ca World '17

AUTOMATION

Pre-Con Ed: CA Workload Automation AE and Agents: Why Not Just Write a Script?

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Agenda

1. MICRO FLOWS
2. A NEW APPROACH TO SCHEDULING FOR DEVOPS
3. USE CA WORKLOAD AUTOMATION (CA WA) FOR BETTER APPLICATION MONITORING

Micro Workflows Description

- A Micro workflow is a set of Scripts
  - Perform scheduling tasks (control flow and dependencies)
  - Include Condition code checking
  - Include Resource checking
  - Include Activity logging
  - Include Notifications (pages, email)
- Why do Micro workflows exist
  - Legacy development approaches
  - Outdated scheduling tools
- Where can you find Micro workflows
  - Open systems platforms
  - Mainframe
  - Vendor products or tools

Micro Workflows Description

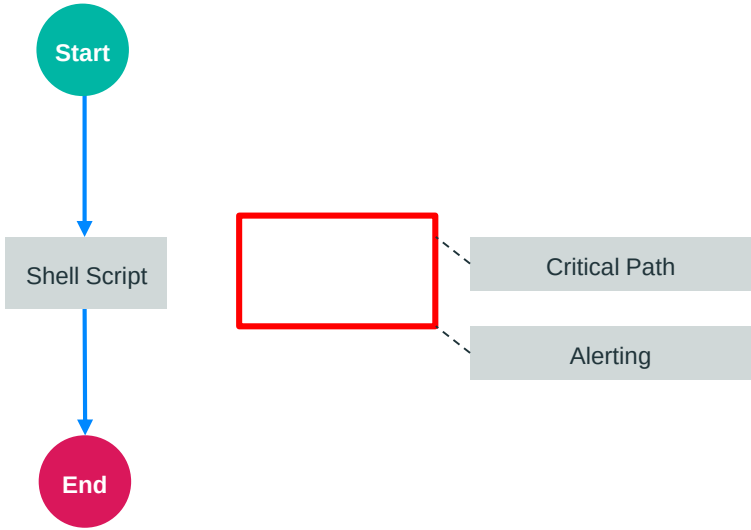
- Low visibility to the control paths
- Low level of transparency
  - What services, databases, FTP servers, web servers, etc… are necessary for this business process/application
- Tightly coupled control flows and business logic

Micro Workflows Description

- Developer must code:
  - log activity needed for recovery
  - Monitoring capabilities
- Limited or no ability to restart parts of the process

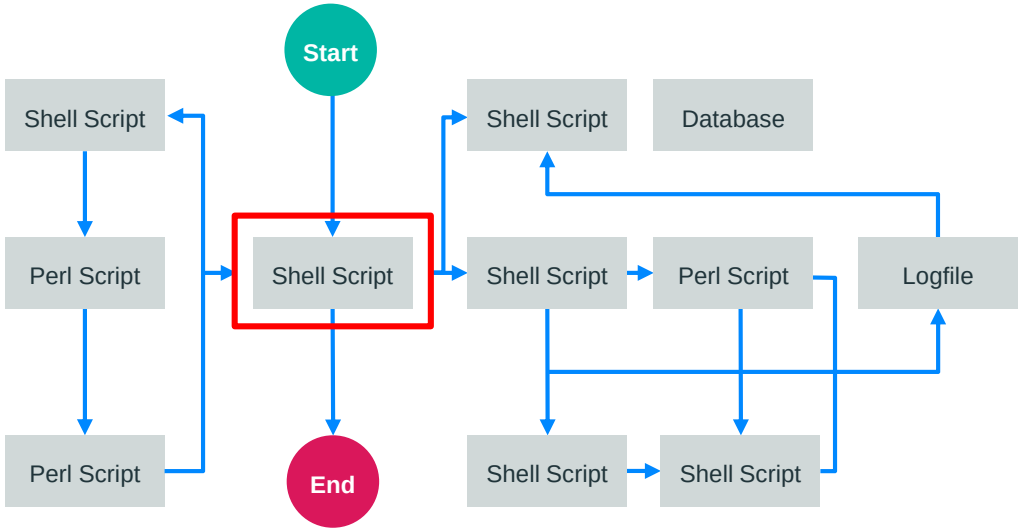
CA Workload Automation Executes and Monitors a Single Script

- What is seen by CA WA looks like a very simple process
- One return code is sent back from the System Agent to CA WA



What That One Script Actually Executes

- There are many processes that are not monitored
- Critical processes are not known
- Processing exceptions are not known



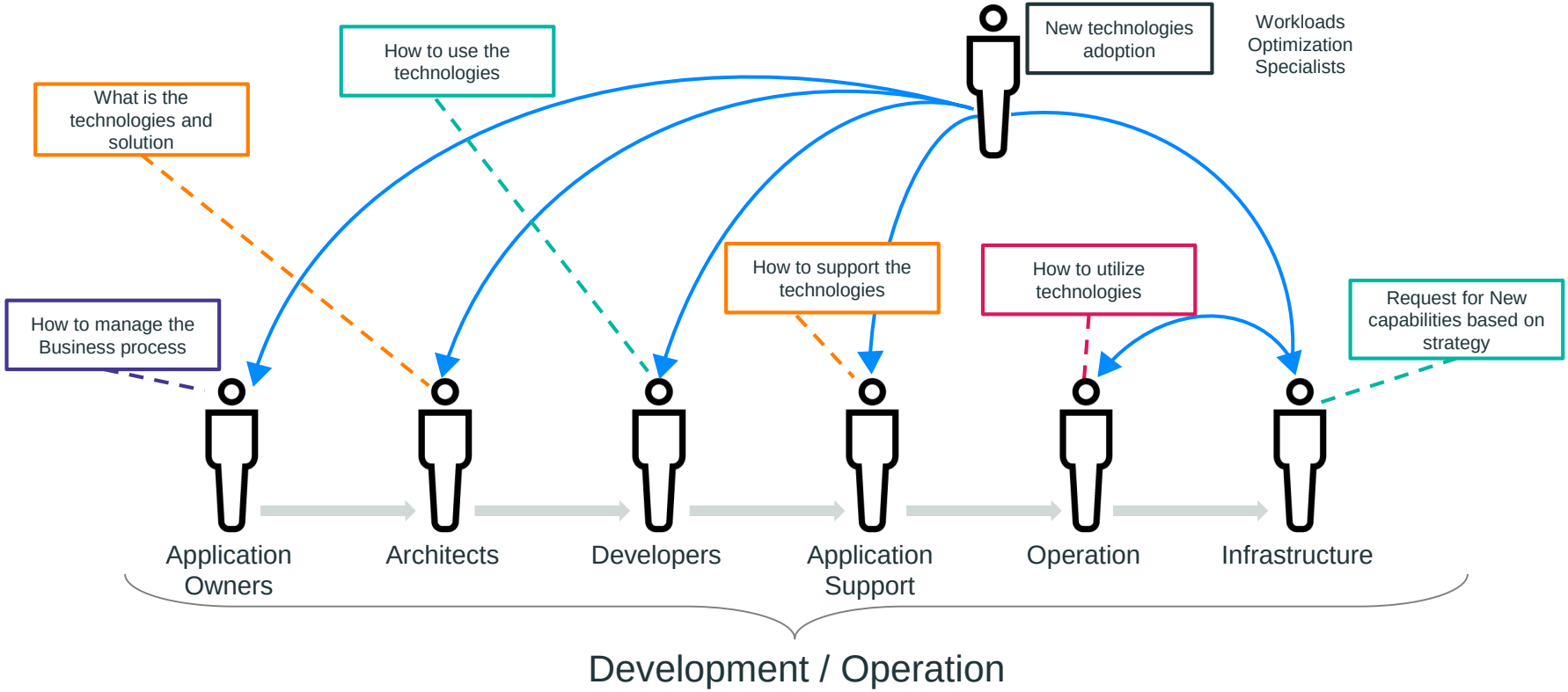
Micro Workflows Approach and Solution

- Change the approach to developing workflows
  - Isolate business logic from environment management, alerting, notification, process control and process dependencies
  - Educate the application Owner and development teams on the why and the how of the new approach
  - Develop maturity in the creation and management of return codes (Abend situations) that identify the root cause of the error
- Create a new role (Workload Optimization Specialists) to focus on run capability for development, test and production workloads

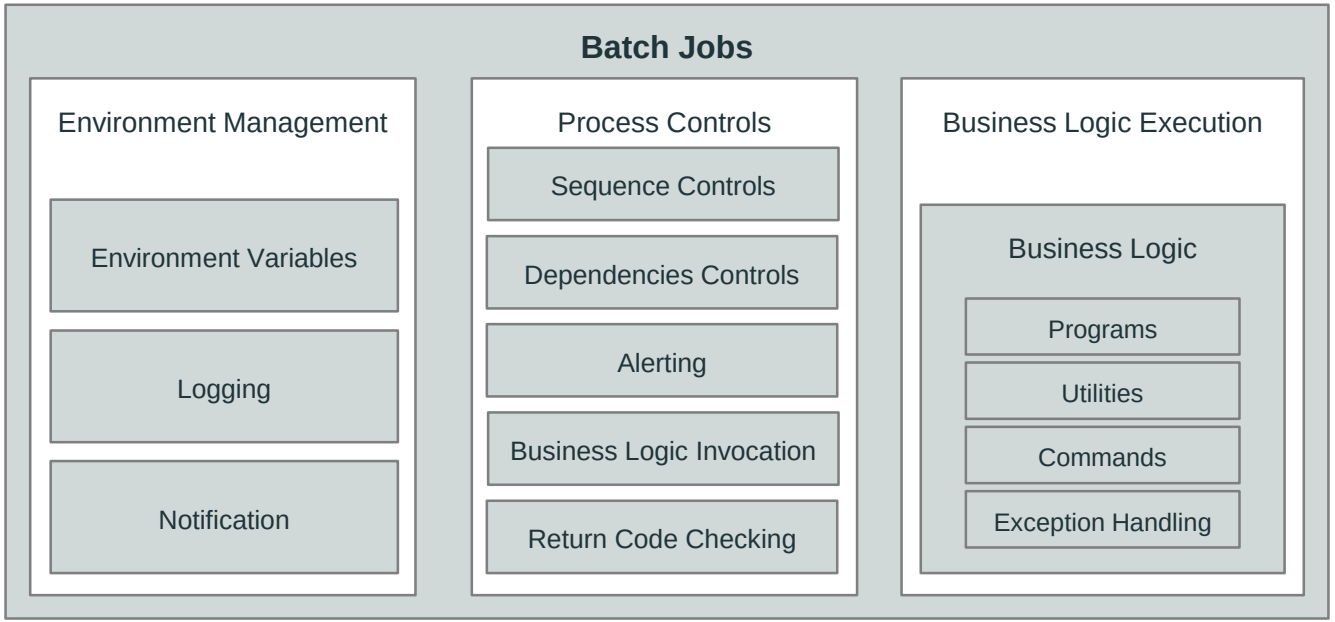
Micro Workflows Solution (Cont'd)

- Use of CA WA technologies and Application Integration Agents (plug-ins)
  - Variable substitution to enable creation of job definition templates
  - Using the plug-in to replace scripts to support the new approach
  - Let CA WA control the scheduling of workloads and their dependencies
  - Use condition code checking and logic to create automation for recovery

DevOps Approach To Workflow Management



Micro Workflows Component Model



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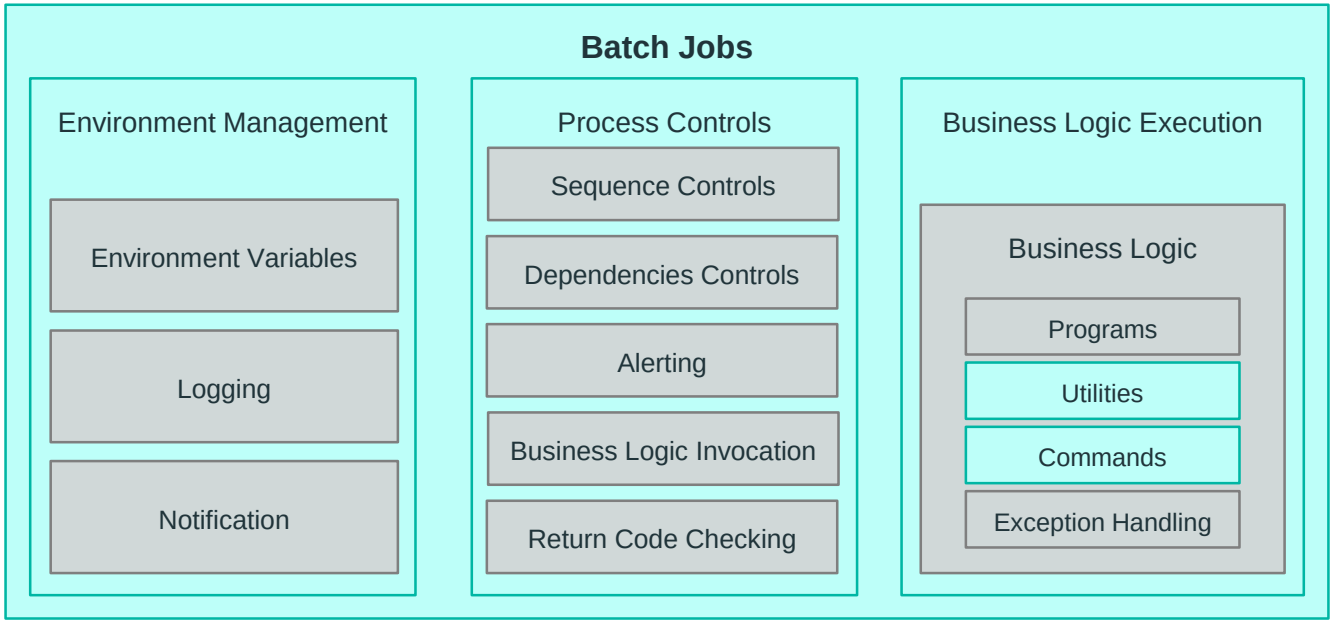
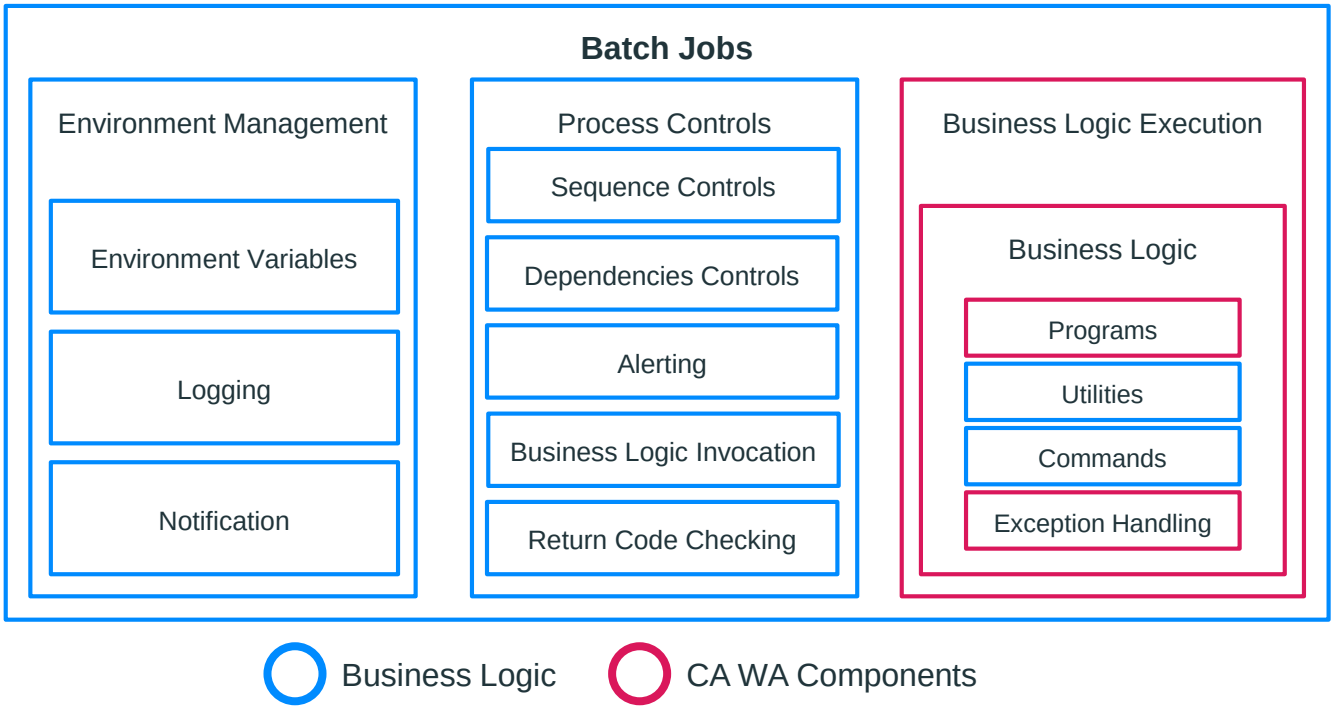


Micro Workflows Component Model



How to Leverage CA Workload Automation for Better Application Monitoring

Existing Integrations

Agent

- ✓ UNIX
- ✓ LINUX
- ✓ z/LINUX
- ✓ WINDOWS
- ✓ IBM I5
- ✓ HP Non Stop (Tandem)
- ✓ z/OS

Integrations

- ✓ Oracle e-Business Suite
- ✓ PeopleSoft
- ✓ SAP
- ✓ Application Services
- ✓ Web Services
- ✓ Databases
- ✓ MSSQL
- ✓ Informatica
- ✓ MicroFocus
- ✓ Remote Execution

Advanced Integrations

- ✓ SAP Solution Manager
- ✓ SAP Business Warehouse
- ✓ Hadoop

New Batch Job Patterns – Before

- Only a single job is monitored
- No visibility on what the application is actually executing

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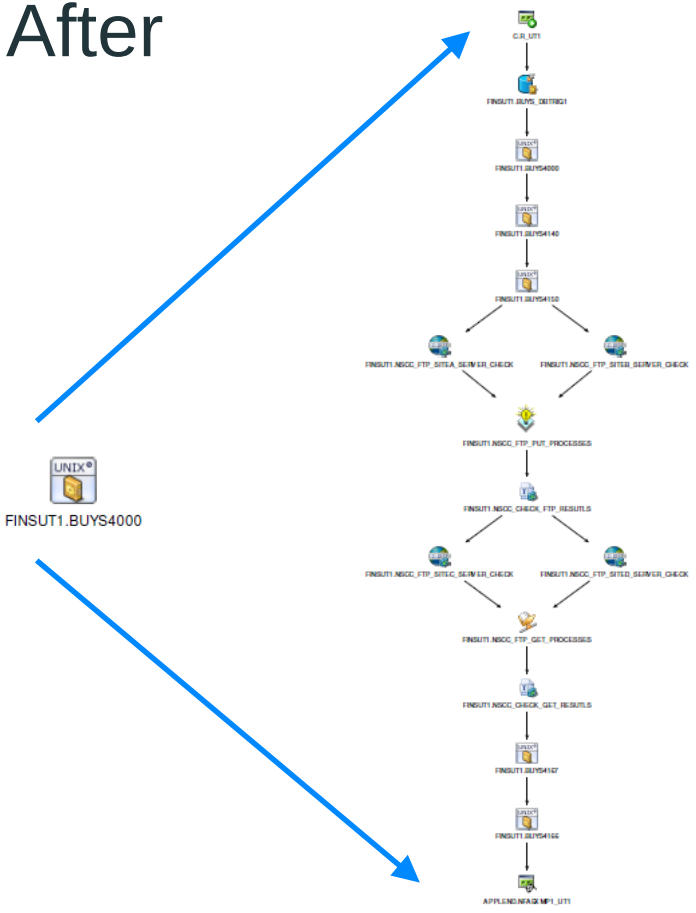
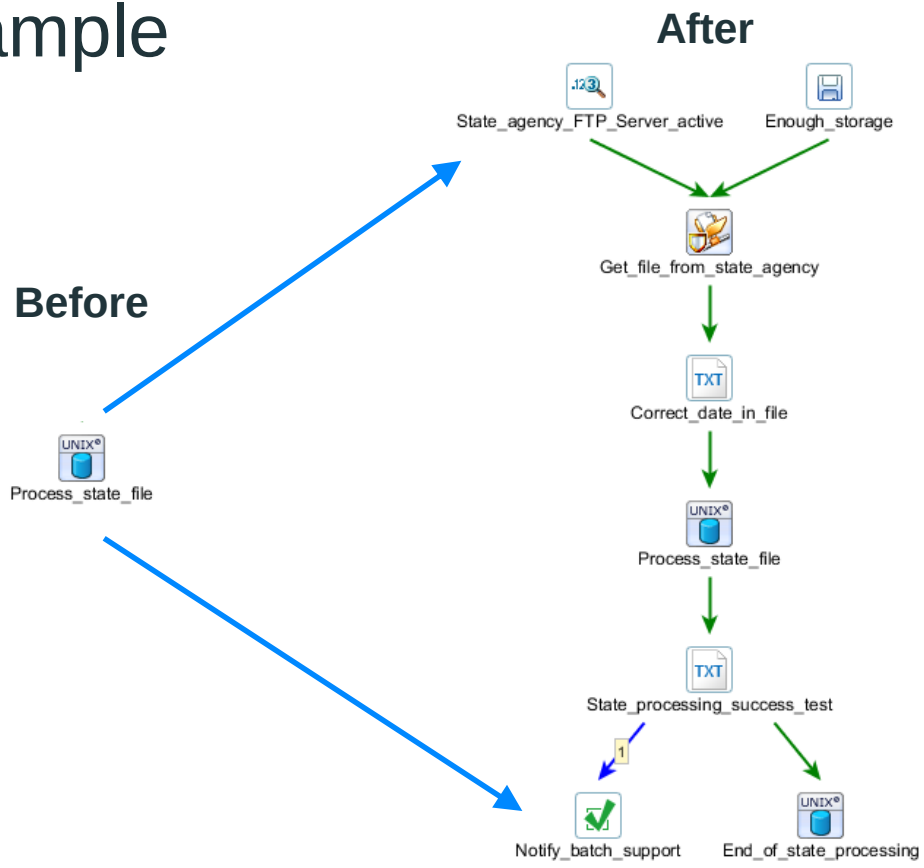
New Batch Job Patterns – After

- All of the critical application processes are monitored by CA WA
- Individual processes can have SLAs assigned to them and alerts executed on processing exceptions



A Simple Customer Example

- A single Unix script was used to:
  - SFTP the file
  - Check the date on the first record
  - Process the file
  - Check to see if the processing was successful
  - Notify support personnel if not successful



Summary

- Simplify script writing
- Provide transparency on resources needed/used in business process
- Easier to find where some service is being used should it need to be changed

Questions?

Recommended Sessions

SESSION #	TITLE	DATE/TIME
AUT40T	Realize Better ROI and Security with Proper Use of Job Types in CA Workload Automation AE	11/15/2017 at 12:45 pm
AUT11S	Workload Automation Futures: CA Workload Automation and CA Automic Workload Automation	11/16/2017 at 12:45 pm
AUT08S	The Workload Automation Future is Bright – An Expert Workload Automation Partner's View on the Best of CA Automation Solutions	11/16/2017 at 2:30 pm

Must See Demos

Empower Digital Transformation

701
Automation

Workload and Big Data Automation

703
Automation

Automate the DevOps Tool Chain

712
Automation

Extra Technology

714
Automation

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