def check_basket():
31        price = await page.text_content("td#basketGrandTotal")
32        assert "259,00 €" in price, "ERROR: Did not find the expected price"
```

Playwright

Programming functional tests

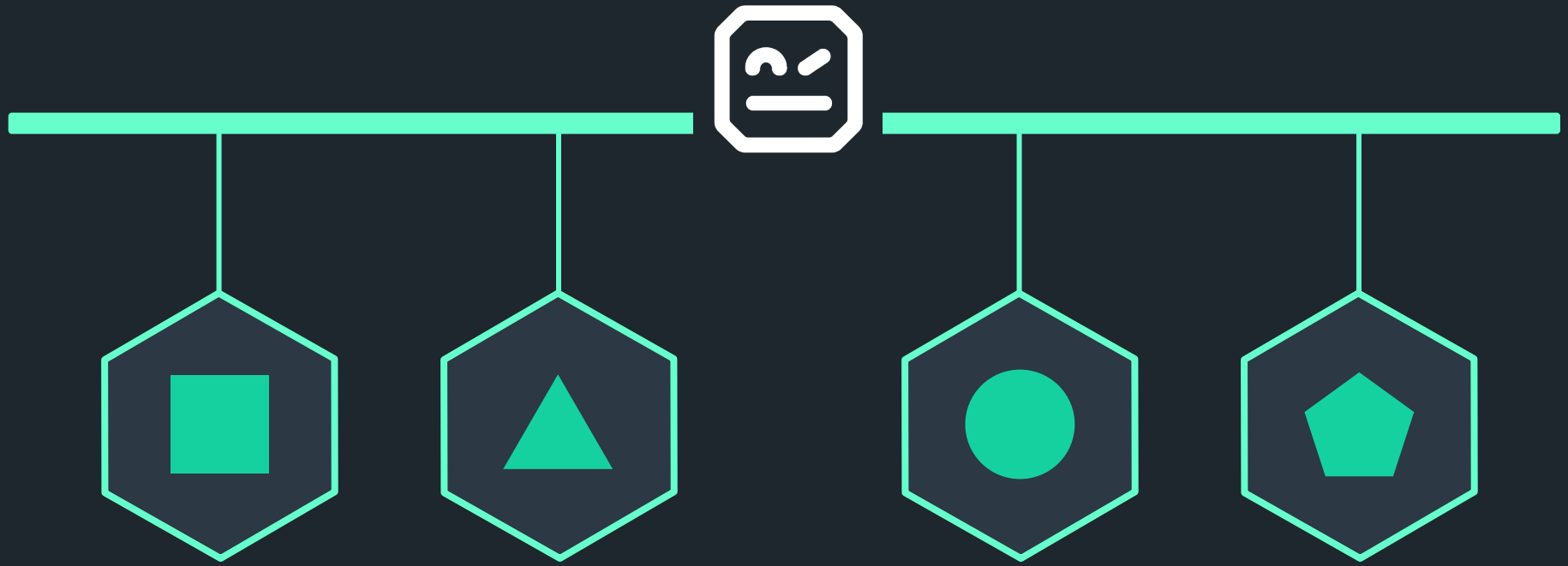
Playwright (JavaScript)

```
time.sleep(sleep)
move_to_et_click(dimension['draw_on_map'])
time.sleep(sleep)
start_point = dimension['map_point']
direction = 80
move_right = (start_point[0] + direction, start_point[1])
move_down = (move_right[0], move_right[1] - direction)
move_left = (move_down[0] - direction, move_down[1])
move_up = (move_left[0], move_left[1] + direction)
move_to_et_click(dimension['map_point'])
move_to_et_click(move_right)
move_to_et_click(move_down)
move_to_et_click(move_left)
move_to_et_click(move_up)
gui.click(move_up)
time.sleep(plot_render_sleep)
gui.alert('Conducting test...', 'Wait', timeout=4000)
image_loc = gui.locateCenterOnScreen(
    paths['line_index'], confidence=0.3, grayscale=True)
if image_loc is None:
    gui.alert(text='Line index not found!', title
    retry_location_test(paths['line_index'], 'Lin
else:
    gui.alert(text='Line UI test complete!', title='UI test', button='Close', timeout=box_timeout)
time.sleep(.30)
gui.click(dimension['close_index'])
```

Programming functional tests

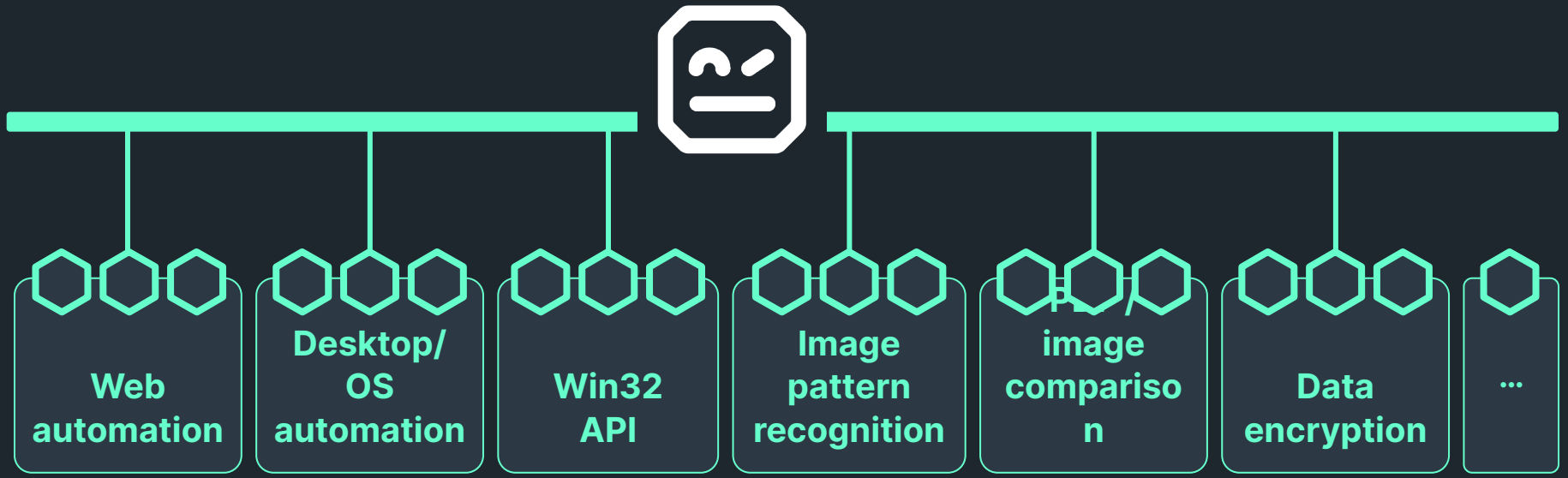
Desktop/PyAutoGUI (Python)

Simplify test creation with a low code layer



Powered by huge number of libraries

Test anything



```
*** Settings ***
Documentation       This suite verifies that the checkout process shows the correct final price.
Resource            webshop_oxid.resource
Library             Browser
...     enable_presenter_mode={"duration": "0.5 seconds", "width": "4px", "style": "dotted", "color": "red"}
Test Setup          Open Webshop

*** Variables ***
${BROWSER}      chromium
${ARTICLE_ID}  2402
${ARTICLE_TITLE}   Binding LIQUID FORCE TRANSIT BOOT
${ARTICLE_PRICE}   259,00 €

*** Test Cases ***
Search Item And Add To Basket
    [Documentation]    Searches an article, adds it to the basket and tries to navigate to the checkout page.
    [Teardown]  Take Screenshot  EMBED  selector=div#content
    Empty Basket
    Search And Select Article
    ...     article_id=${ARTICLE_ID}
    ...     article_title=${ARTICLE_TITLE}
    ...     article_price=${ARTICLE_PRICE}
    Get Text  id=basketGrandTotal  *=  259,00 €
    ...     msg=ERROR: Did not find the expected p                                                    TICL
```

Functional testing made simple

Robot Framework with browser library

The right framework for Checkmk

Future-proof

- Robot Framework, a **generic test automation framework**
- **Open source project** since 2008 (Python)
- Large, vibrant **community** (20k+ users on Slack)
- **Robot Framework Foundation** (non-profit), with > 60 other companies as members
  - Support developers, events, certifications…
  - Goal is to ensure that it remains an accessible open-source project
- **Checkmk is part of the foundation**, co-financing the project

Our synthetic monitoring technology should be ...

Easy to use

Also accessible for non-programmers.
Low code.

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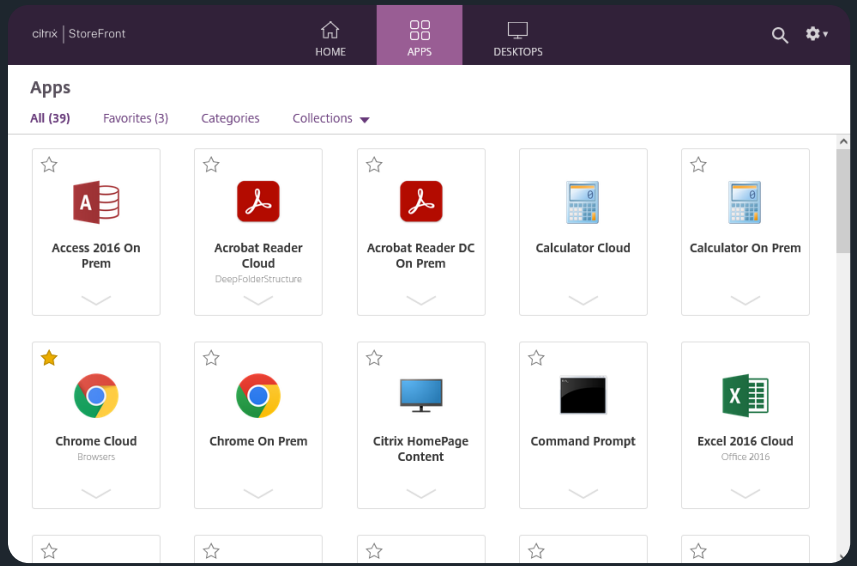
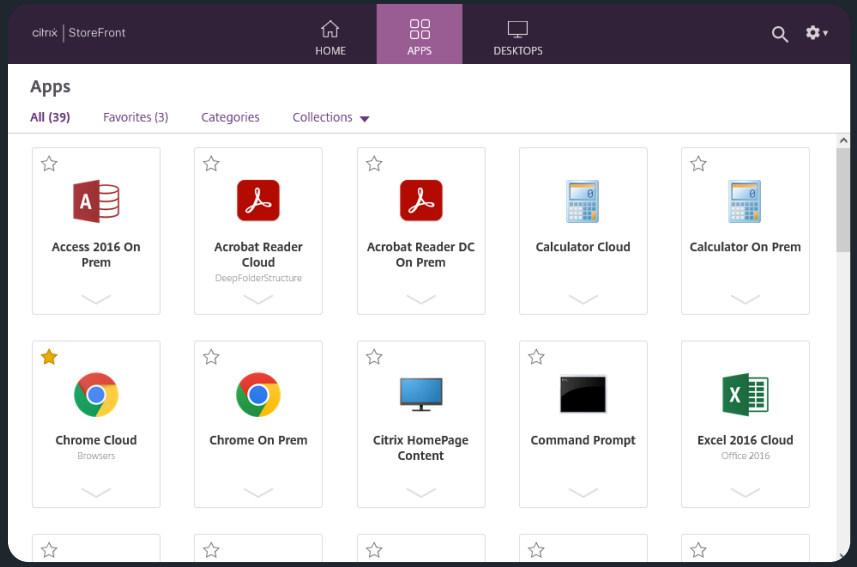
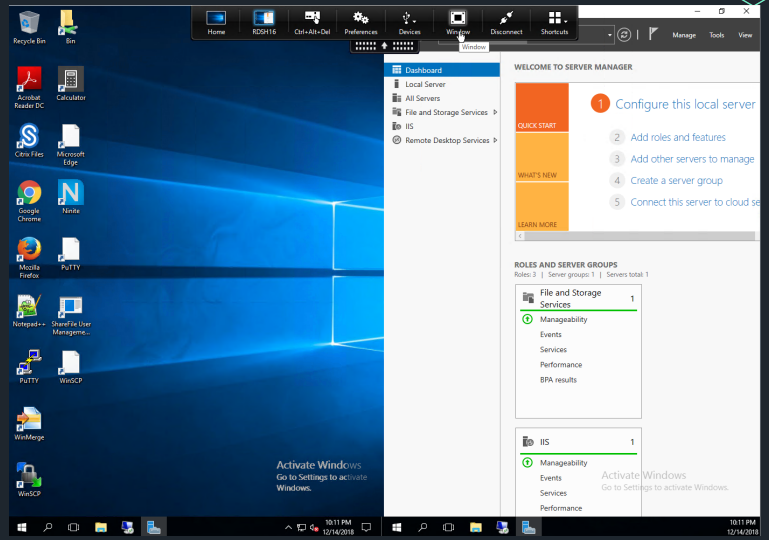


Establishing a Citrix session

Browser = web based





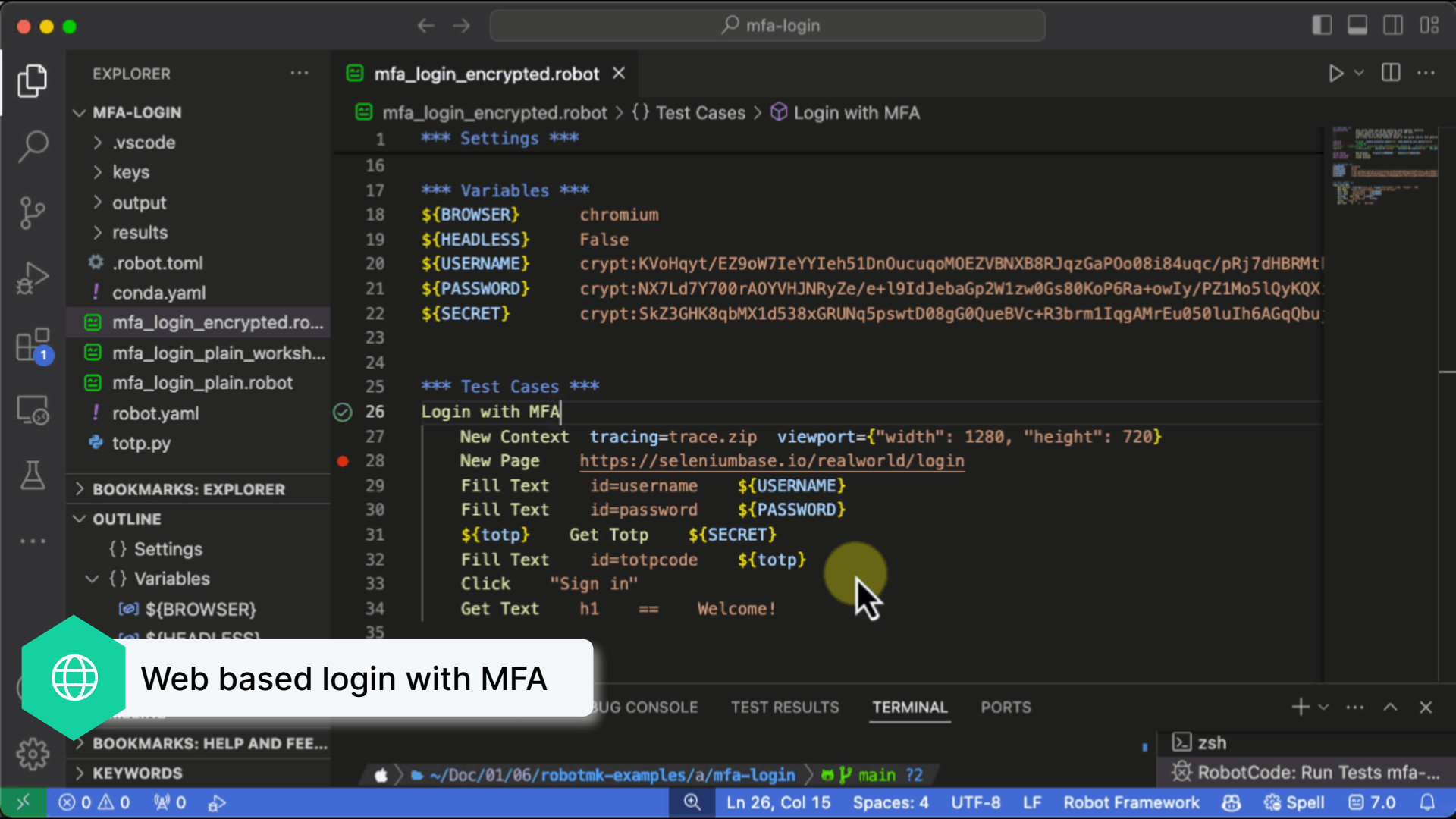
Establishing a Citrix session

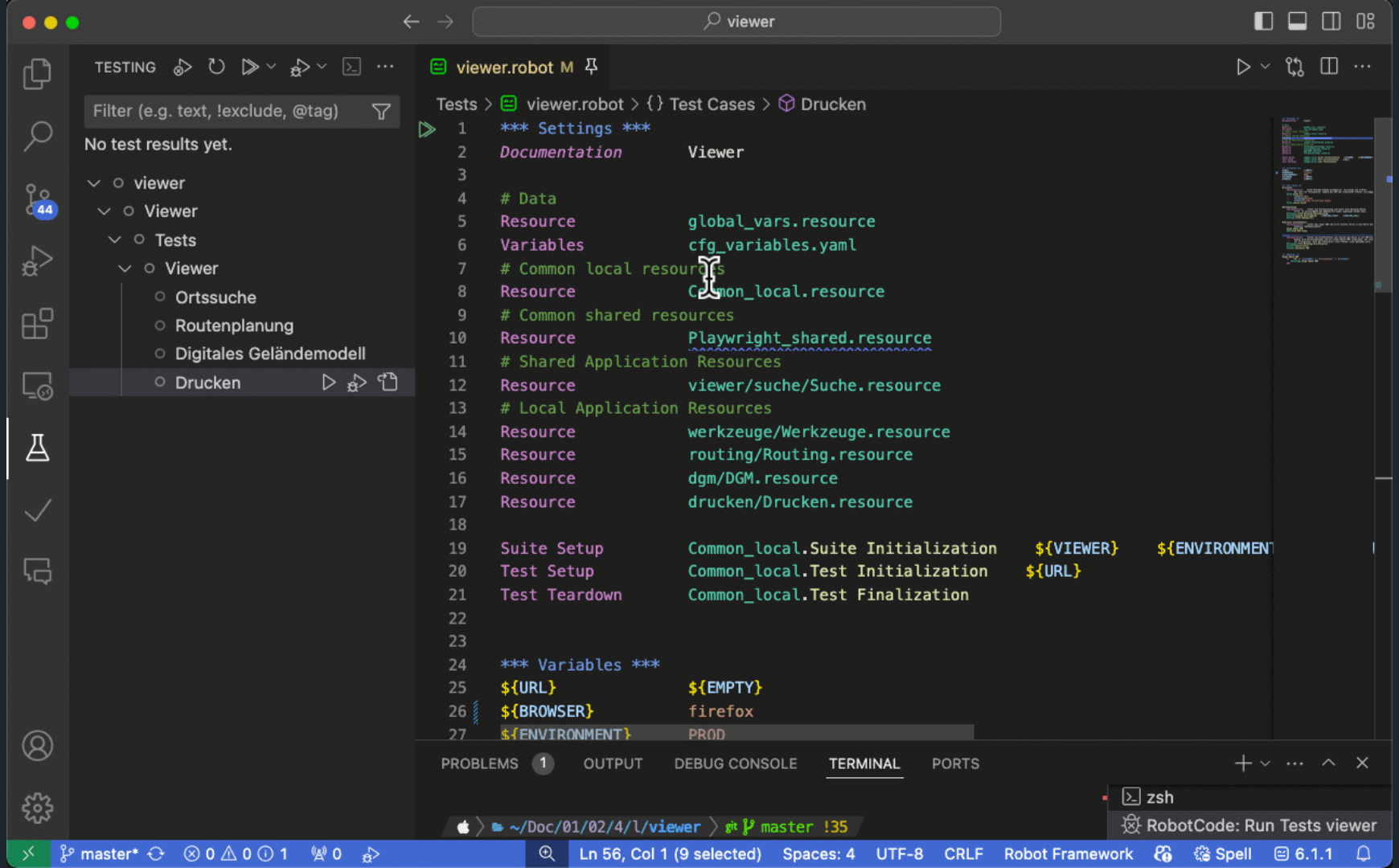
Browser = web based

Automating a Citrix session

Citrix = image comparison

Checkmk Conference


mfa-login
EXPLORER
MFA-LOGIN
.vscode
keys
output
results
.robot.toml
conda.yaml
mfa_login_encrypted.ro...
mfa_login_plain_worksh...
mfa_login_plain.robot
robot.yaml
totp.py
BOOKMARKS: EXPLORER
OUTLINE
{} Settings
{} Variables
${BROWSER}
BOOKMARKS: HELP AND FEE...
KEYWORDS
mfa_login_encrypted.robot
mfa_login_encrypted.robot > {} Test Cases > Login with MFA
1 *** Settings ***
16
17 *** Variables ***
18 ${BROWSER} chromium
19 ${HEADLESS} False
20 ${USERNAME} crypt:KVoHqyt/EZ9oW7IeYYIeh51DnOucuqoMOEZVBNXB8RJqzGaPOo08i84uqc/pRj7dHBRMt
21 ${PASSWORD} crypt:NX7Ld7Y700rAOYVHJNRyZe/e+l9IdJebaGp2W1zw0Gs80KoP6Ra+owIy/PZ1Mo5lQyKQX
22 ${SECRET} crypt:SkZ3GHK8qbMX1d538xGRUNq5pswtD08gG0QueBVc+R3brm1IqgAMrEu050luIh6AGqQbu
23
24
25 *** Test Cases ***
26 Login with MFA
27 New Context tracing=trace.zip viewport={"width": 1280, "height": 720}
28 New Page https://seleniumbase.io/realworld/login
29 Fill Text id=username ${USERNAME}
30 Fill Text id=password ${PASSWORD}
31 ${totp} Get Totp ${SECRET}
32 Fill Text id=totpcode ${totp}
33 Click "Sign in"
34 Get Text h1 == Welcome!
35
Web based login with MFA
BUG CONSOLE
TEST RESULTS
TERMINAL
PORTS
zsh
RobotCode: Run Tests mfa-...
~/Doc/01/06/robotmk-examples/a/mfa-login
main ?2
Ln 26, Col 15
Spaces: 4
UTF-8
LF
Robot Framework
Spell
7.0


viewer
TESTING
Filter (e.g. text, !exclude, @tag)
No test results yet.
viewer
Viewer
Tests
Viewer
Ortssuche
Routenplanung
Digitales Geländemodell
Drucken
viewer.robot M
Tests > viewer.robot > { } Test Cases > Drucken
1 *** Settings ***
2 Documentation Viewer
3
4 # Data
5 Resource global_vars.resource
6 Variables cfg_variables.yaml
7 # Common local resources
8 Resource Common_local.resource
9 # Common shared resources
10 Resource Playwright_shared.resource
11 # Shared Application Resources
12 Resource viewer/suche/Suche.resource
13 # Local Application Resources
14 Resource werkzeuge/Werkzeuge.resource
15 Resource routing/Routing.resource
16 Resource dgm/DGM.resource
17 Resource drucken/Drucken.resource
18
19 Suite Setup Common_local.Suite Initialization ${VIEWER} ${ENVIRONMENT
20 Test Setup Common_local.Test Initialization ${URL}
21 Test Teardown Common_local.Test Finalization
22
23
24 *** Variables ***
25 ${URL} ${EMPTY}
26 ${BROWSER} firefox
27 ${ENVIRONMENT} PROD
PROBLEMS 1
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
zsh
RobotCode: Run Tests viewer
~/Doc/01/02/4/l/viewer
master !35
master*
0 0 1
0
Ln 56, Col 1 (9 selected)
Spaces: 4
UTF-8
CRLF
Robot Framework
Spell
6.1.1

```
*** Test Cases ***
Location Search
    [Documentation]    Search Potsdam using search term, suggestion and match.
    ...  The test is successful as soon as the API has returned the expected match.
    Search.Search Location
    ...    search=Potsdam
    ...    suggestion=Potsdam
    ...    match=Potsdam [kreisfreie Stadt]
    Search.Clear Search

Route Planning
    [Documentation]   Opens the route planning and plans a sample route.
    ...  Checks whether the elevation profile layer can then be displayed.
    Tools.Open Route Planning Tool
    Routing.Enter Routing Data    ${ROUTING_START}    ${ROUTING_ZIEL}
    Routing.Open Elevation Profile

Digital Terrain Model
    [Documentation]    Opens the DTM layer and clicks on the map to check the
    ...  "GetFeatureInfo" function.
    Show Layer DGM
    DGM.Open DGM Popup
```

Develop
the test

Run
the test

Monitor
the test

Develop
the test

Run
the test

Monitor
the test

checkmk

Where do my tests run?

- All such tests have to be run somewhere: **Test nodes**
- For internal applications: monitored test nodes in your infrastructure
- Tests need a Python environment running on
- You need to take care of scheduling

All of this can get very complex as soon as you scale your tests with more and more tests

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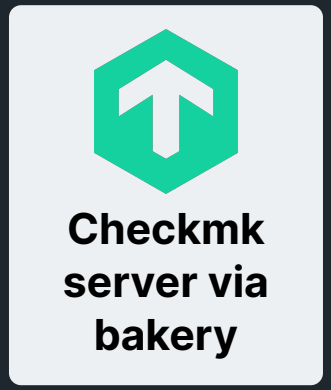
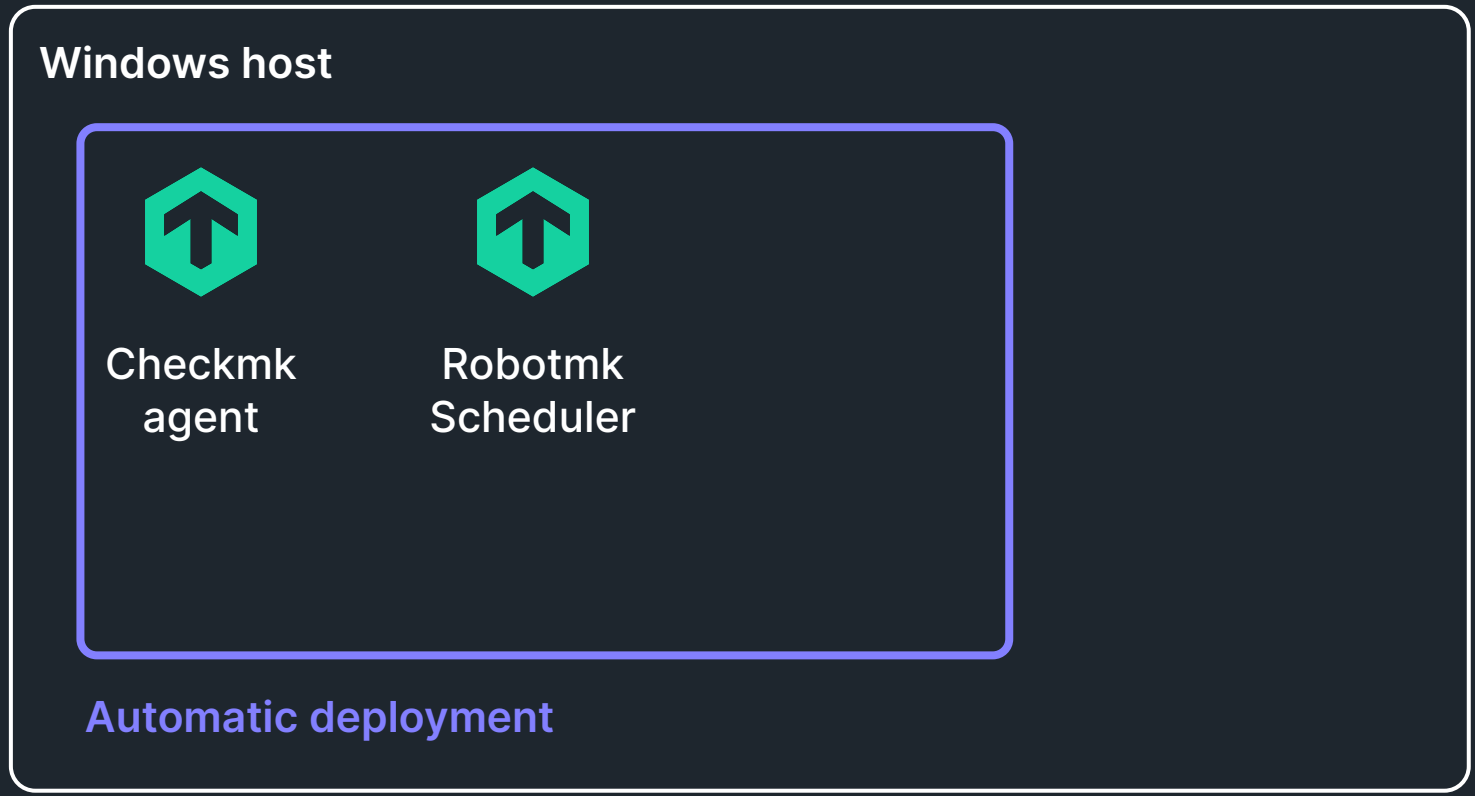
All of this can get very complex as soon as you scale your tests with more and more tests

Our goal: automate as much as possible of test runs, so that you can focus on creating and monitoring tests

Our paradigm: hands-free test execution

Don’t worry about Python and more





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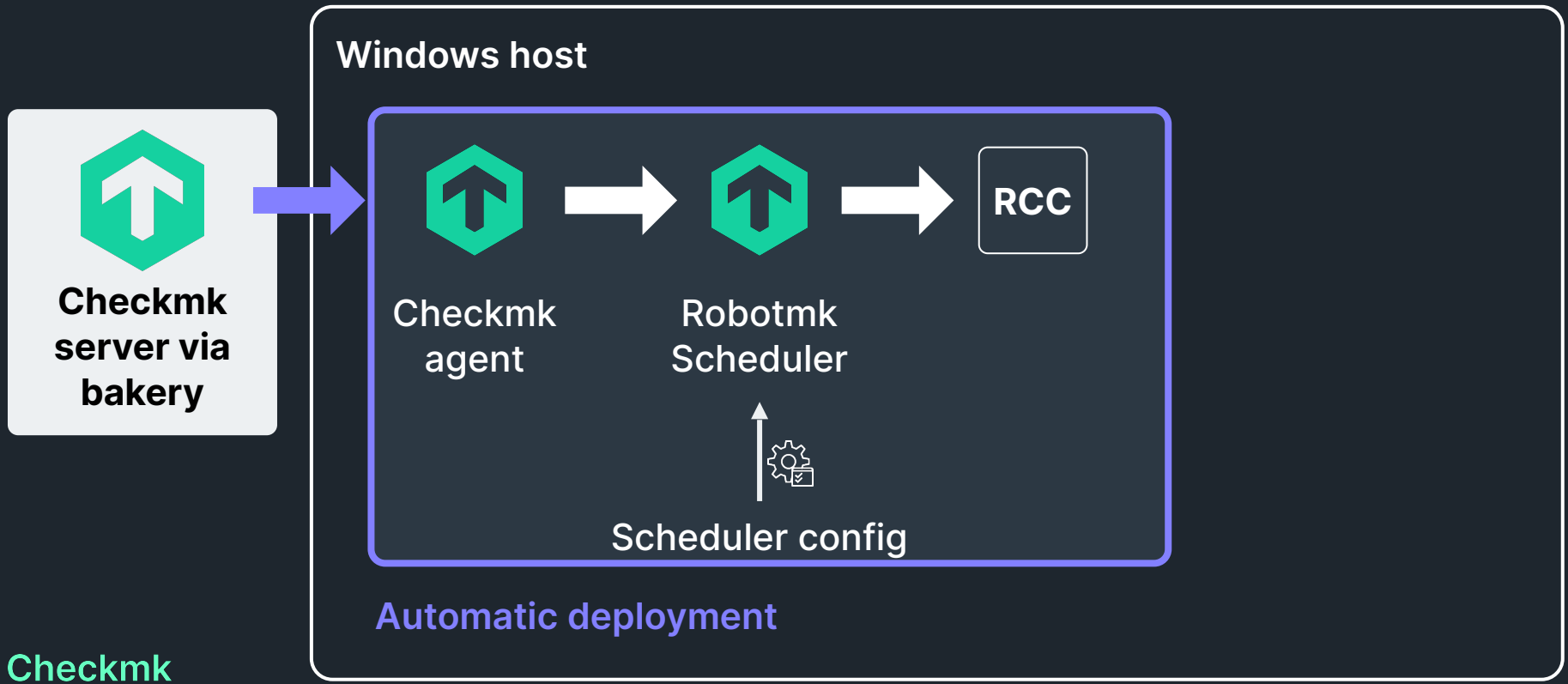

Our paradigm: hands-free test execution

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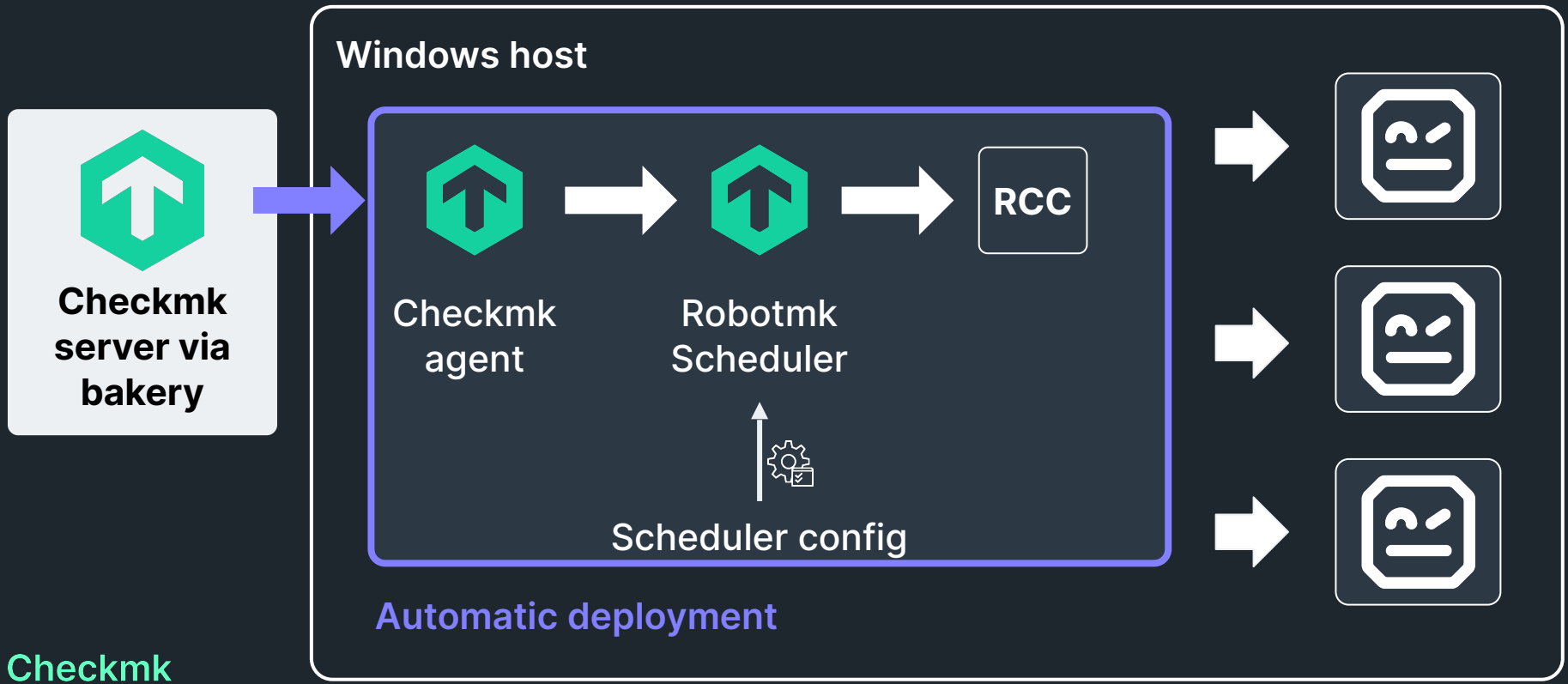
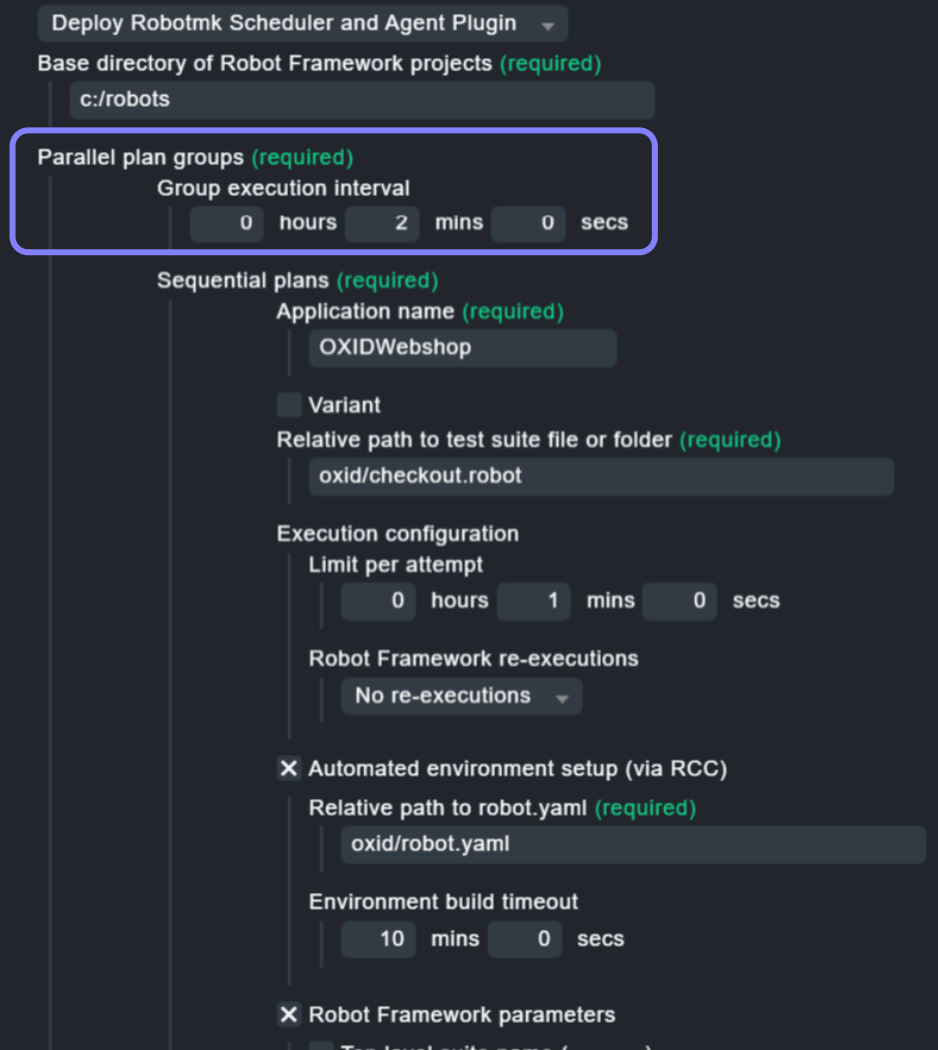


Powerful control via bakery

Scheduler configuration

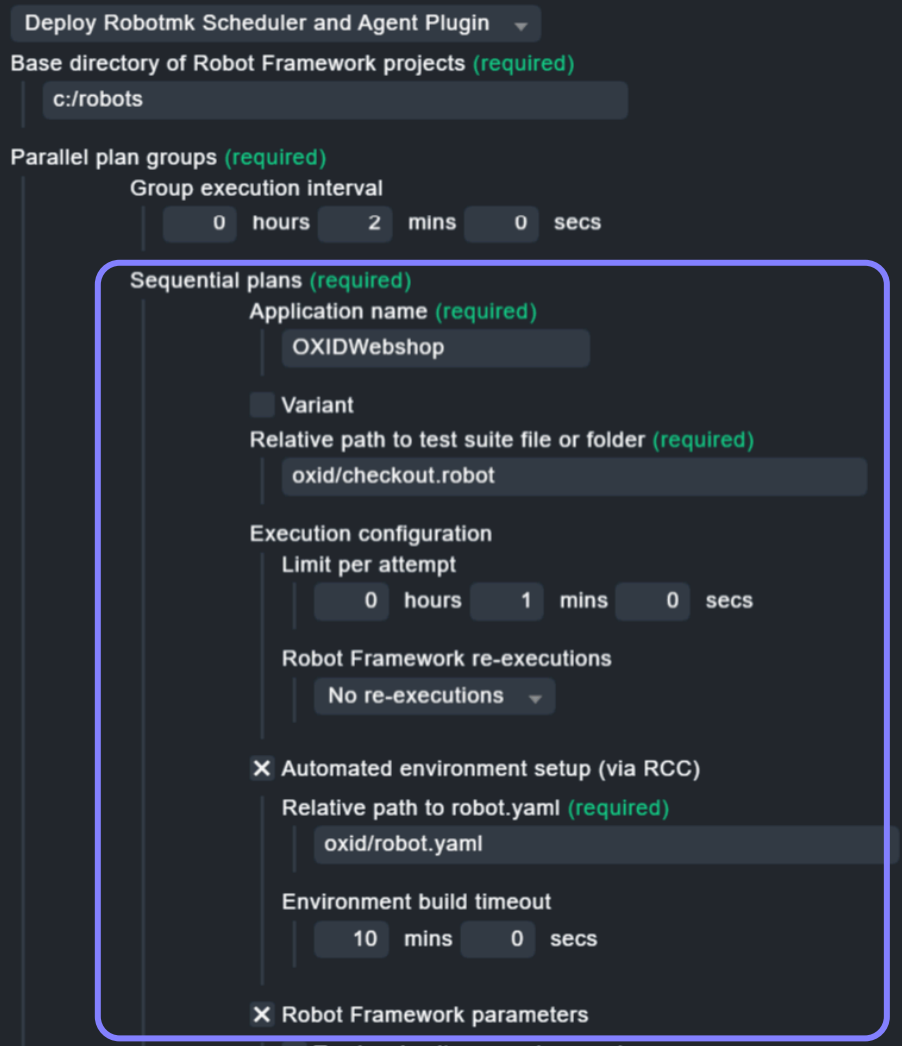
- **Individual intervals** for **Parallel Plan Group** execution



Powerful control via bakery

Scheduler configuration

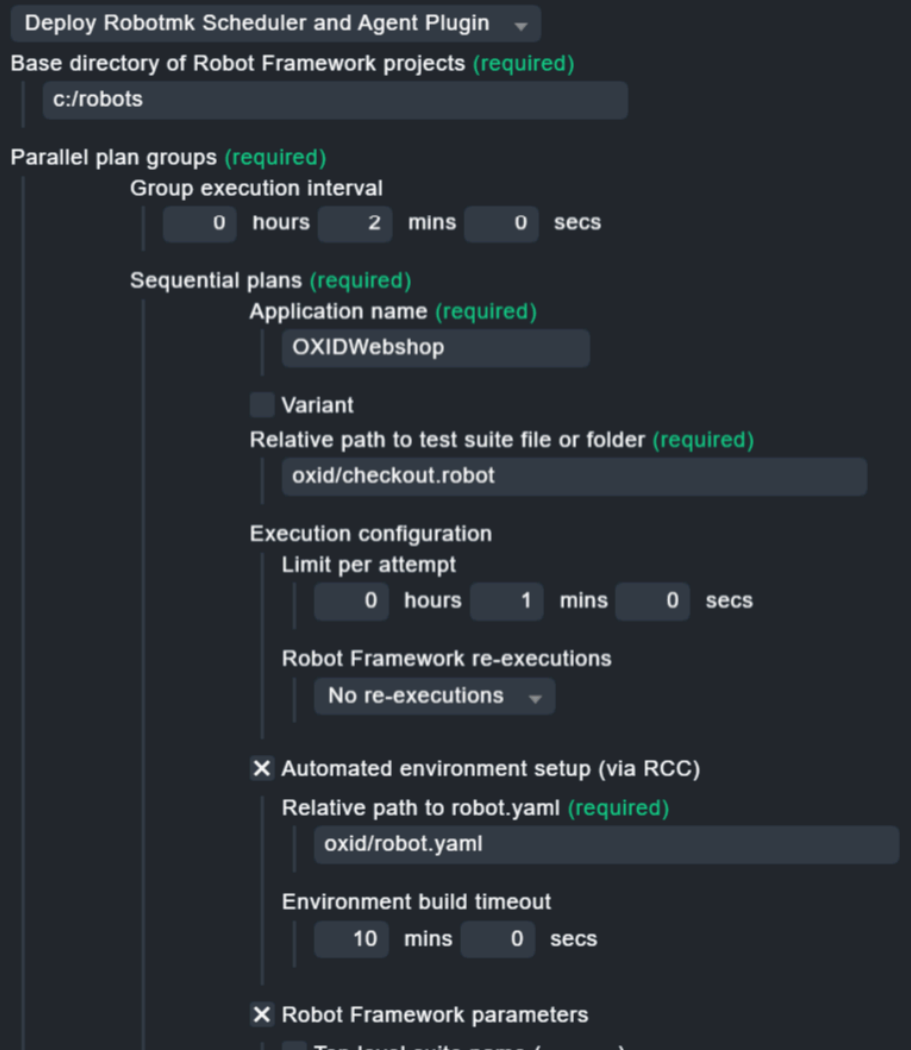
- **Individual intervals** for **Parallel Plan Group** execution
- **Sequential** execution of **Plans** inside **Groups**



Powerful control via bakery

Scheduler configuration

- **Individual intervals** for **Groups** (parallel execution)
- **Sequential** execution of **Plans** inside **Groups**



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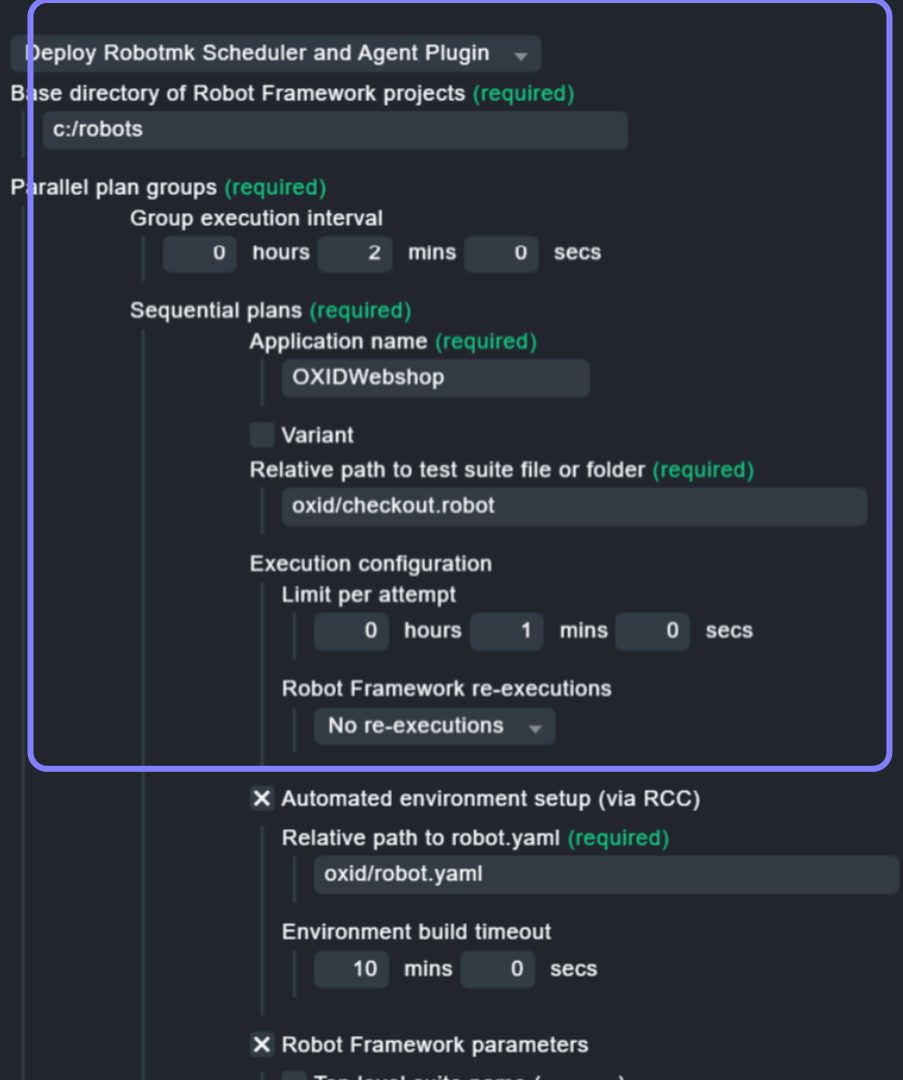
Scheduler configuration

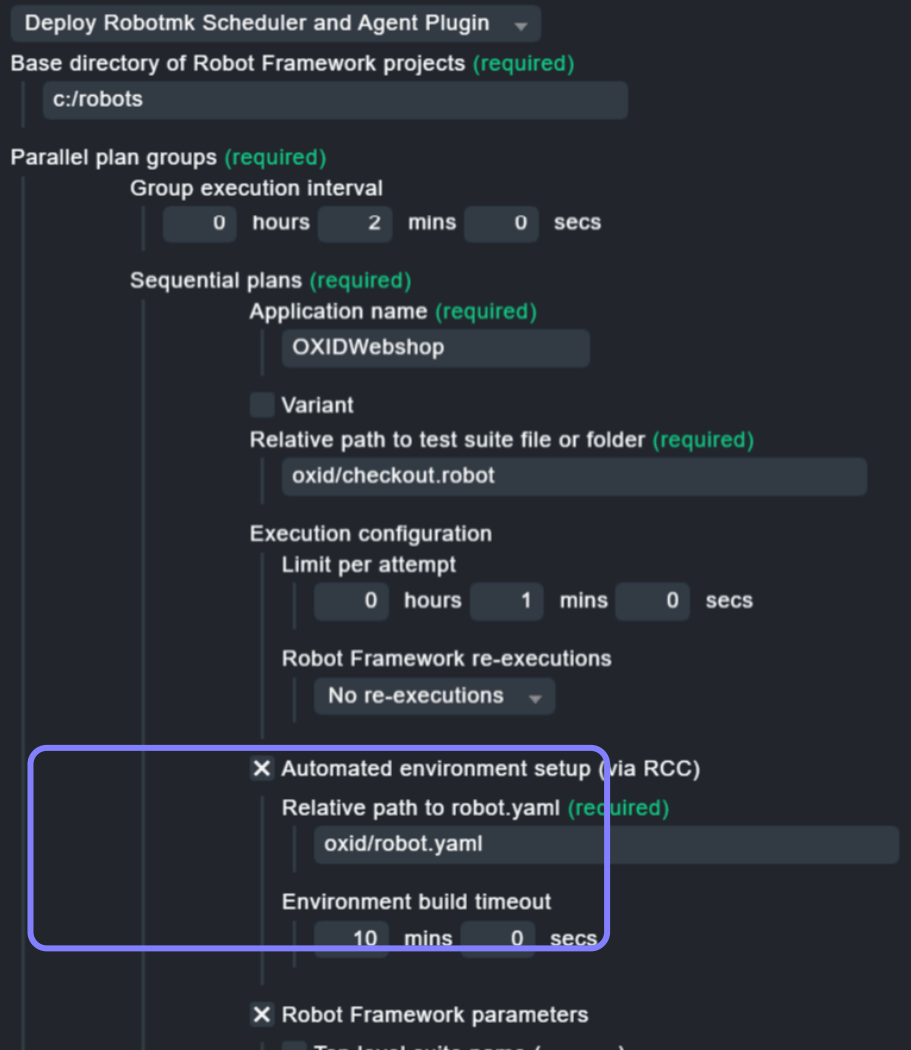
- **Individual intervals** for **Groups** (parallel execution)
- **Sequential** execution of **Plans** inside **Groups**
- **Full Control** over **Robot Framework Parameters**



Powerful control via bakery

Scheduler configuration

- **Individual intervals** for **Groups** (parallel execution)
- **Sequential** execution of **Plans** inside **Groups**
- **Full Control** over **Robot Framework Parameters**
- **User Context** for **Desktop based tests**



Develop
the test

Run
the test

Monitor
the test

checkmk

Develop the test

Run the test

Monitor the test

checkmk

Synthetic Monitoring

Monitor > Synthetic Monitoring > Synthetic Monitoring

Dashboard Add Dashboards Display Help

Test nodes

2/2

OK tests

12/14

Scheduler status

State	Test node	Summary
OK	munich	Plan scheduling
OK	atlanta	Plan scheduling

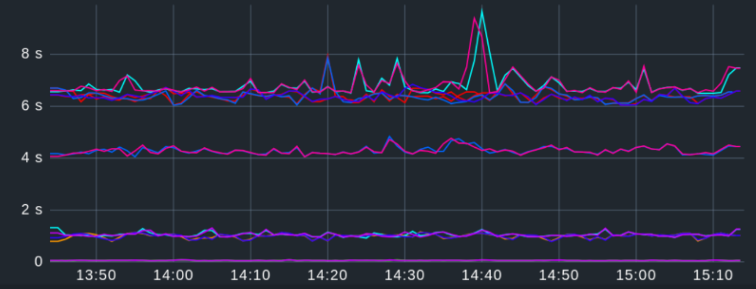
Plans

State	Test node	Application	Variant	Summary	Runtime-limit ratio
OK	munich	Webshop	DE	Runtime: 18 seconds, Limit: 1 minute 0 seconds, Ratio: 30.00%, Last execution: 2024-06-08 13:13:00 (UTC+00:00)	30 %
OK	atlanta	Webshop	DE	Runtime: 18 seconds, Limit: 1 minute 0 seconds, Ratio: 30.00%, Last execution: 2024-06-08 13:13:00 (UTC+00:00)	30 %
OK	munich	Webshop	EN	Runtime: 17 seconds, Limit: 1 minute 0 seconds, Ratio: 28.33%, Last execution: 2024-06-08 13:12:00 (UTC+00:00)	28.33 %
OK	atlanta	Webshop	EN	Runtime: 17 seconds, Limit: 1 minute 0 seconds, Ratio: 28.33%, Last execution: 2024-06-08 13:12:00 (UTC+00:00)	28.33 %
OK	munich	checkmk.com		Runtime: 10 seconds, Limit: 1 minute 0 seconds, Ratio: 16.67%, Last execution: 2024-06-08 13:13:00 (UTC+00:00)	16.67 %
OK	atlanta	checkmk.com		Runtime: 10 seconds, Limit: 1 minute 0 seconds, Ratio: 16.67%, Last execution: 2024-06-08 13:13:00 (UTC+00:00)	16.67 %

Top 5: Test runtime

Host	Service	Test runtime
munich	RMK play.checkmk.com_demo Test: Open Dashboards	7.03 s
atlanta	RMK play.checkmk.com_demo Test: Open Dashboards	7.03 s
munich	RMK Webshop_checkout_EN Test: Search Item And Add To Basket	6.59 s
atlanta	RMK Webshop_checkout_EN Test: Search Item And Add To Basket	6.59 s
munich	RMK play.checkmk.com_demo Test: Open Host Details	4.36 s

Test runtime



Tests

State	Test node	Application	Variant	Test	Summary	Runtime
CRIT	munich	Webshop	DE	Search Item And Add To Basket	FAIL	
CRIT	atlanta	Webshop	DE	Search Item And Add To Basket	FAIL	
OK	munich	Webshop	EN	Search Item And Add To Basket	PASS, Runtime: 7 seconds	6.59 s
OK	atlanta	Webshop	EN	Search Item And Add To Basket	PASS, Runtime: 7 seconds	6.59 s
OK	munich	checkmk.com		Download software	PASS, Runtime: 1 second	1.04 s
OK	atlanta	checkmk.com		Download software	PASS, Runtime: 1 second	1.04 s
OK	munich	checkmk.com		Open Homepage	PASS, Runtime: 61 milliseconds	61 ms
OK	atlanta	checkmk.com		Open Homepage	PASS, Runtime: 61 milliseconds	61 ms
OK	munich	play.checkmk.com		Open Host Details	PASS, Runtime: 4	4.36 s

Synthetic Monitoring Dashboard

All key information in one place

Synthetic Monitoring tests

Monitor > Synthetic Monitoring > Synthetic Monitoring tests

Commands Export Display Help

Webshop

State	Test node	Application	Suite name	Variant	Test	Actions	Summary
CRIT	munich	Webshop	checkout	DE	Search Item And Add To Basket		FAIL
CRIT	atlanta	Webshop	checkout	DE	Search Item And Add To Basket		FAIL
CRIT	munich	Webshop	checkout	EN	Search Item And Add To Basket		FAIL
CRIT	atlanta	Webshop	checkout	EN	Search Item And Add To Basket		FAIL

checkmk.com

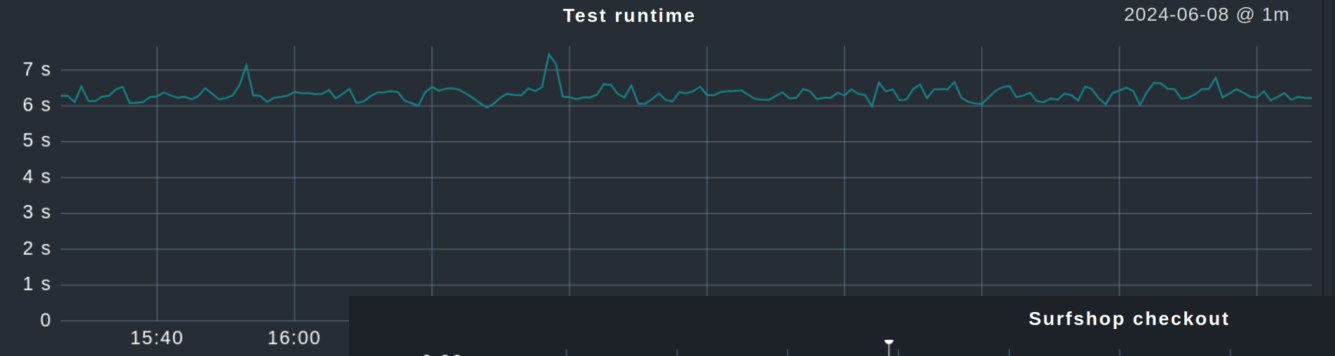
State	Test node	Application	Suite name	Variant	Test	Actions	Summary
OK	munich	checkmk.com	website		Download software		PASS, Runtime: 1 second
OK	atlanta	checkmk.com	website		Download software		PASS, Runtime: 1 second
OK	munich	checkmk.com	website		Open Homepage		PASS, Runtime: 74 millisecond
OK	atlanta	checkmk.com	website		Open Homepage		PASS, Runtime: 74 millisecond
OK	munich	checkmk.com	website		Open Pricing		PASS, Runtime: 1 second
OK	atlanta	checkmk.com	website		Open Pricing		PASS, Runtime: 1 second

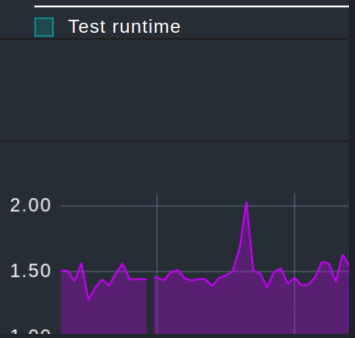
play.checkmk.com

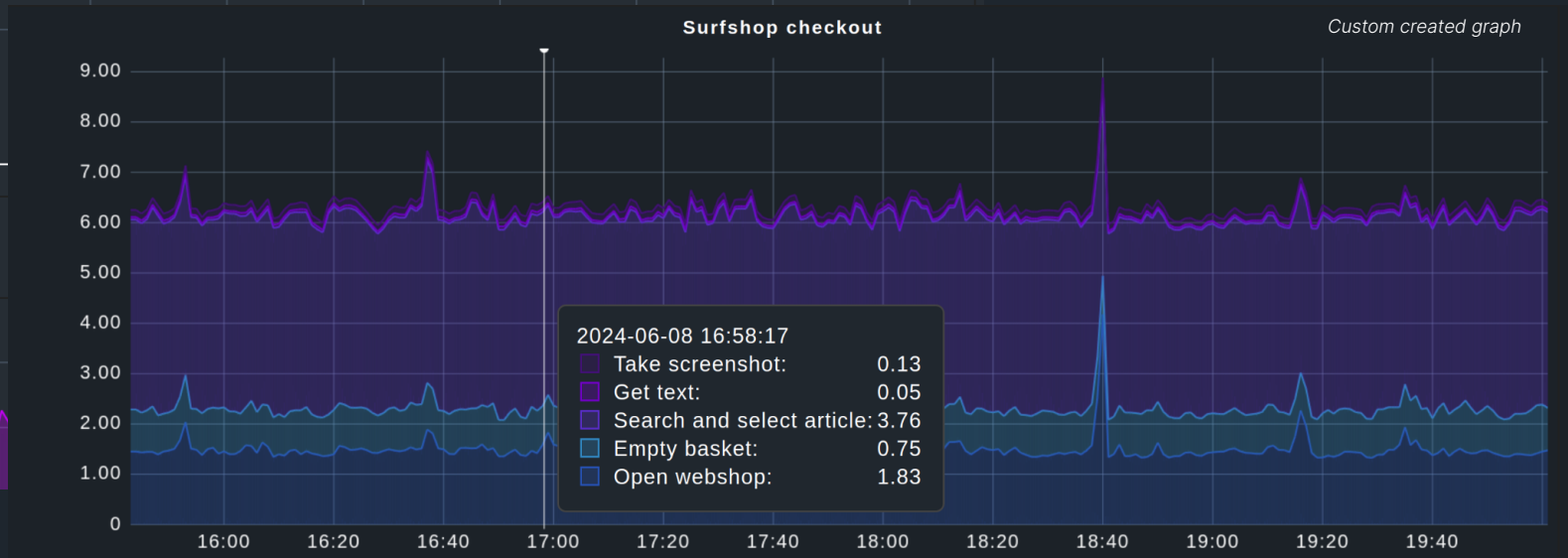
State	Test node	Application	Suite name	Variant	Test	Actions	Summary
OK	munich	play.checkmk.com	demo				ds
OK	atlanta	play.checkmk.com	demo		Open Dashboards		PASS, Runtime: 7 seconds

Comprehensive test overview

Structured per application







	Minimu				8
Take screenshot	0.				3
Get text	0.				5
Search and select article	3.				6
Empty basket	0.72	1.07	0.82	0.85	0.75
Open webshop	1.31	4.18	1.48	1.48	1.83

Powerful visualizations

Built-in + create your graphs

Robotmk logs Display Help

Statistics by Suite	Total	Pass	Fail	Skip	Elapsed	Pass / Fa
Checkout	1	1	0	0	00:00:12	

Test Execution Log

SUITE **Checkout**

Full Name:	Checkout
Documentation:	This suite verifies that the checkout process shows the correct final price.
Source:	C:\Robots\tests\oxid.robotmk.org\checkout.robot
Start / End / Elapsed:	20240608 15:20:03.136 / 20240608 15:20:15.554 / 00:00:12.418
Status:	1 test total, 1 passed, 0 failed, 0 skipped

TEST **Search Item And Add To Basket**

Full Name:	Checkout.Search Item And Add To Basket
Documentation:	Searches an article, adds it to the basket and tries to navigate to the checkout page.
Start / End / Elapsed:	20240608 15:20:04.363 / 20240608 15:20:10.504 / 00:00:06.141
Status:	PASS

SETUP webshop_oxid.**Open Webshop**

KEYWORD webshop_oxid.**Empty Basket**

KEYWORD webshop_oxid.**Search And Select Article** article_id=${ARTICLE_ID} article_title=${ARTICLE_TITLE} article_pri

Built-in logs for tests

Directly troubleshoot within Checkmk

Robot Framework: Last log

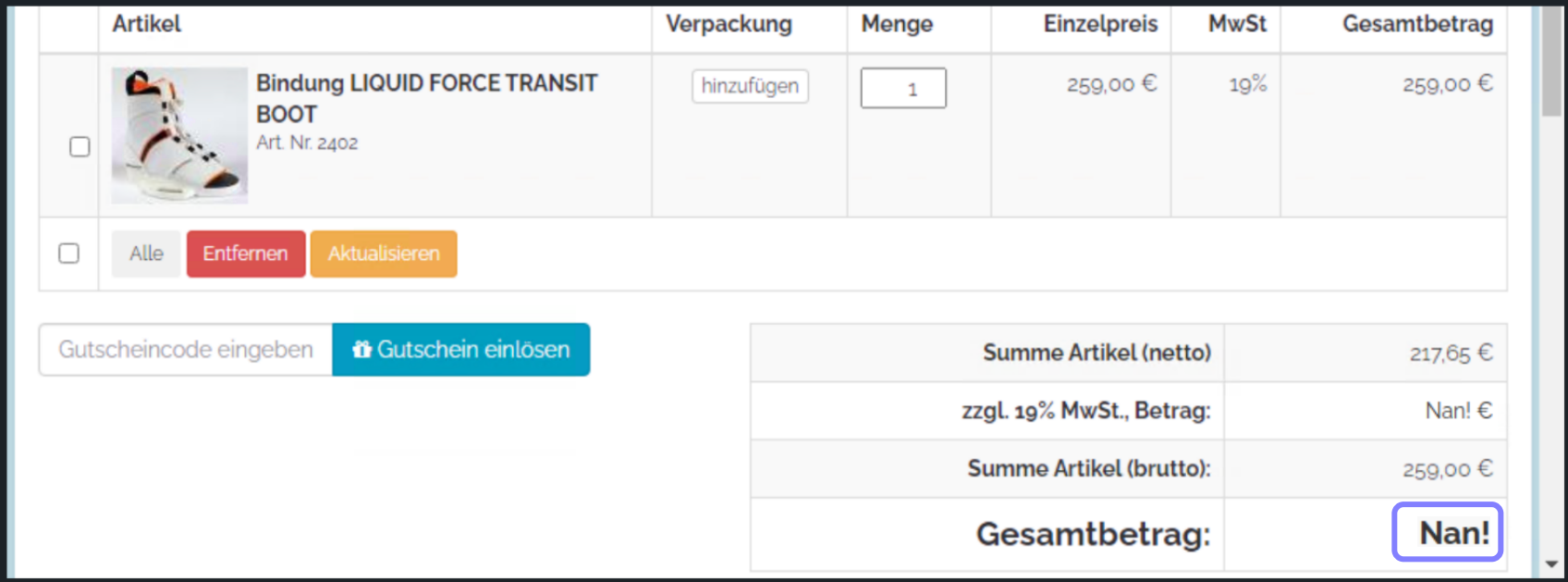
Monitor > Overview > All hosts > webshop > Services of Host > Service

Including screenshots for failures

Directly troubleshoot within Checkmk

Robotmk logs | Display | Help

Download | Last error log | Services of Host



17:50:11.374 INFO See also file:///C:/ProgramData/checkmk/agent/robotmk_output/working/plans/OXIDWebshop_checkout/2024-05-23T17.50.00.160730200%2B0000/playwright-log.txt for additional details.

17:50:11.375 FAIL msg=ERROR: Did not find the expected price 259,00 € for article ID 2402 (Bindung LIQUID FORCE TRANSIT BOOT)!

TEARDOWN Browser.Take Screenshot EMBED selector=div#content 00:00:00.188

Robot Framework: Last log

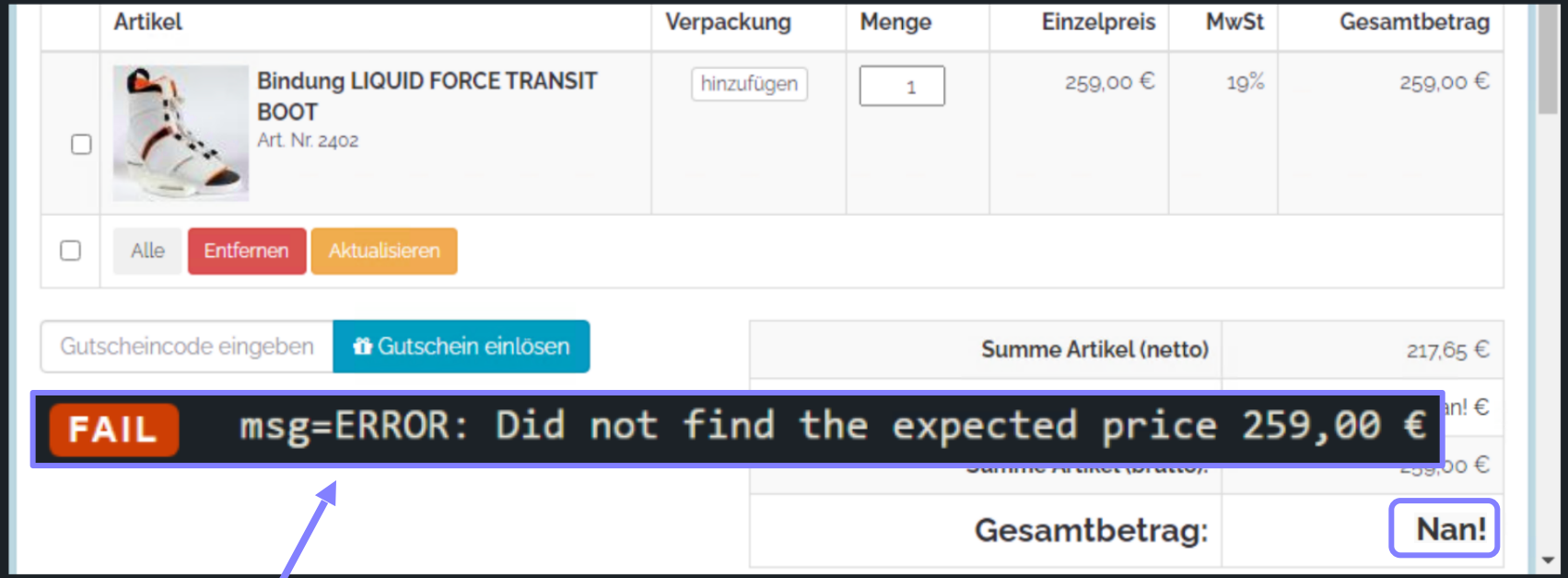
Monitor > Overview > All hosts > webshop > Services of Host > Service

Including screenshots for failures

Directly troubleshoot within Checkmk

Robotmk logs | Display | Help

Download | Last error log | Services of Host



FAIL msg=ERROR: Did not find the expected price 259,00 €

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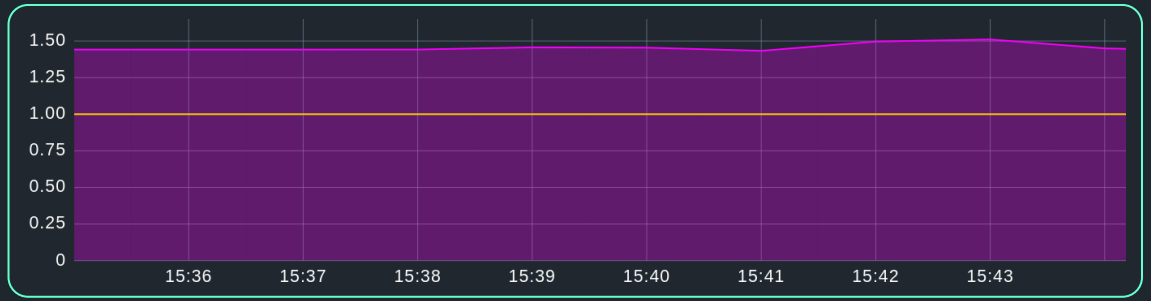
TEARDOWN Browser.Take Screenshot EMBED selector=div#content 00:00:00.188

Monitor performance in-depth

- Alert on overall test runtime
- Alert on individual segments of your test

Test runtime: 6 seconds
Test steps (Keywords):
- Open Webshop: 1 second
Keyword Open Webshop runtime: 1 second (warn/crit at 1 second/2 seconds) WARN
- Empty Basket: 731 milliseconds
- Search And Select Article: 4 seconds
- Get Text: 49 milliseconds
- Take Screenshot: 133 milliseconds



Checkmk
Conference

Maximum test runtime
Fixed levels
Warning at 1 mins 0 s
Critical at 2 mins 0 s

Enable metrics for high-level keywords
Maximum **Keyword** runtime

Keyword pattern (required)
Open homepage

Keyword runtime
Fixed levels
Warning at 0 mins 2 s
Critical at 0 mins 5 s

Keyword pattern (required)
Download

Keyword runtime
Fixed levels
Warning at 0 mins 20 s
Critical at 0 mins 30 s

2.3 is just the beginning of our journey

What's next for Checkmk Synthetic Monitoring

Develop the test

Faster, simpler test authoring

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Robot manager

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Linux support; Windows headless desktop tests

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What's next for Checkmk Synthetic Monitoring

Develop the test	**Run** the test	**Monitor** the test
Faster, simpler test authoring	**Robot manager**	**More insights & improved monitoring**
	Linux support; Windows headless desktop tests	
	Run your robots in the Checkmk Cloud	

How to get started?

Your journey with Synthetic Monitoring begins here

- **Try now:** Up to 3 tests for free
- **Resources**:
  - Checkmk Synthetic Monitoring **documentation:** https://docs.checkmk.com/latest/en/robotmk.html
  - Checkmk **YouTube** Channel: https://www.youtube.com/@checkmk-channel
  - Checkmk **blog** https://checkmk.com/blog
  - **Robotmk Homepage:** https://www.robotmk.org
  - Sign up for the **Robotmk** Academy **Online Course:** https://www.robotmk.org/academy

slido

Audience Q&A Session

ⓘ Click Present with Slido or install our Chrome extension to show live Q&A while presenting.


10