

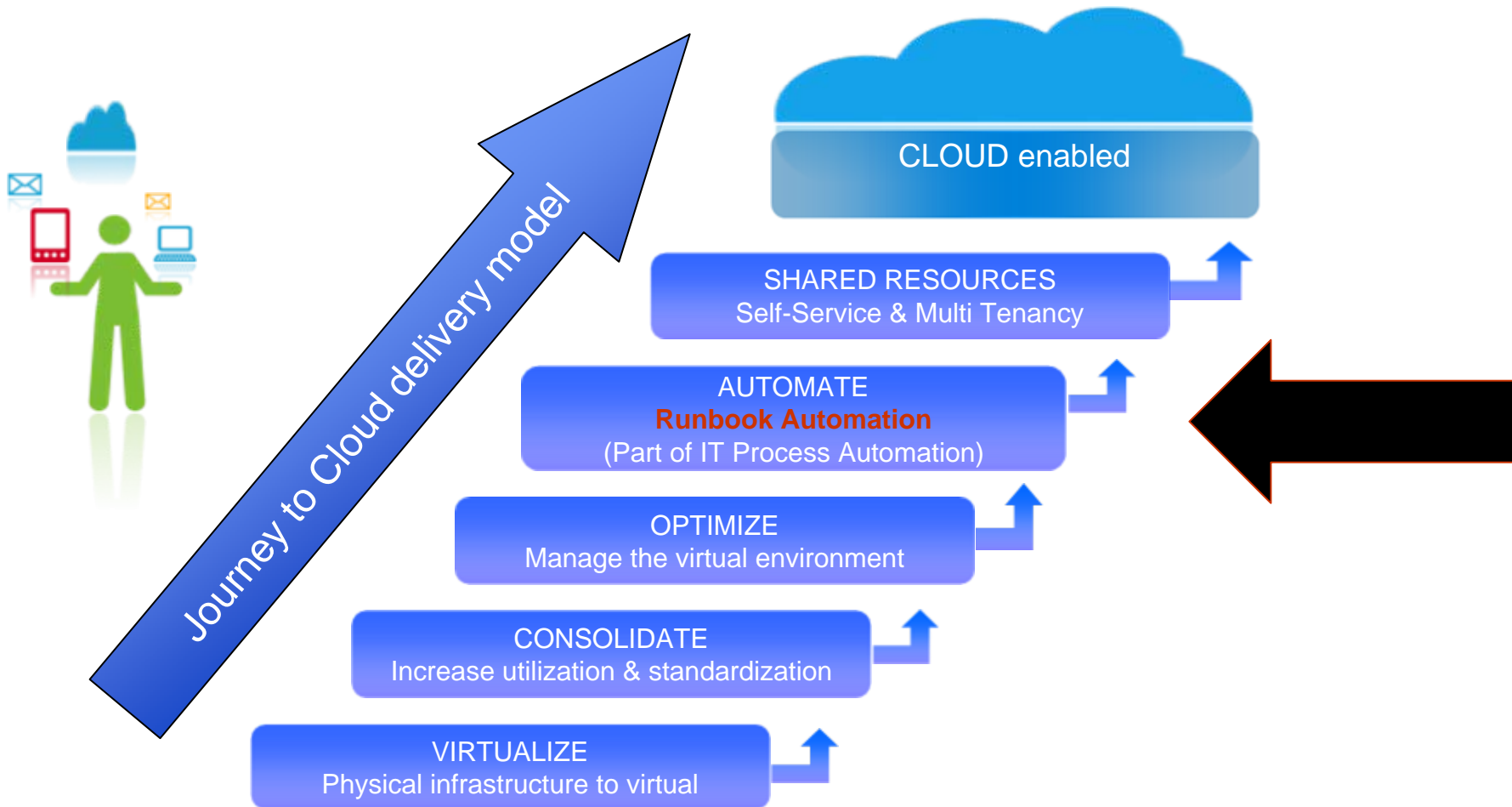
## RUN BOOK AUTOMATION (RBA)

Uno strumento per automatizzare le attività operative integrandole nei processi di gestione

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# Passi fondamentali per realizzare un modello di Cloud



Easy-to-use, Out-of-the-Box Content and the flexibility to Customize the solution are critical to ALL Runbook Automation solutions

## Run Book Automation da valore all'automazione

### Valore per una Automazione dei Datacenter

Fornisce automazione attraverso tutte le discipline di gestione ed interagisce con tutti i tipi di elementi infrastrutturali come applications, servers, databases e networks...

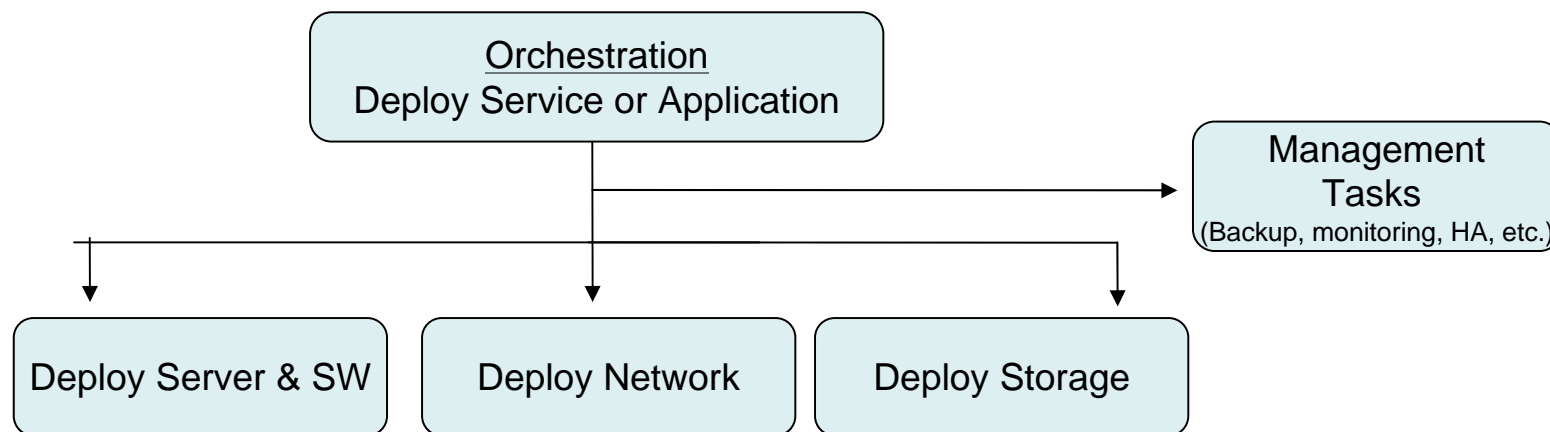
### Valore per il modello di Cloud Computing

Integra Task di Automazione con gli strumenti di Process Automation

(e.g Change management, Service Request Management, and Event/Helpdesk Tools)

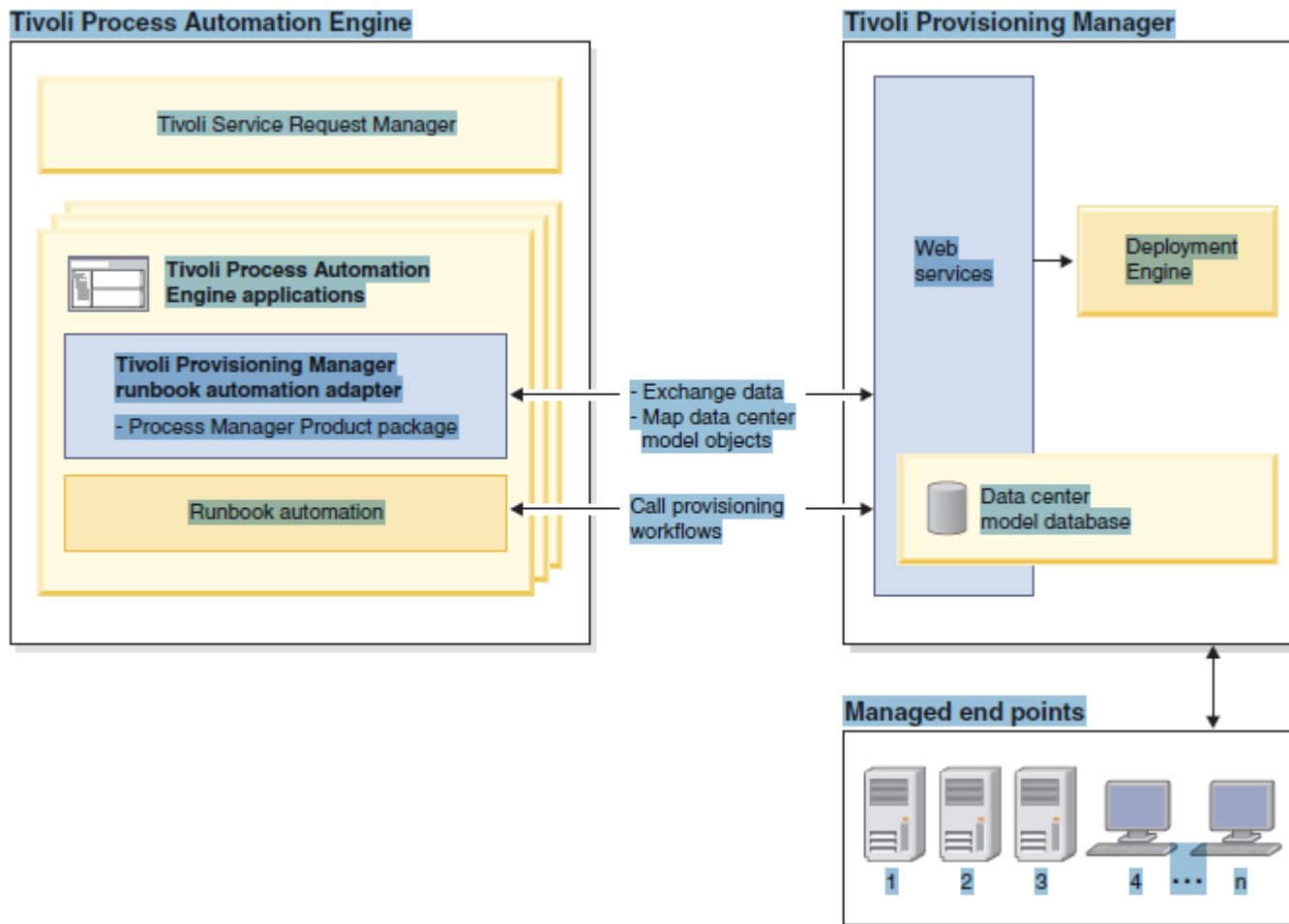
## Il valore della Soluzione IBM di RunBook Automation

- **Combina livelli multipli di automazione in maniera semplice**
- **Integra task di automazione e workflow di processo in unica interfaccia grafica facile da usare (drag & drop)**
- **Fornisce una consistente libreria di azioni predefinite che possono essere richiamate all'interno di workflow predefiniti**



**Write automation once, use many time...**

# Architettura dei componenti coinvolti nell'automazione



# Elementi chiave e terminologia di RBA

## Process Automation:

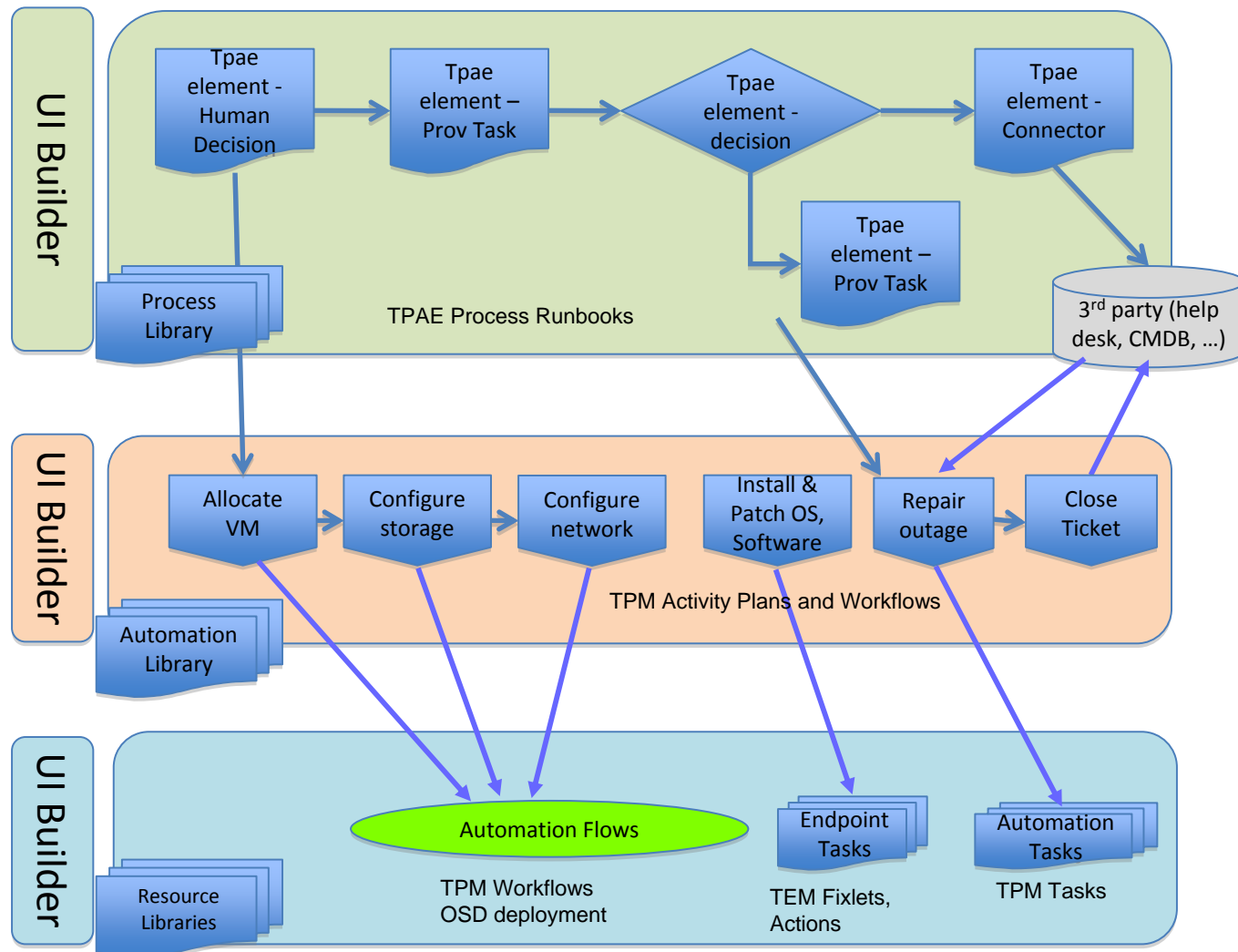
Define and assemble the business processes used to manage the data center resources (e.g. self serve private cloud access)

## Task Automation:

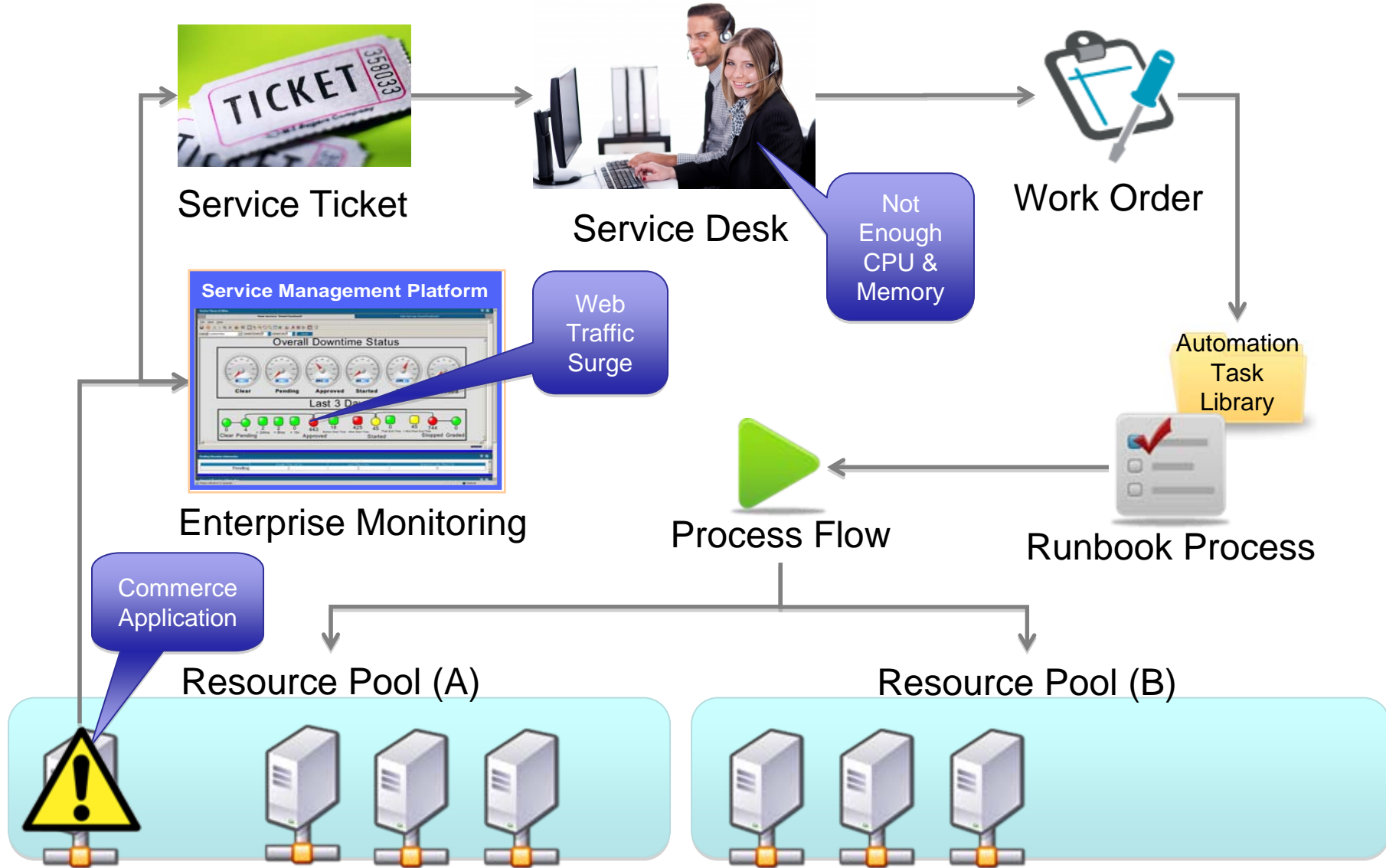
Customize existing automation flows to realize the provisioning functions needed by the business processes. Define procedure if required. (e.g. provision new team to a private cloud, provision VMs on demand)

## Resource Automation:

Customize task automation for the specific data center environment – device/resource specific automation via APIs (e.g. network/storage vendor APIs and tools, OS specific services (deployment, patch), custom software installs)



# Process Delivered Task Automation



# Esempi di Tasks di automazione forniti da Librerie RBA

```

graph LR
    START[START RB  
Start Runbook Process] --> APPROVAL[APPROVAL  
Get Manager Approval]
    APPROVAL --> MOVEVMS[MOVEVMS  
Scan Apps, Find Resource Pool, move Virtual Machines]
    MOVEVMS --> ALARMTXED[ALARMTXED  
Verify Application Performance Conditions and Alarm]
    ALARMTXED --> WOCLOSE[WOCLOSE  
Close Work Order]
    APPROVAL -.-> ERROR[ERROR STOP  
ERROR STOP]
    ERROR -.-> MOVEVMS
    
```

**Classification Search**

- TP\_ACTION:
  - WORKORDER:
    - ACME/NEWCUST
    - ACME/VMREQUEST
    - CISCO
    - CORE
    - DEFAULT
    - DISCOVERY
    - HARDWARE
    - ITM
    - KVM
    - SWFT
    - VMWARE

**Action** Filter > 46 - 50 of 201

Action	Description	Object
TP_DB2WIN_INSTANCE DROP		WORKORDER
TP_DB2WIN_INSTANCE START		WORKORDER
TP_DB2WIN_INSTANCE STOP		WORKORDER
TP_DB2WIN_PRODUCT INSTALL		WORKORDER
TP_DB2WIN_PRODUCT UNINSTALL		WORKORDER

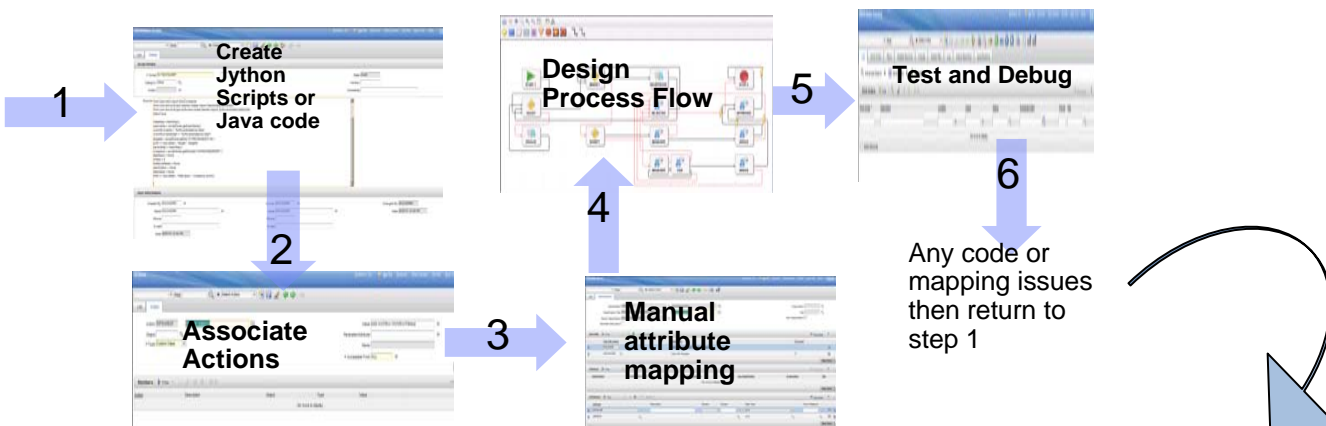


## RBA e' disponibile sulla versione 7.2.0.2 di TPM

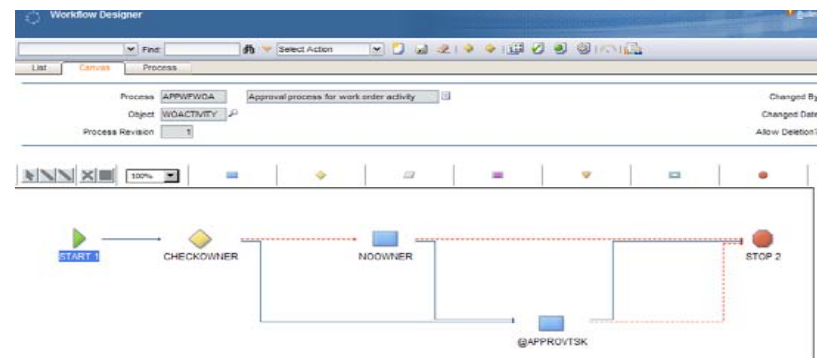
- TPM fornisce accesso ad un largo numero di librerie di automazione (> 1100):
  - core automation libraries (300)
    - e.g. command execution, discovery, file transfer
  - virtualization automation libraries (180)
    - e.g. OS deployment, virtual resource allocation, virtual server management
  - software deployment and management (400)
    - e.g. software install, distribution, software stack deployment, software instance management
  - network management (250) PLUS many more via Intelliden integration
    - e.g. cisco csm/mds/pix, cisco switches and discovery, nortel alteon
    - e.g. Intelliden integration: 9 key operations for each device; Cisco, Brocade, Juniper
  - storage management (30)
    - e.g. TPC integration

## Processo di Automazione senza RunBook Automation

Multi step process to integrate task automation to process runbooks; lack of example process flows and no bundled graphical interface for the tooling;

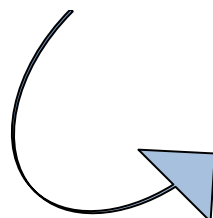
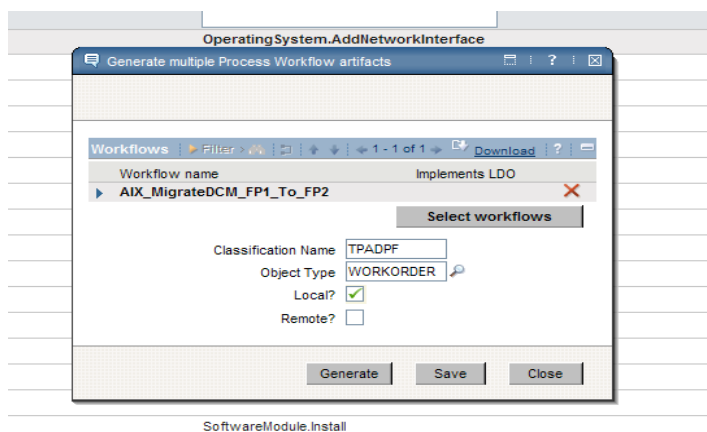


Implementing process workflow

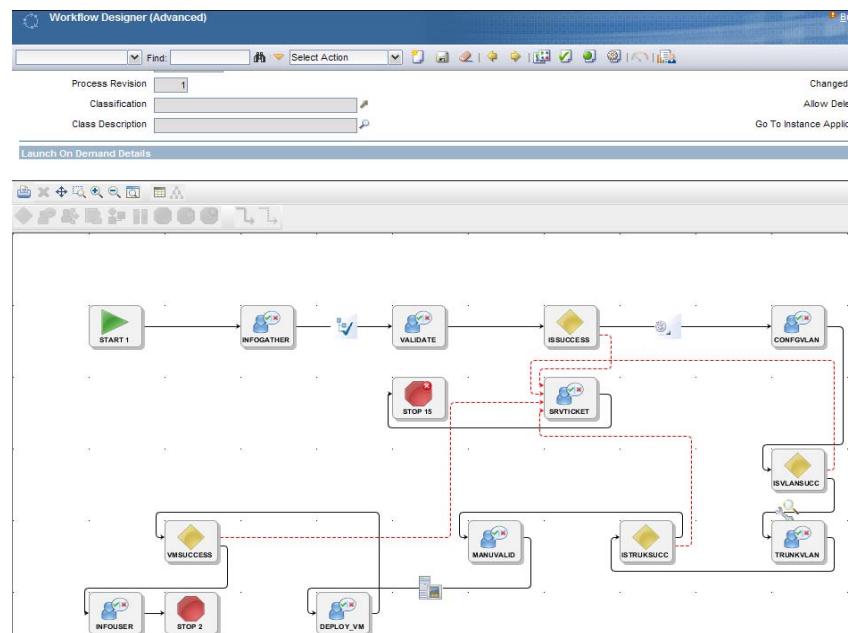


# Processo di Automazione con il RunBook Automation

Pregenerated or 1 click to create task automation artifacts; essential sample process flows out of the box (Intelliden, KVM) and bundled graphic flow creation tool.

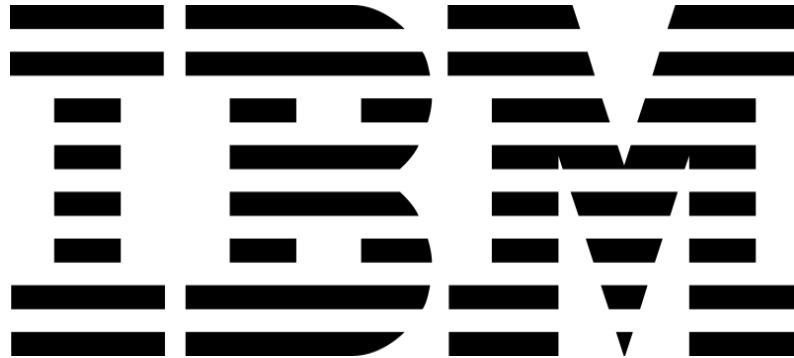


## Unified Graphical Orchestration Tooling



## Punti di forza del RBA nella soluzione Tivoli con TPM

- 1. Fornisce automazione su piu livelli di gestione (processi, tasks e risorse) in maniera integrata**
- 2. Ha la capacità di automatizzare e differenziare sia ambienti virtuali che fisici**
- 3. Fornisce Librerie centralizzate per gestire le immagini su Hypervisor eterogenei:**
  - **Composite Image Management – Topology and Versioning**
  - **Lower TCO with less infrastructure required for large environment**
  - **Ability to scale to 50K endpoint with single server**
  - **Advance AIX & System P discovery, control, provision and live partition mobility**
- 4. La soluzione si poggia su uno strumento di provisioning che ha la capacità di gestire sia la fornitura di patch che di OS che di applicazioni SW , di gestire il lifecycle di immagini virtuali e si integra con strumenti di Service Desk e di Monitoraggio di infrastruttura**



Runbooks Automation e' disponibile sulle versioni di:

- IBM Tivoli Provisioning Manager (TPM) 7.2.0.2
- IBM Tivoli Service Automation Manager (TSAM) 7.2.2
- IBM Service Delivery Manager (ISDM) 7.2.2

For more information or assistance, please visit the TPM Information Center:

<http://publib.boulder.ibm.com/infocenter/tivihelp/v45r1/index.jsp>

## **Journey To Cloud Community**, including Runbook Demos:

<http://w3.ibm.com/connections/communities/service/html/communityview?communityUuid=0fd6322f-7ecd-4cd9-bb5b-21018b3e8c81>

# Thank You!