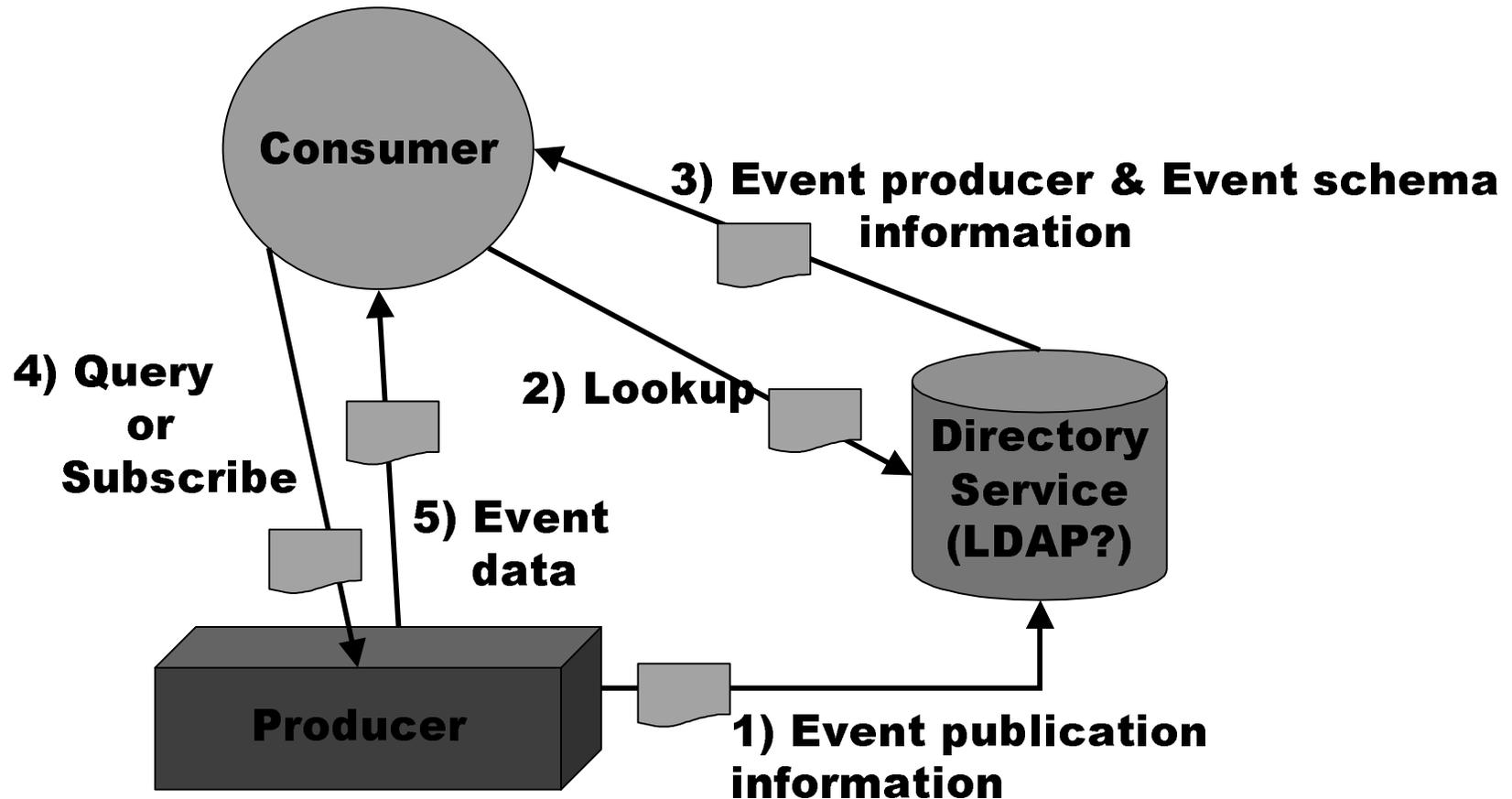


Grid Monitoring Architecture

- Minimal specification to support required functionality and allow interoperability
 - Scalable across wide-area network
 - Work with a wide range of heterogeneous resources managed by different organizations
 - Minimize impact of host and network failure
- Standard terminology
- Share past experience / best practices

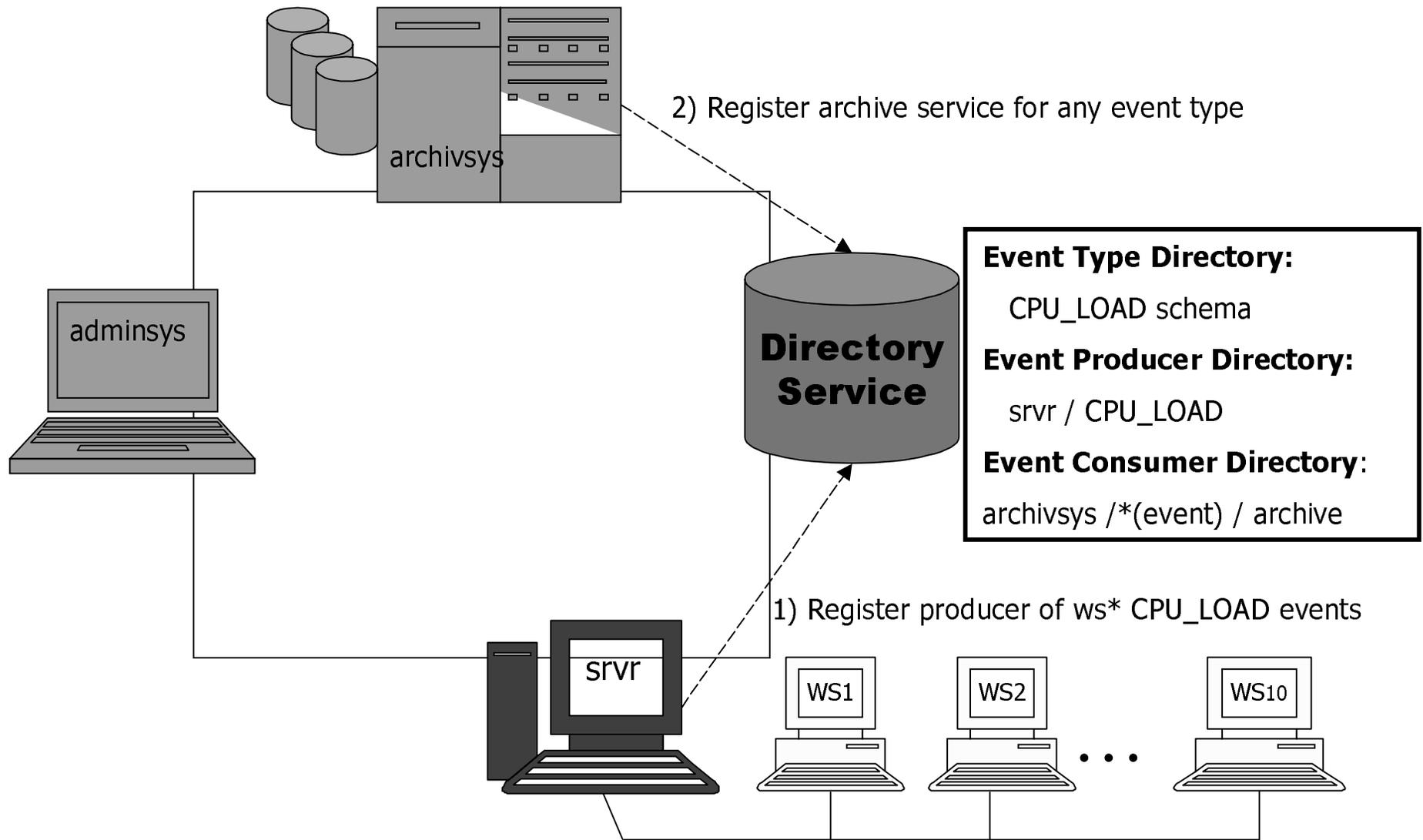
Architecture



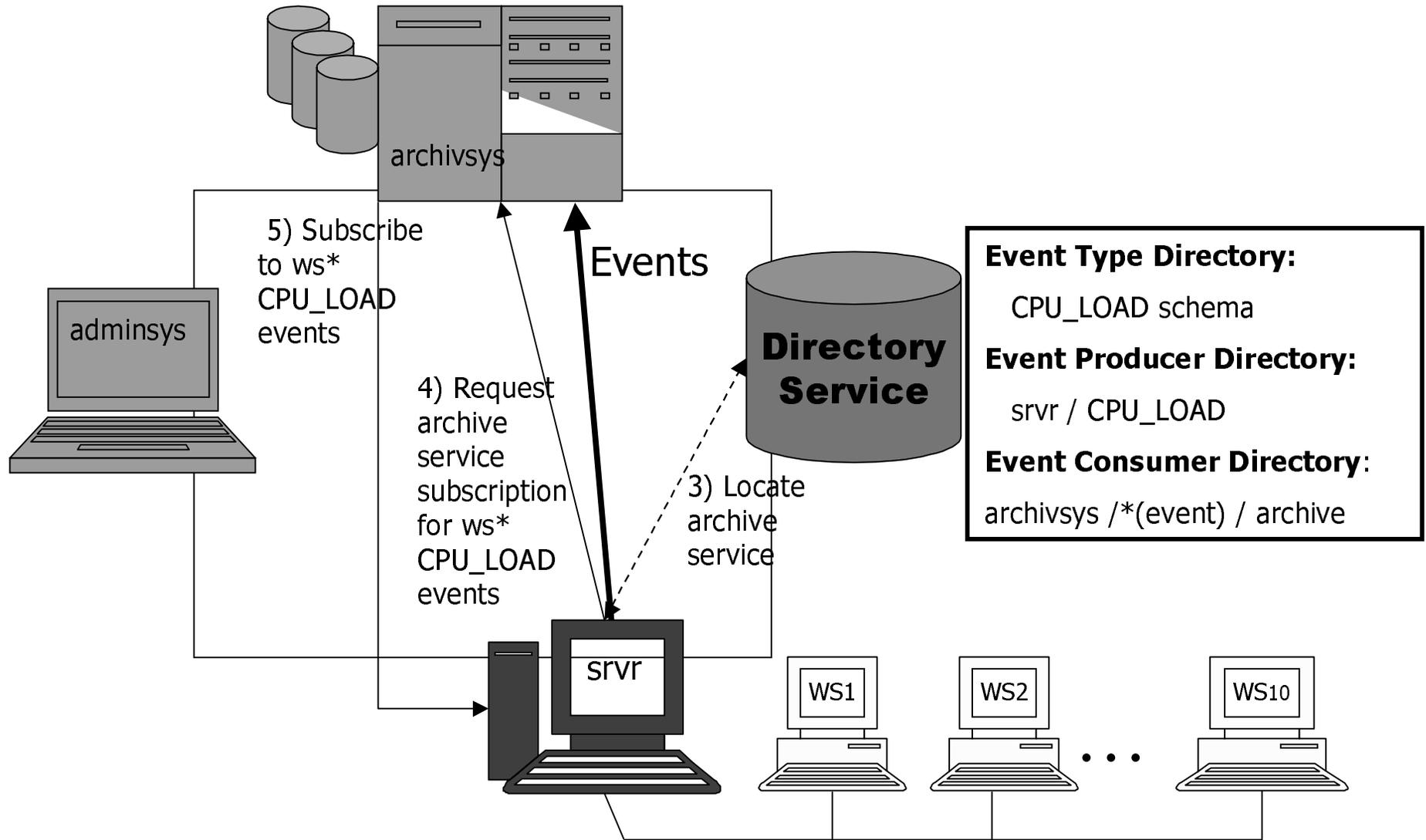
 = **API & wire protocol & data format**

Plus security!

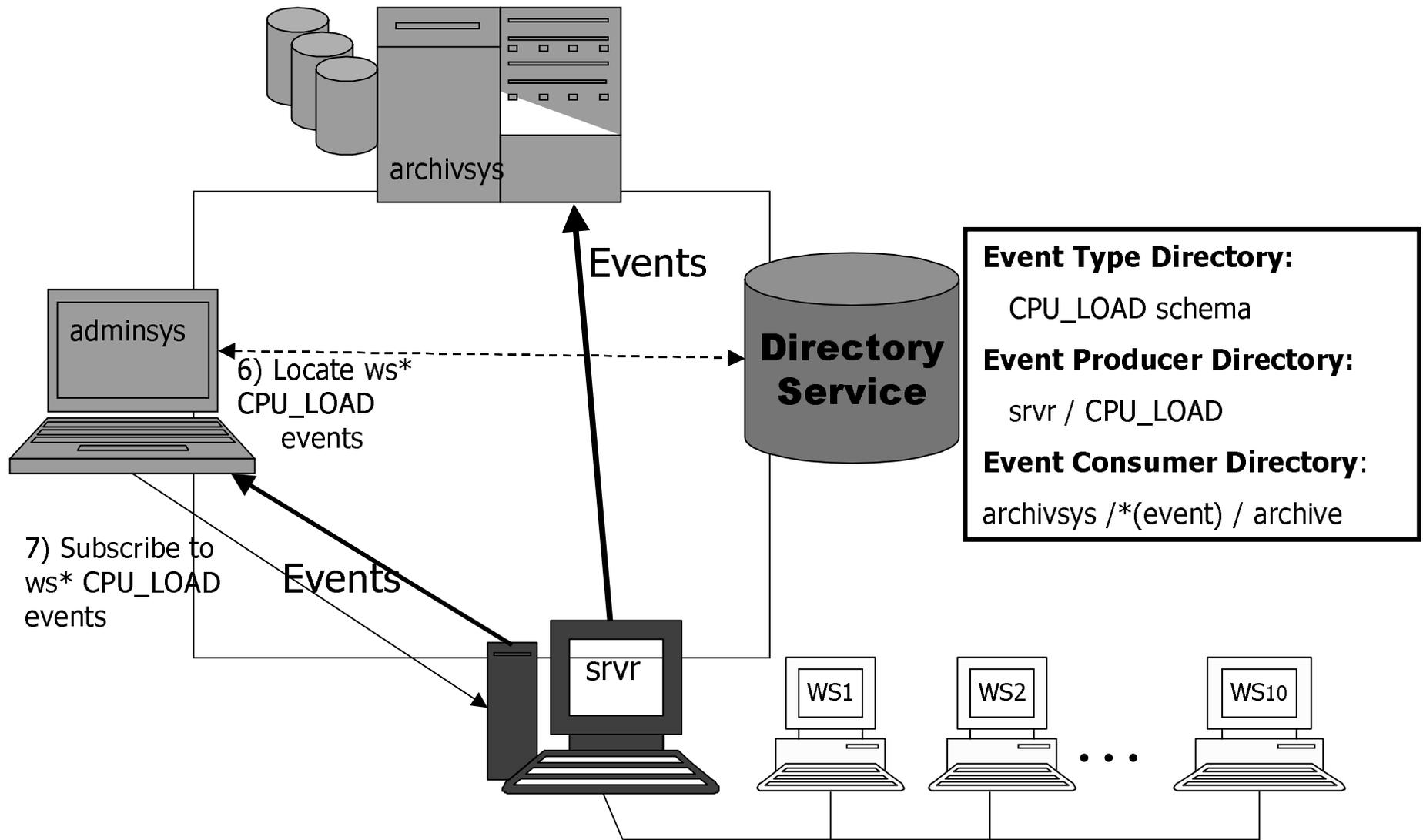
Simple Case Study



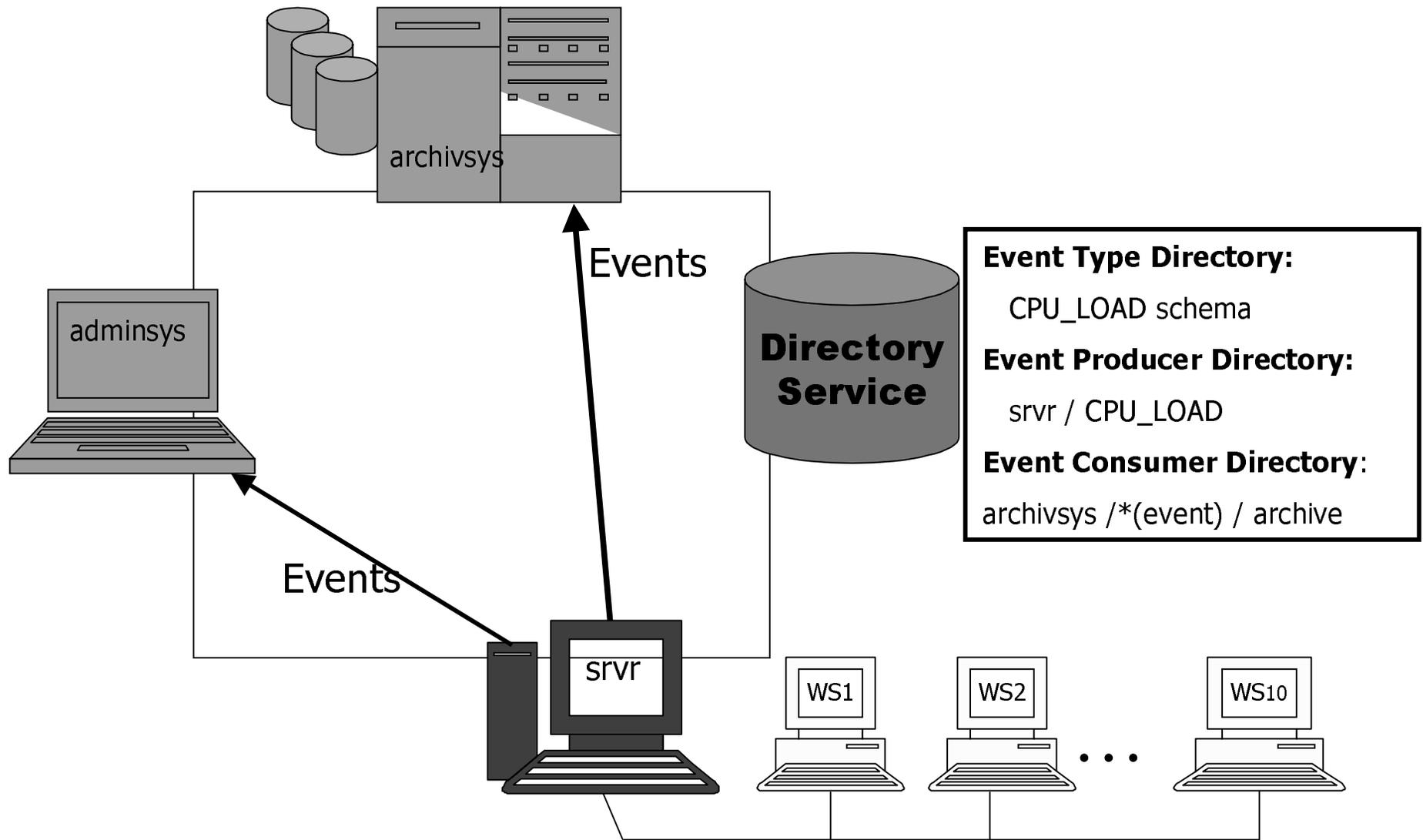
Simple Case Study



Simple Case Study



Simple Case Study



Terminology

- (Performance) Event:
 - Structure containing one or more items of data that relate to one or more resources.
- Event Type:
 - Unique identifier
CPU_LOAD
- Event Schema:
 - Description of structure
cpuload_measurement: double
hostname: string
timestamp: ASCII timestamp
producer: URL

Terminology

- **Producer**
 - Makes event data available. `srvr`
- **Consumer**
 - Receives event data. `adminsys`, `archivsys`
- **Directory Service**
 - **Event Type Directory:** contains event schema.
`CPU_LOAD`
 - **Event Producer Directory:** contains information about producers and the event types they provide.
`srvr:CPU_LOAD`
 - **Event Consumer Directory:** contains information about consumers, the event types they accept, and the services they provide. `archivsys:*:archive`