

AUTOSYS

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The best definition of AutoSys is

"AutoSys Workload Automation is a multi-platform automated job control system

that provides the capability of scheduling, monitoring, and reporting of AutoSys jobs for enterprise applications."

• The jobs can reside on an Autosys configured machine attached to a network





- A single action performed on a validated machine
- Autosys-jobs can be defined using GUI or JIL
- Any single command, executable script or NT batch file. It includes a set of qualifying attributes, conditions specifying when and where a AutoSys-job should be run.



1. Using Autosys GUI

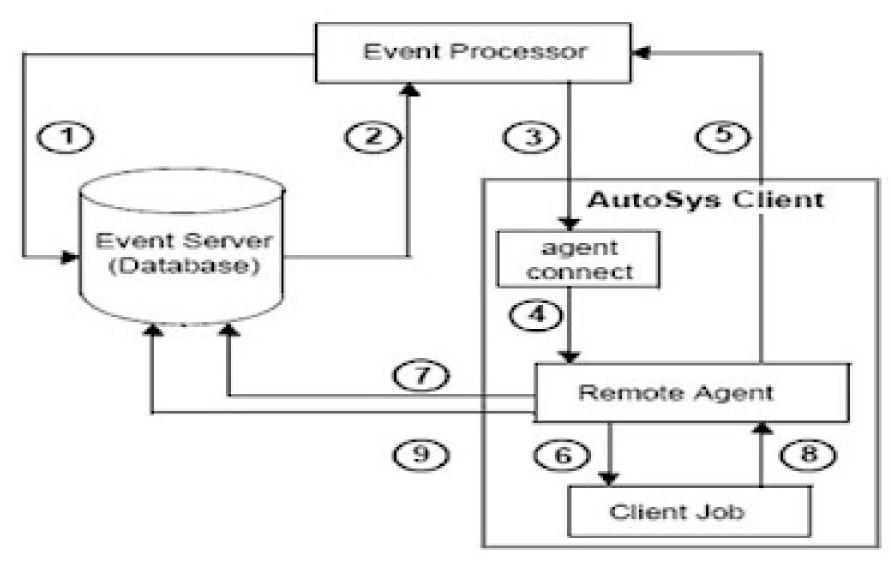
- Autosys GUI allows to set the attributes that describe when , where and how a AutoSysjob should be run.
- GUI Control Panel is used to define AutoSys-jobs Contain fields that correspond to Autosys JIL sub-commands and attributes.

2. <u>Using job Information Language(JIL)</u>

- A specification language that has its own commands to describe when , where and how a AutoSys-job should be run.
- The attributes are set b JIL sub-commands

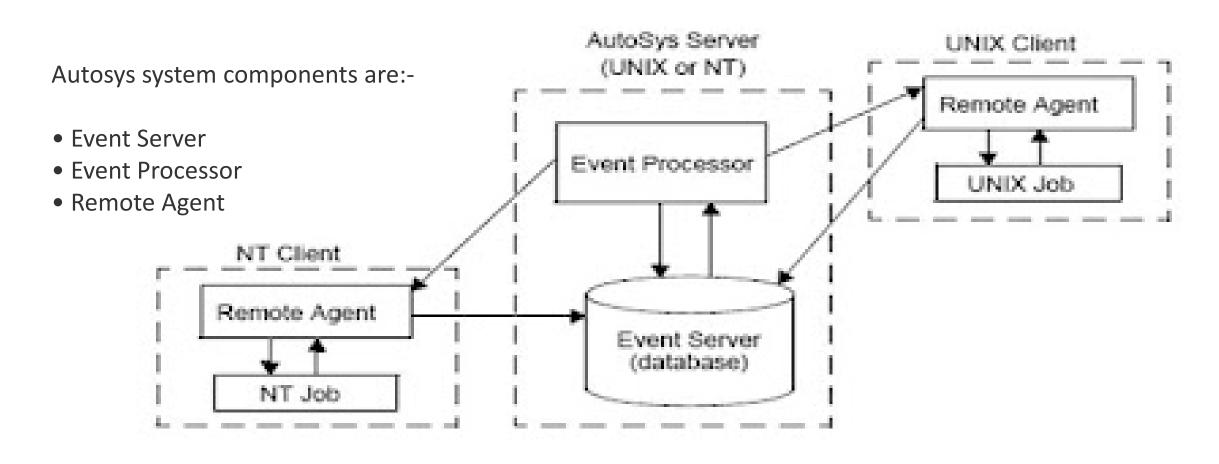
Workflow





Components





Components

Event Server (or Autosys Database)

- o Data Repository that stores Autosys system information, events and job definitions.
- o The Autosys Db is termed 'Data Server' which describes a server instance

• Event Processor

- o Interprets and processes all the events it reads from the Autosys Database
- o A program that actually runs Autosys
- o Scans the database for processing events. Checks if the events satisfy the starting conditions of the job and the determines the actions

• Remote Agent

- o Temporary process started by the event processor to perform a specific task on a remote machine
- o It starts the command specified for a given job, sends running and completion information about a task to the Event Server
- o If it is unable to transfer the information, it waits and tries until it successfully communicates with the Db

Utilities

- Autosys provides a set of commands that run essential utility programs for defining, controlling and reporting on jobs.
- For example the autorep command allows generating a variety of reports about job execution, and the sendevent commands allow manually controlling job processing.
- Additional utility programs are provided to assist in troubleshooting running monitors and browsers, and starting/stopping Autosys and its components.
- Autosys also provides database maintenance utility that runs daily by default

Alarms



- Alarms are special events that send notifications during situations requiring attention
- Addresses incidents that require manual intervention
- For example, a set of jobs could be dependent on the arrival of a file and if the file is long overdue. It is important that someone investigate the situation, make a decision and resolve the problem.
- Aspects of alarms include but is not limited to:-
- o Alarms are informational only. Any action to be taken due to a problem is initiated by a separate action event.
- o Alarms are system messages about a detected problem
- o Alarms are sent through the system as an event

Events



- Since Autosys in Event-driven, it requires an event to occur on which the job depends, for a job to be activated by the Event Processor.
- The sources of these events can be:-
- o Jobs changing status such as starting, finishing
- o Internal Autosys verification Agents such as detected errors.
- o Events send with the SENDEVENT command
- While processing an event , the Event processor scans the database for jobs that are dependent on that event
- If the event satisfies another job's starting condition, that job is run automatically and completion of that job can cause another job to be started, thereby making the jobs progress in a controlled sequence.



Autosys architecture has two types of machines:-

- Server Machine:
- o The machine on which the Event Processor and Event Server reside
- Client Machine:
- o The machine on which the Remote Agent resides and where Autosys jobs are run.

What is an Autosys Instance?

- A version of Autosys software running as an Autosys server, with one or more clients, on single machine or on multiple machines
- An instance uses its own Event Server and Event Processor by operating independently of all other Autosys instances
- Multiple instances can run and schedule jobs on the same machine without affecting other instances on that machine.





- https://www.broadcom.com/products/software/automation/autosys#:~:text=AutoSys%20Workload%20Automation%20enhances%20visibility,consistent%20and%20reliable%20service%20delivery.
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