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# Garanti Teknoloji and Rational BuildForge

## Practical and Efficient Synergy

**Çiğdem Yurdakul**
Garanti Teknoloji, Change, Configuration,Release Management

**Kerim Çakmak**
IBM Rational CEE Technical Sales Specialist
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# Agenda

IBM

- Introduction to IBM Rational Build Forge
- Brief overview of Garanti Teknoloji
- IBM Rational Buil Forge  Implementation and Execution Environment in Garanti Teknoloji
- Questions

# Who is Garanti Teknoloji (GT)?



- A wholly-owned subsidiary of Garanti Bank, the second largest private bank in Turkey owned by Doğuş Group Co. and Banco Bilbao Vizcaya Argentaria S.A. (BBVA), under the principle of equal partnership
- One of the largest IT service providers in Turkey
- Creates tightly integrated and fully in-house developed, custom-fit IT solutions
- Provides technology infrastructure, software development, internet applications, integration, system management, security management, project management and office applications services to companies which are working on banking and financial services

# GT in numbers



- **People**
  - 964 - personnels
  - 33 - average age
  - 4% - average turnover rate
  - 6.1 - average tenure
- **Capacity**
  - 34,342 MIPS - Mainframe ( z196 ) capacity
  - 3 PB - Disk
  - 2600 - Server
    - 1100 – Vmware
  - 900 - Application Server
    - 730 – Unix
    - 170 – Windows
  - 30000+ - PC and Mobile Devices

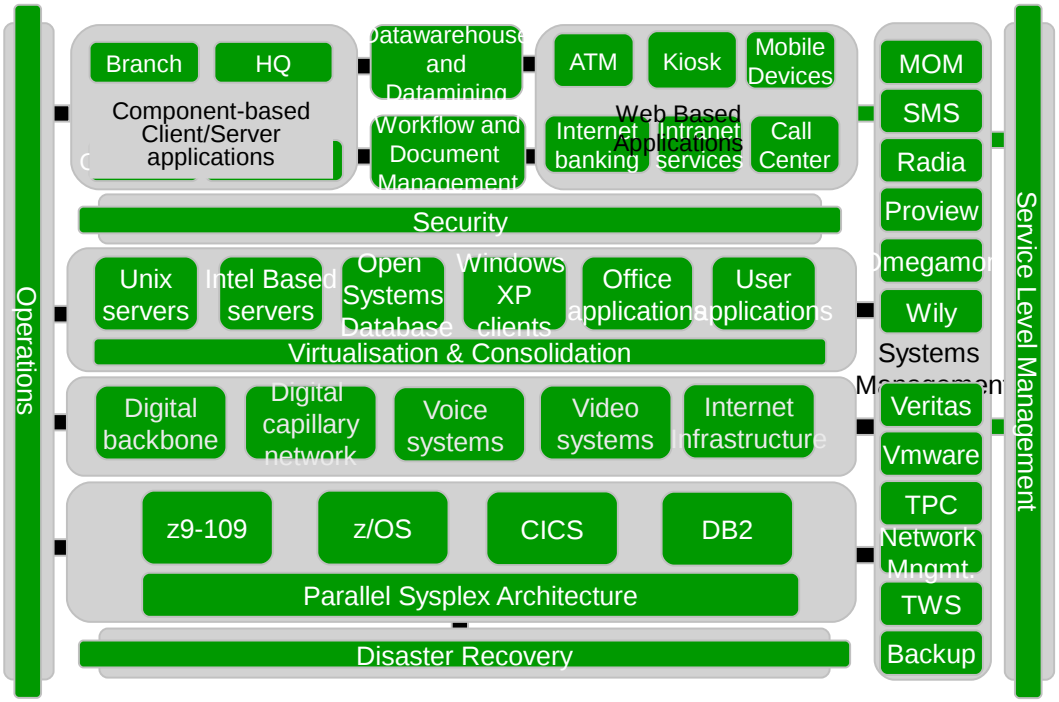
- **Customers**
  - 48 - firms
    - Garanti Bank, GarantiBank International, Garanti Leasing, Garanti Factoring, Garanti Emeklilik, Garanti Portföy, Garanti Yatırım….

- **Transactions**
  - Daily 300M
  - Daily 700K Internet Login
  - Monthly 30 M Internet Operations

- **Process**
  - 520000-Yearly Solved Problems
  - 250000-Yearly Performed Changes
  - 4700 - Yearly Performed Projects

# Technology Infrastructure



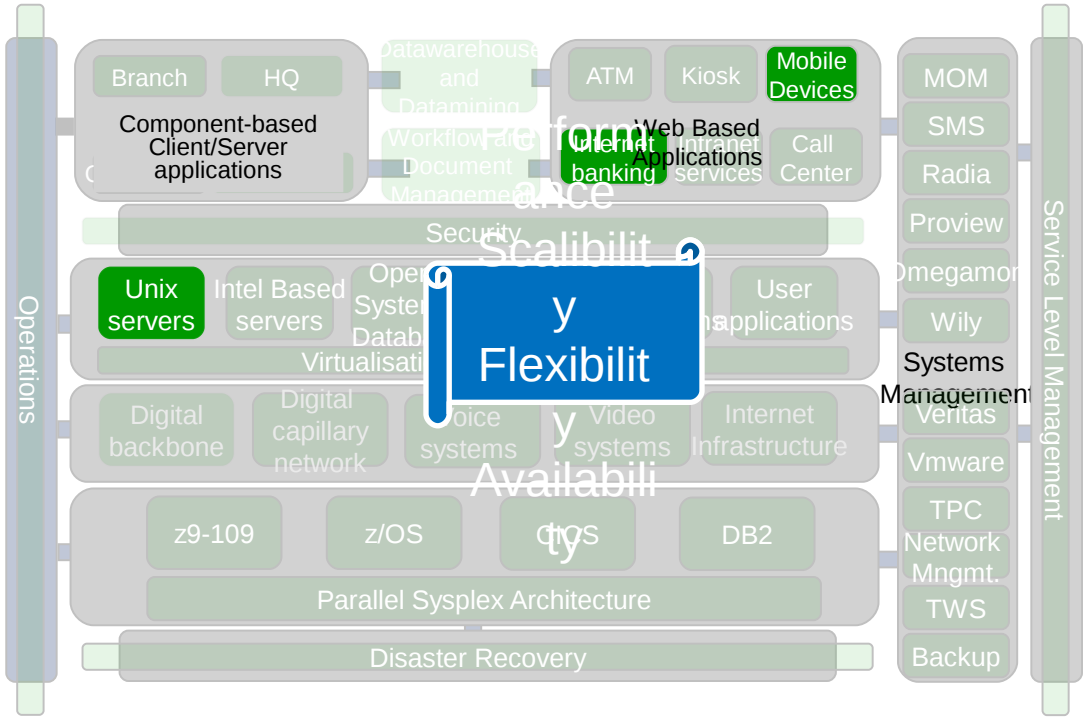


# Deployment Requirements



- **Flexibility**
  - Adaptable to different  architectures
- **Compliancy**
  - Compilant with COBIT
  - Obeys regulatory rules
- **Efficiency**
  - With less effort -coding,cost, maintanence-  all platforms  are supported
- **Performance**
  - Deployment should end in a short time
- **Scalibility**
  - When applications grow too fast , deployment tool still valid
- **Availability**
  - Deployment is 7/24 process
  - While deployment occurs , deployed  application is up and running
- **Reliability**
  - Frequently used , critical process running for critical applications

# Technology Infrastructure - Java / Unix

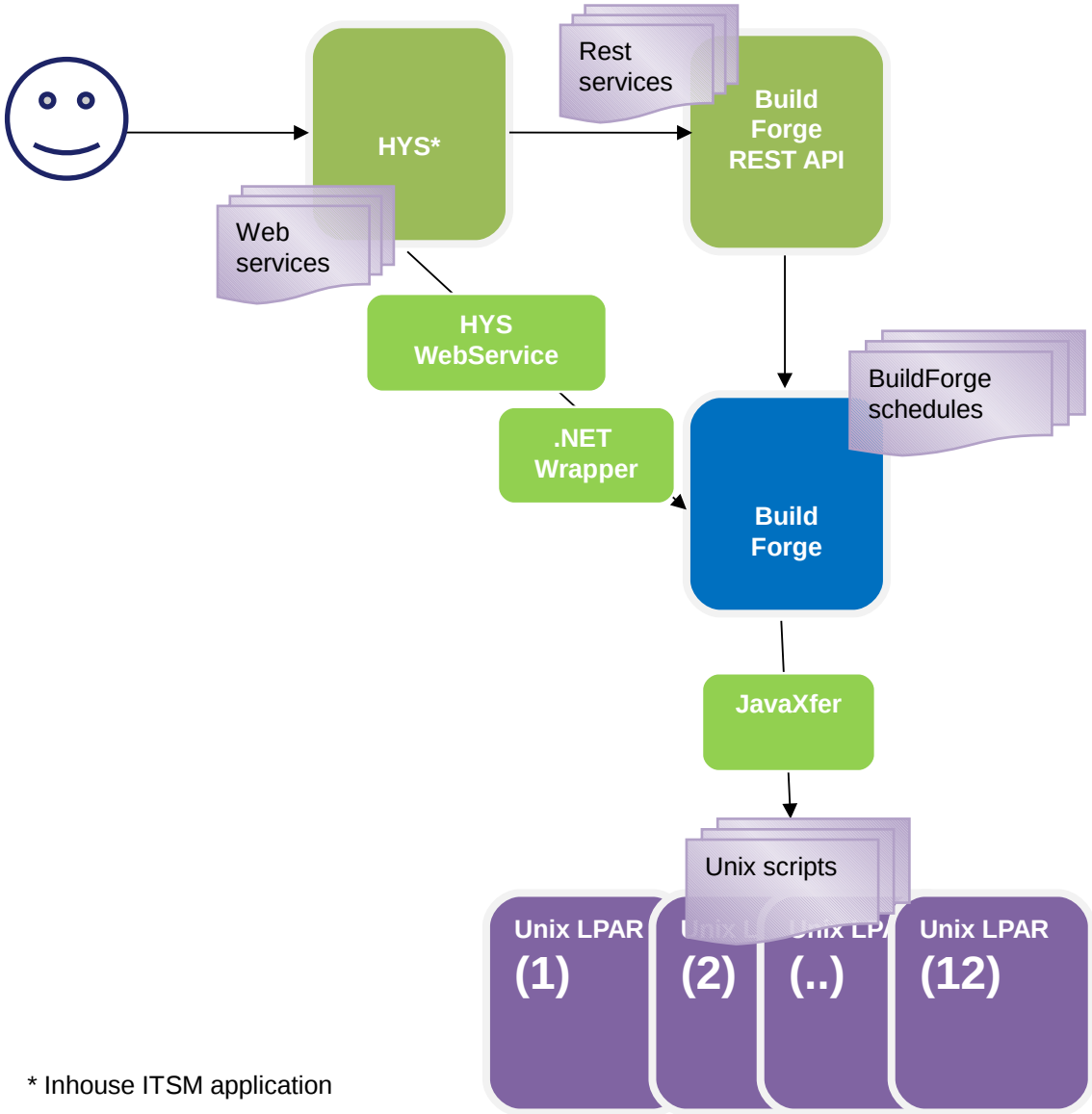


# BuildForge in GT at a glance



- **Used as a deployment tool**
  - Used as a middleware deployment tool
    - User licence is for only administrators of the tools
- **Applicable to critical java applications running on WAS**
  - Internet branch application
  - Social media application
- **Integrated with process management system**
  - Change Management
  - Configuration Management
  - Release Management
- **Integrated with build process which is done another tool (Hudson)**
- **Frequent process**
- **High volume transferred to more than 10 servers**

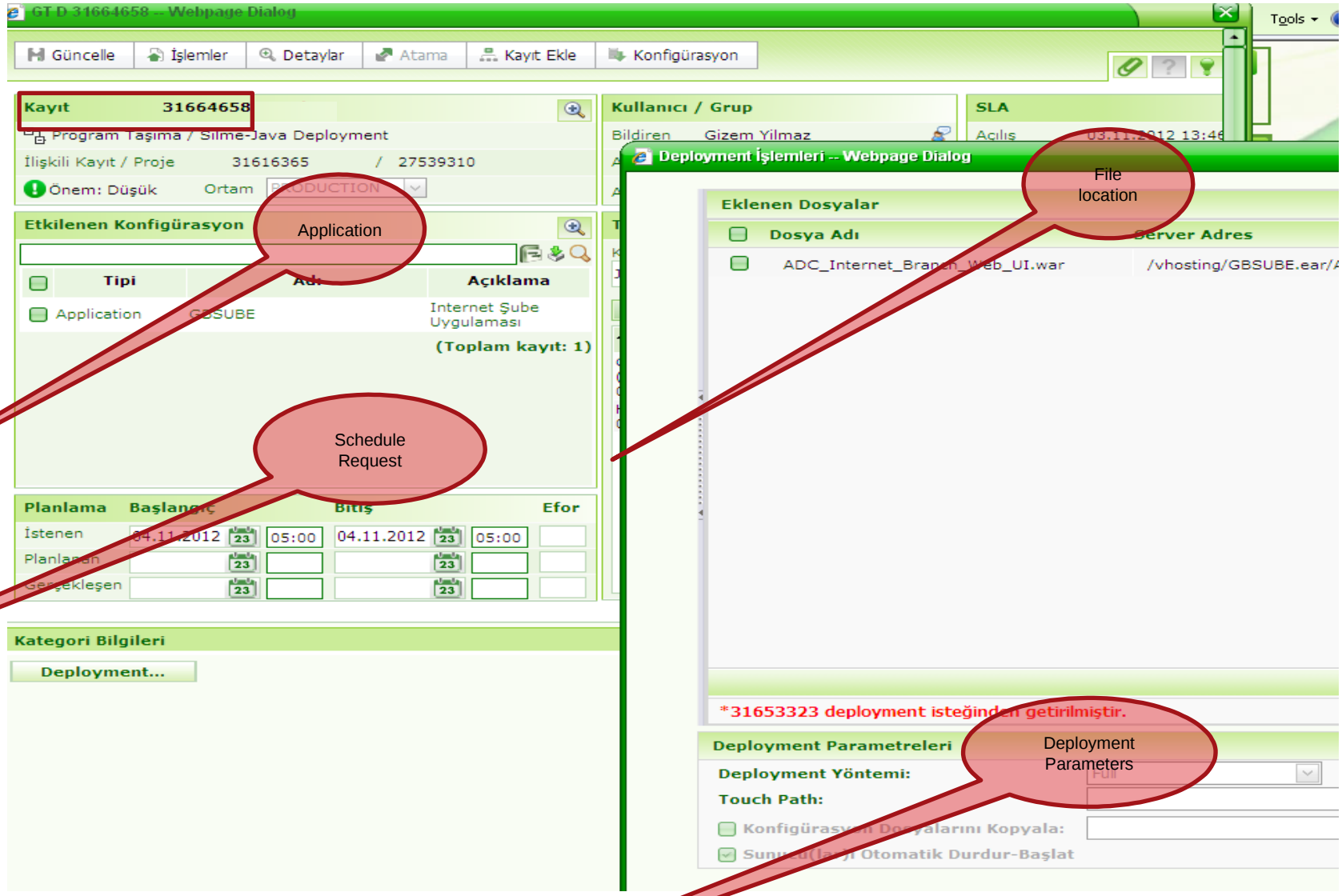
# Solution



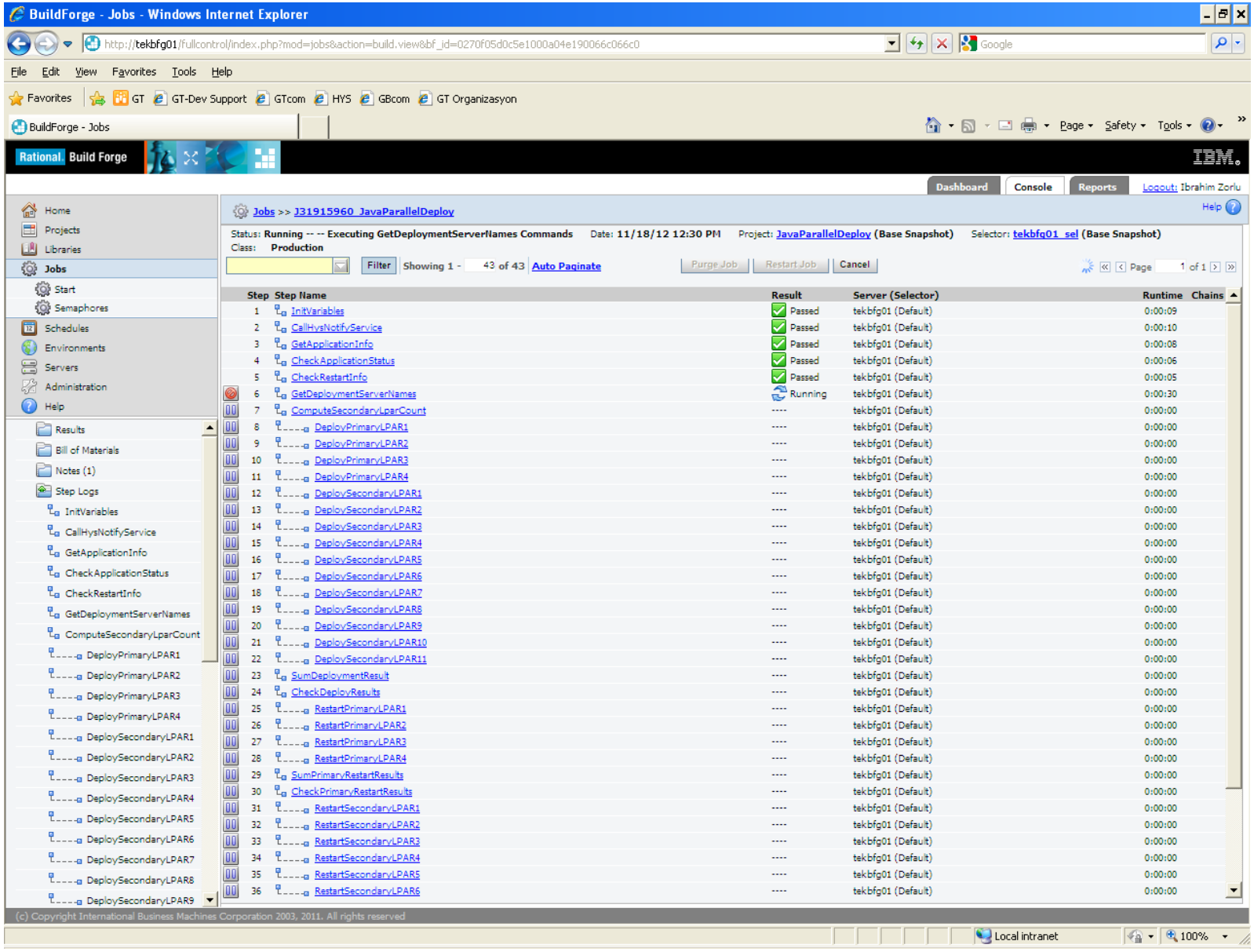

* Inhouse ITSM application

- Benefits
  - Seamless
  - Server count is scalable
  - Traceable
  - Logging
  - Restartable
- Figures
  - 120 MB * 12 servers
  - Annual count 350
  - End-to-end process duration 46 minutes instead of 150 min
- Integrations
  - CMDB
  - HYS Process
  - GT Deployment API

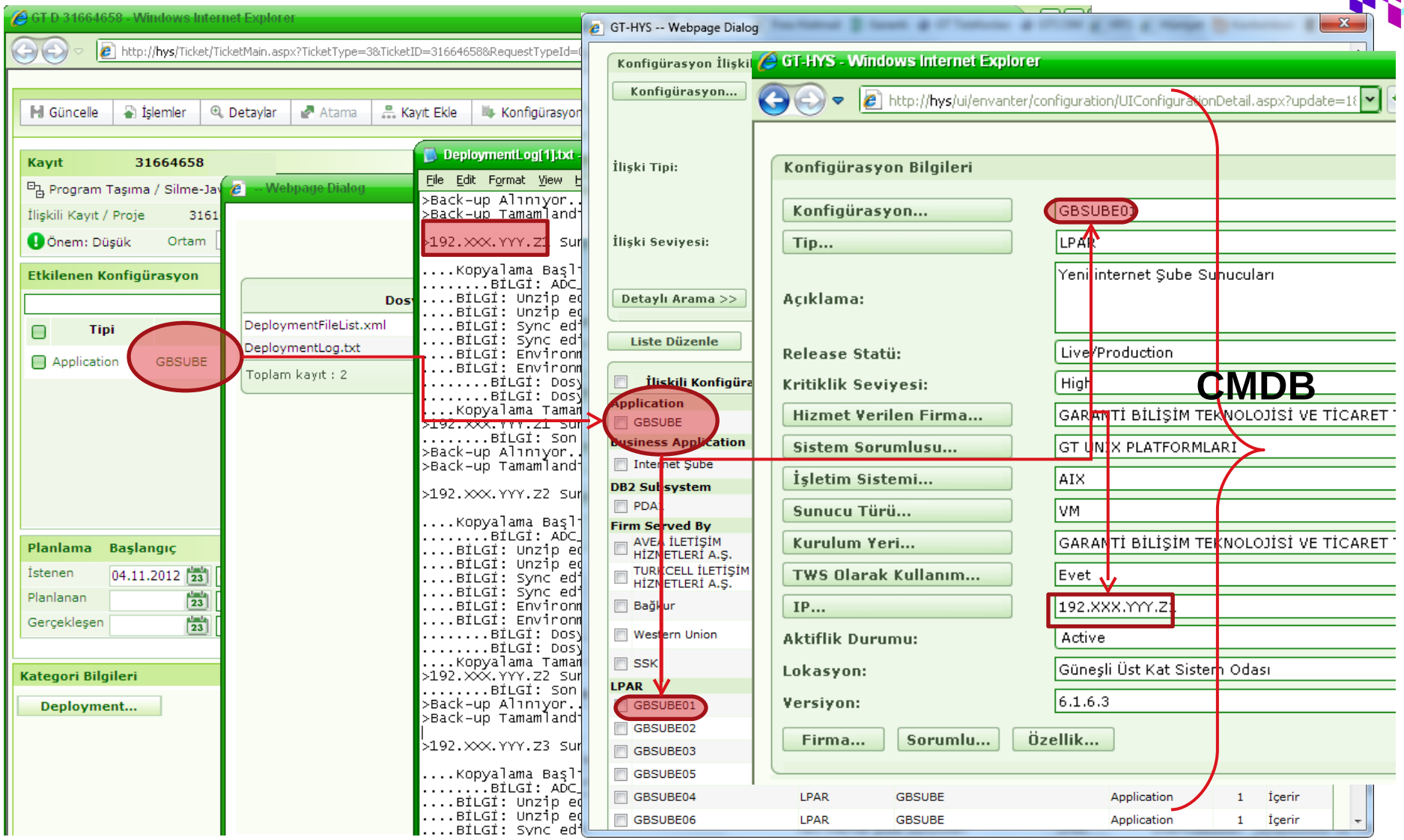
# Flow - Request from HYS



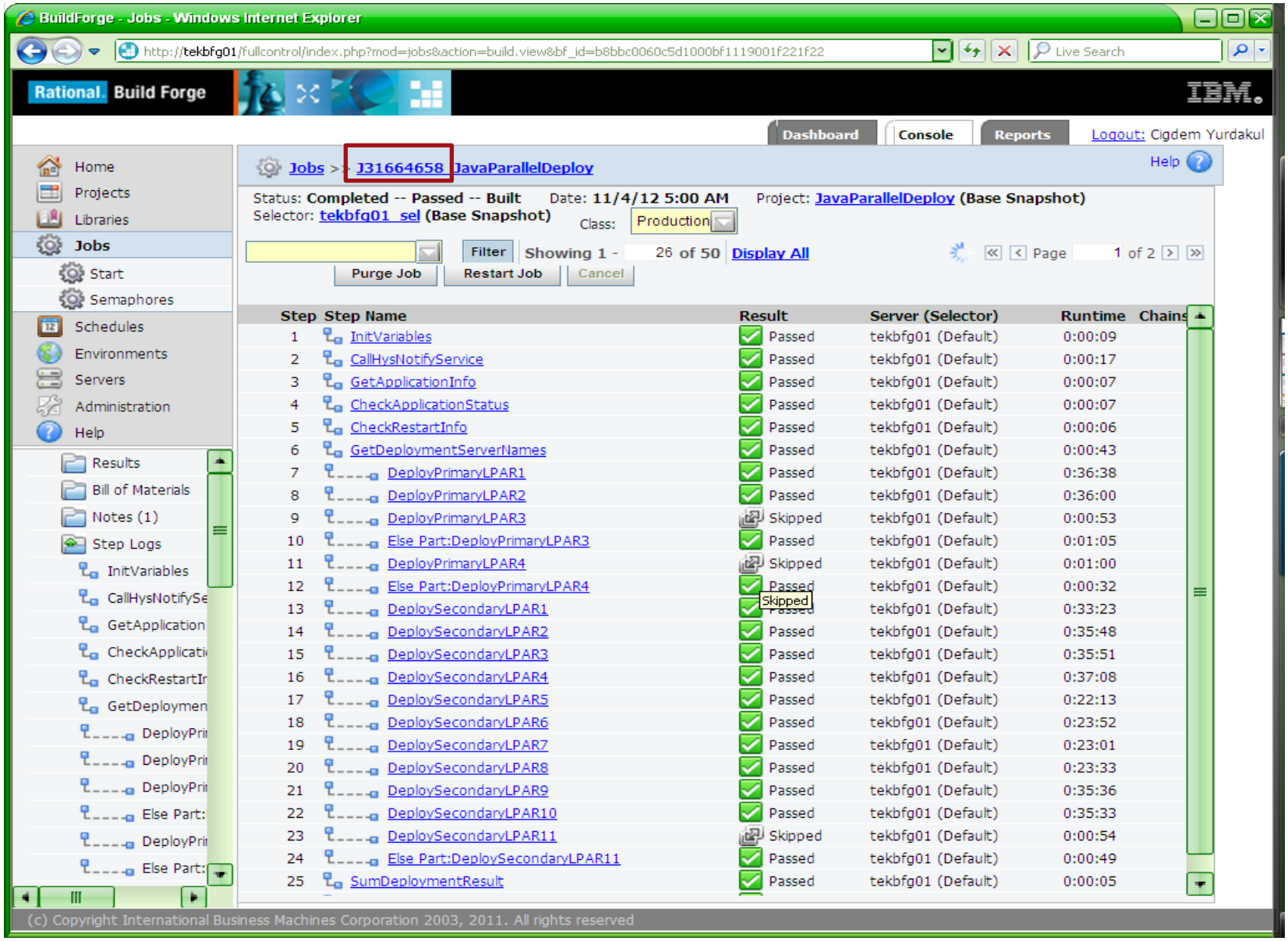
# Flow – Execution at Build Forge



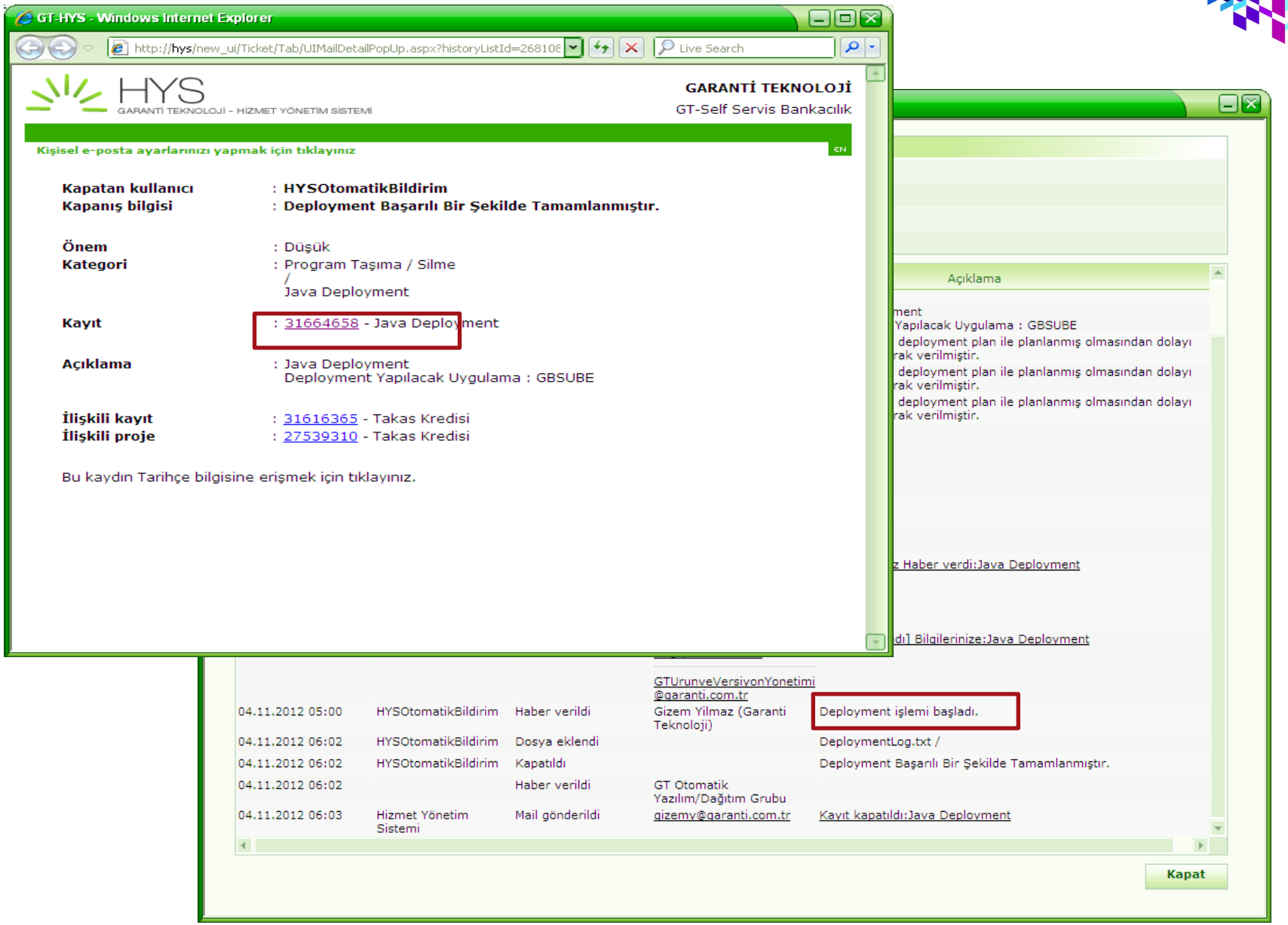
# Flow – Execution



# Flow – Execution at Build Forge



# Flow – Notification



# Questions?

# Back up slides

# Next Steps

- **AddTarget Platforms**
  - Mainframe
  - Windows
- **Orchestration**