



## Consulting Services

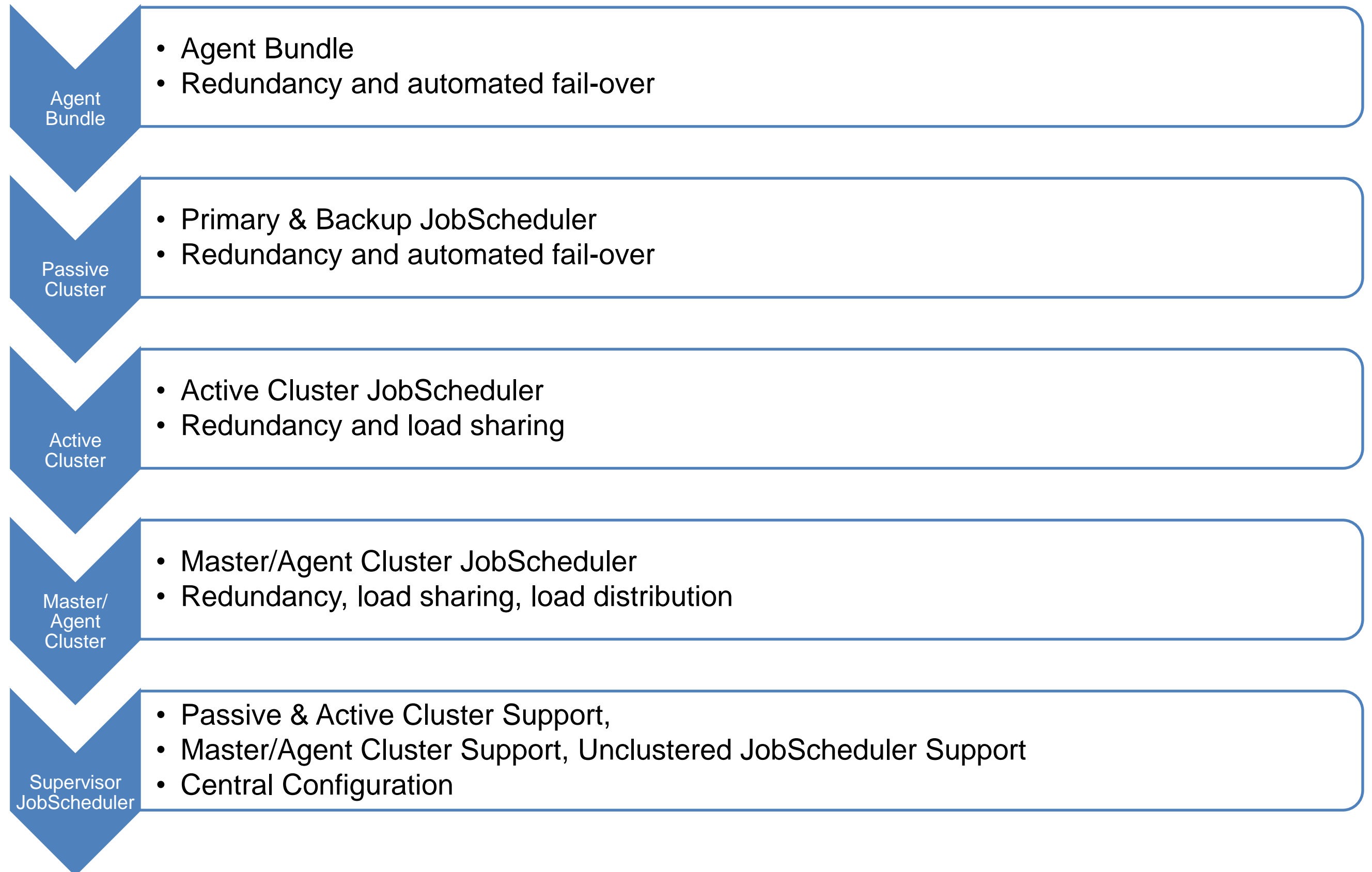
JobScheduler

Architecture Decision Template

Information for  
Consulting Parties

- **Supported Platforms**
  - Platforms: JobScheduler Master / JobScheduler Agent
- **Agent Bundle**
  - Architecture: JobScheduler Agent Bundle
- **Passive Cluster**
  - Architecture: Primary JobScheduler
  - Architecture: Backup JobScheduler
- **Active Cluster**
  - Architecture: Active Cluster JobScheduler
  - Architecture: Active Cluster JobScheduler with failed instance
- **Master / Agent Cluster**
  - Architecture: Master/Agent Passive Cluster JobScheduler
  - Architecture: Master/Agent Active Cluster JobScheduler
- **Supervisor JobScheduler**
  - Architecture: Supervisor for Passive Cluster
  - Architecture: Supervisor for Active Cluster
  - Architecture: Supervisor for Master/Agent Cluster
  - Architecture: Supervisor for Unclustered JobScheduler

## Architecture Decision Template

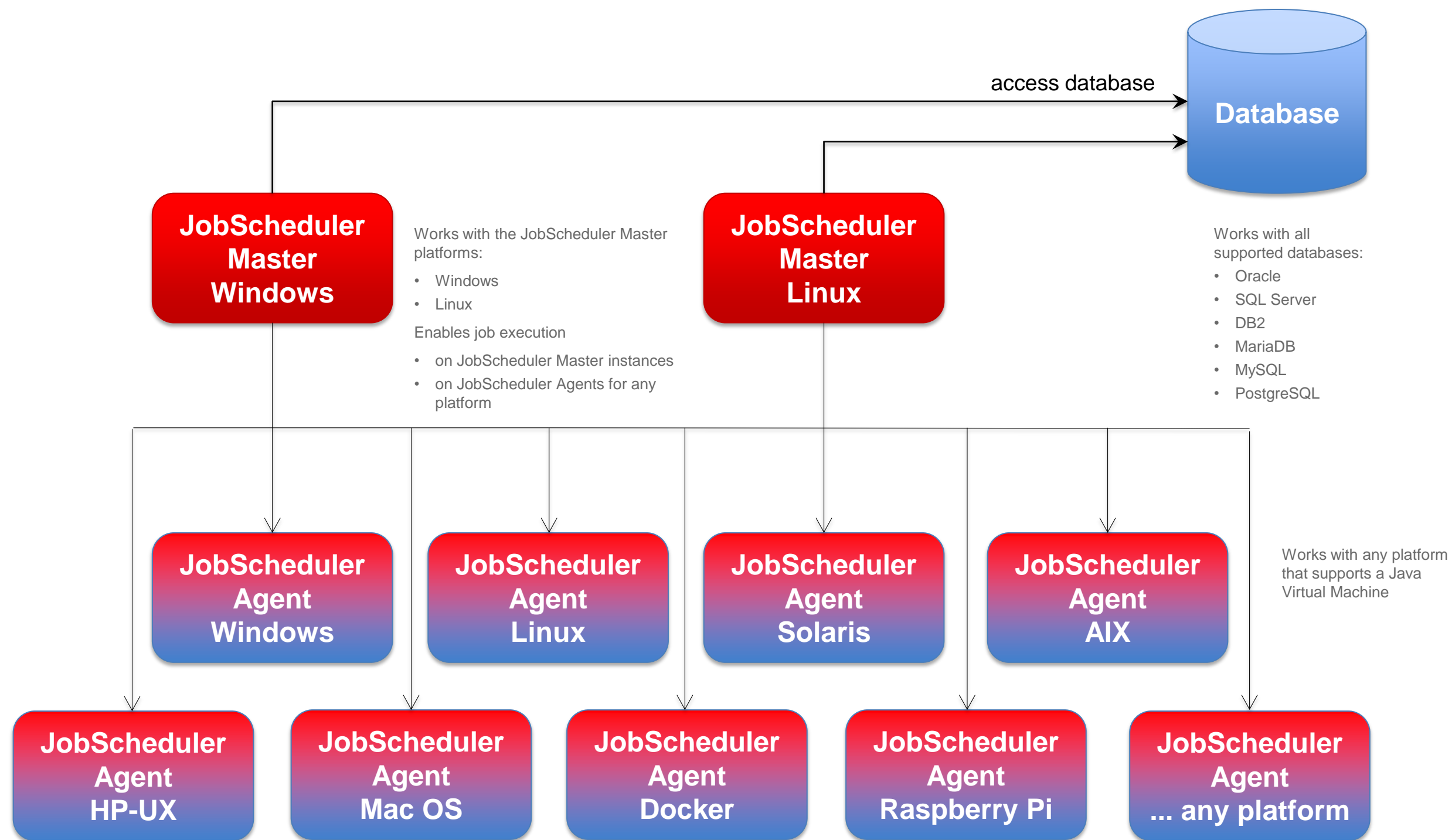


### Master/Agent Platforms

- JobScheduler Master uses a database that is located on any platform
- JobScheduler Master is available for Windows and Linux
- JobScheduler Agents are available for any platform that supports a Java Virtual Machine

### Job Execution

- Jobs are executed locally on the JobScheduler Master.
- Jobs are executed on a remote JobScheduler Master instance
- Jobs are executed on any JobScheduler Agent.
- JobScheduler Agents enable remote file watching, i.e. they trigger job starts in the JobScheduler Master for incoming files

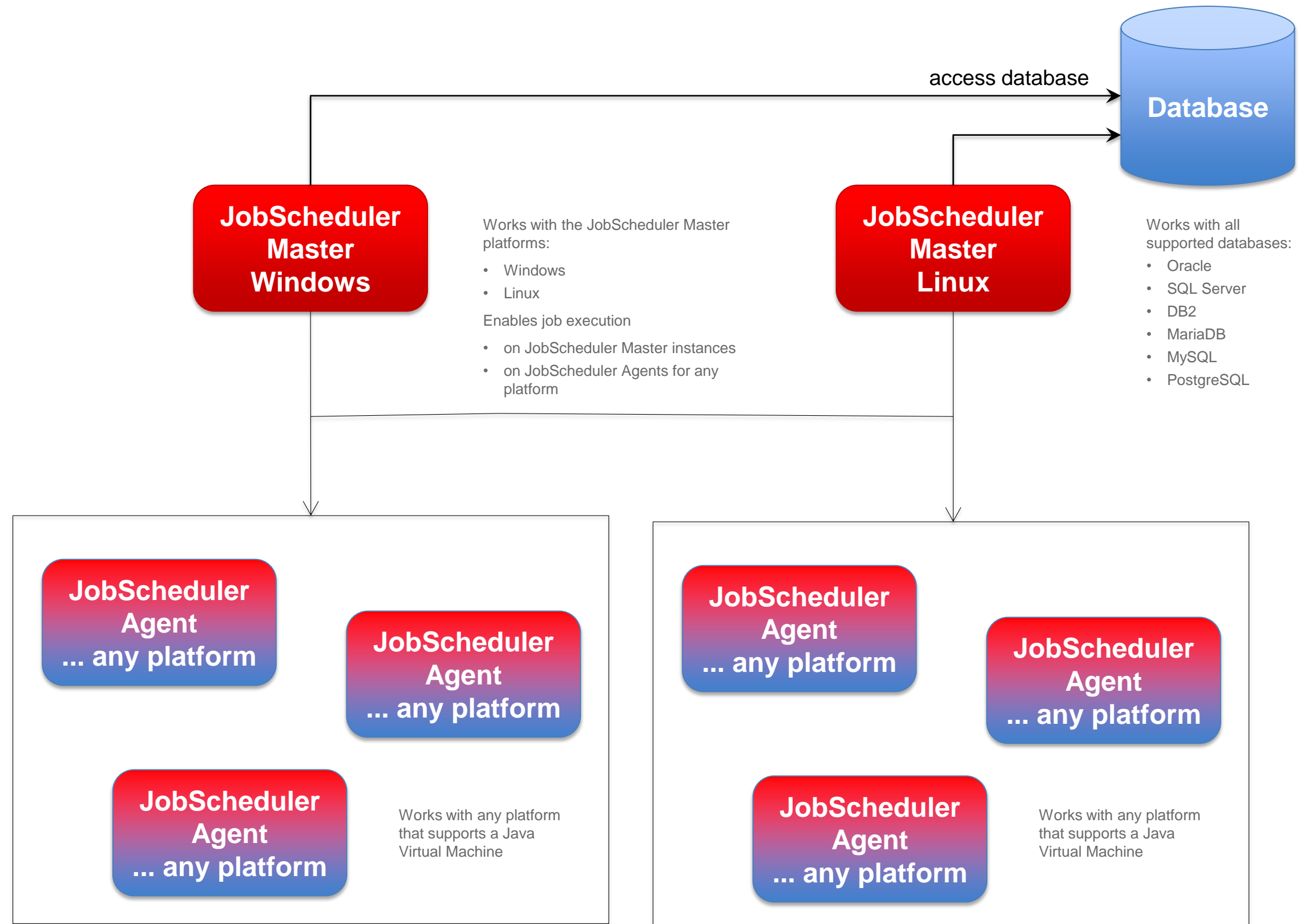


**Master/Agent Platforms**

- JobScheduler Master uses a database that is located on any platform
- JobScheduler Master is available for Windows and Linux
- JobScheduler Agents are available for any platform that supports a Java Virtual Machine

**Agent Bundles**

- Agents can be configured to work in a bundle.
- JobScheduler Master selects the first available Agent from a bundle for job execution.
- Should an Agent from a bundle not be available then the next available Agent is selected.



**Passive Cluster**

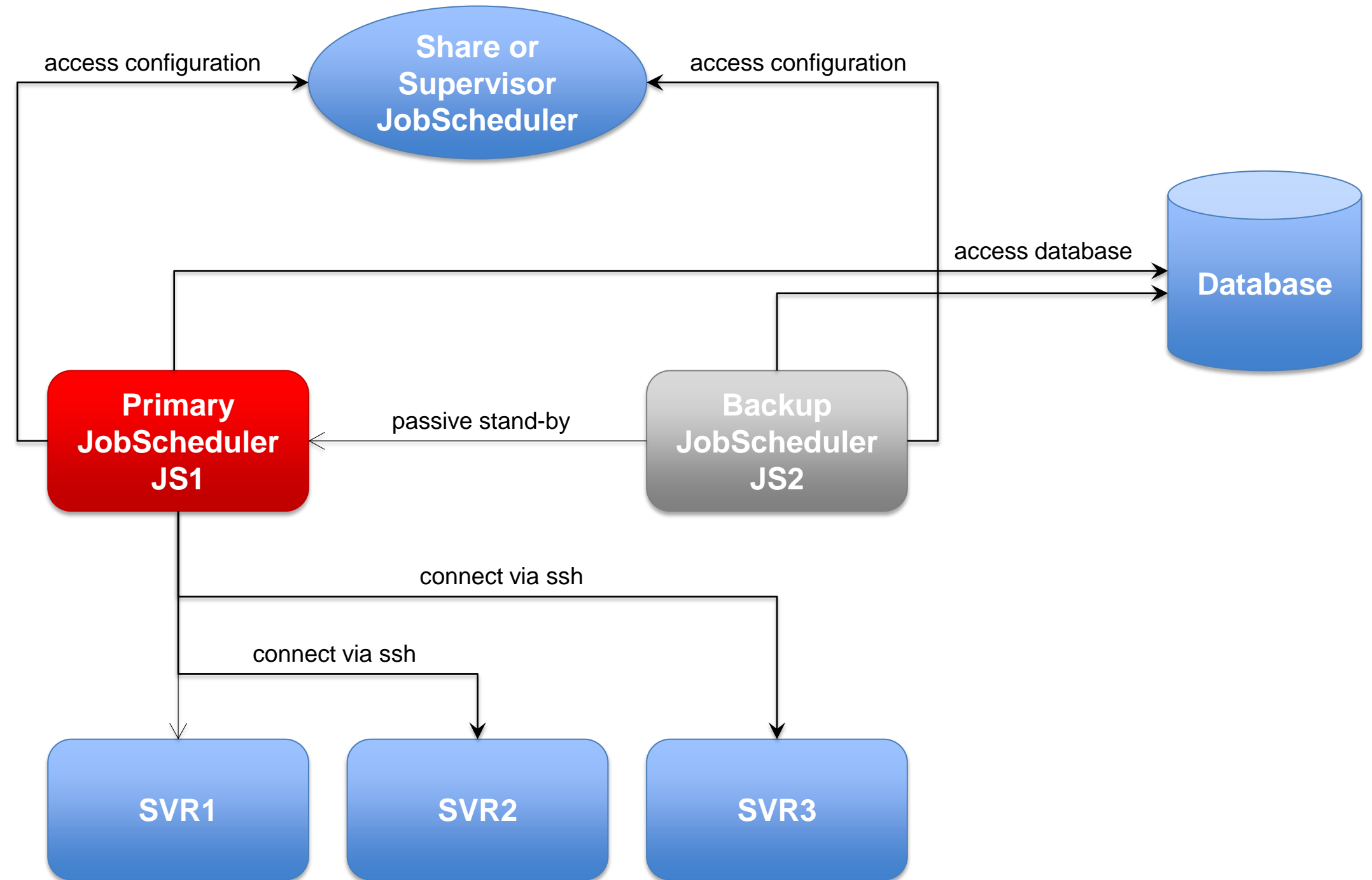
- Primary and Backup JobScheduler use the same database
- Primary JobScheduler is monitored by its failover instance
- Failover instance operates in stand-by mode
- All connections to servers use the SSH protocol

**SSH Connections***JITL Jobs*

- Requires a JVM per task
- Memory resources

*SSH Client*

- No pre-/post-processing
- No substitution of parameters in script files
- Script files have to be provided on the target system



**Passive Cluster**

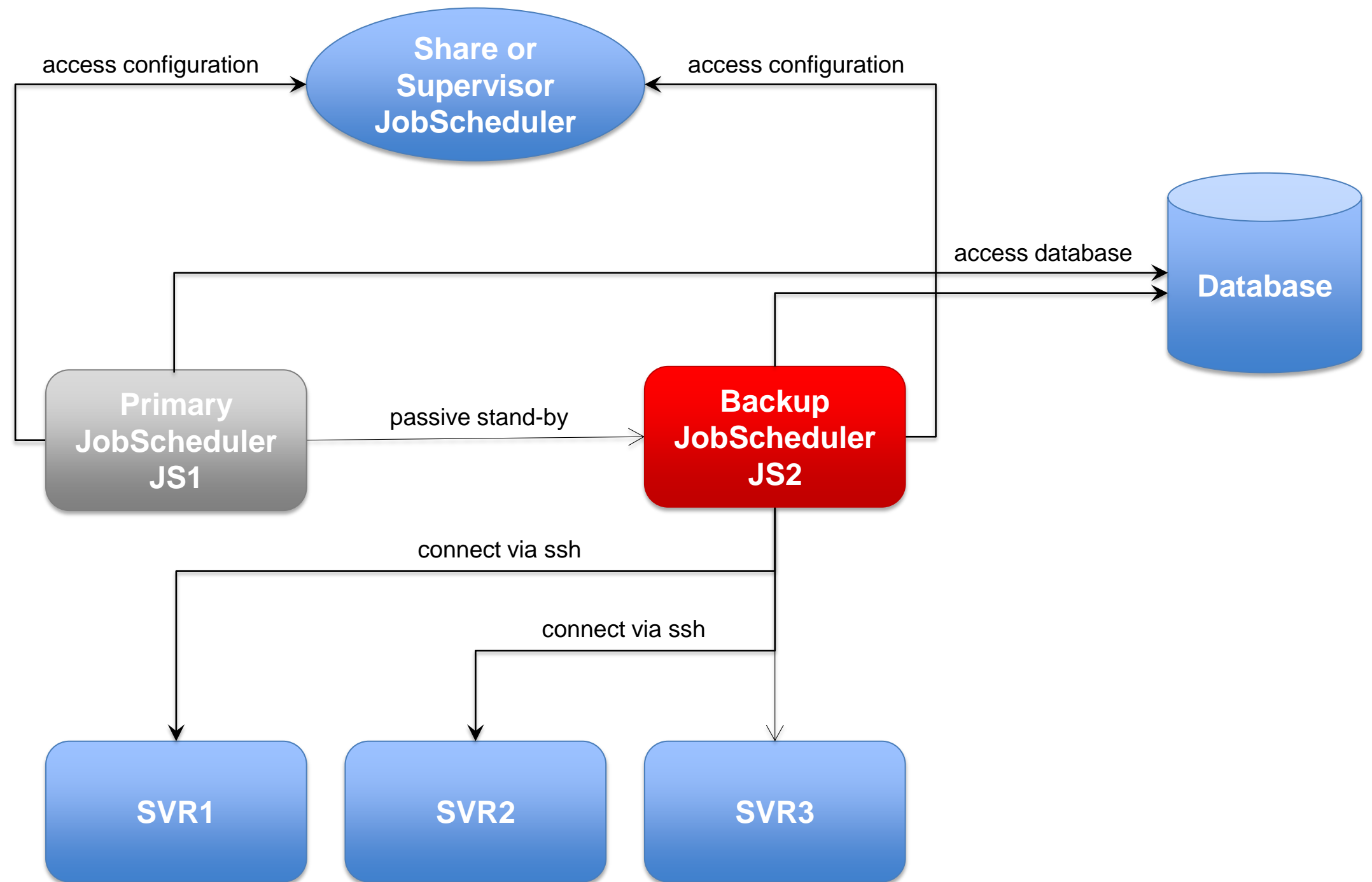
- Primary and Backup JobScheduler use the same database
- Backup JobScheduler is active after failure of Primary instance
- Primary instance operates in stand-by mode
- All connections to servers use the SSH protocol

**SSH Connections***JITL Jobs*

- Requires a JVM per task
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*SSH Client*

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**Active Cluster**

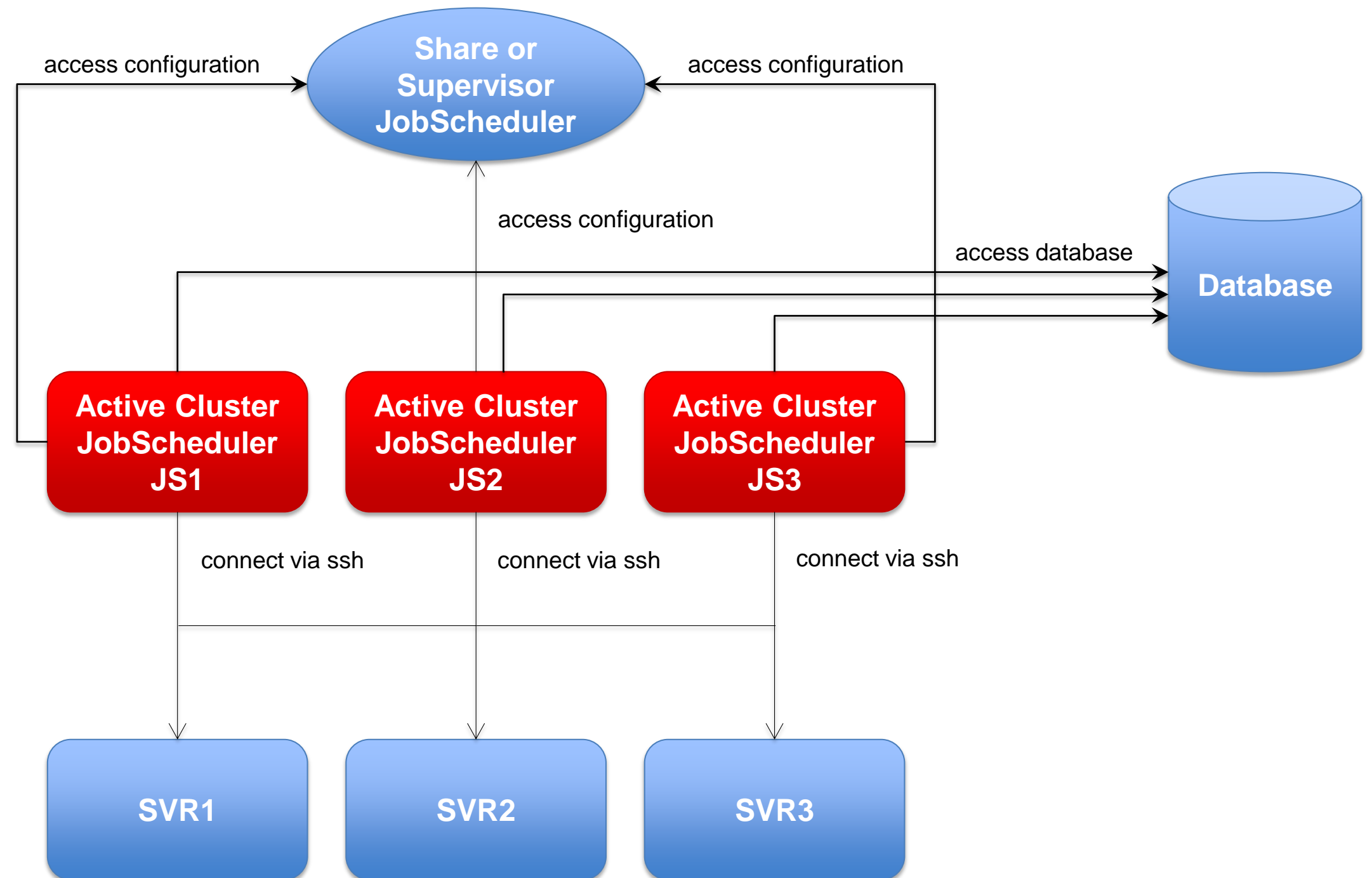
- Cluster JobSchedulers use the same database
- Cluster JobSchedulers share the workload of jobs
- All Instances operate in active mode
- All connections to servers use the ssh protocol

**SSH Connections***JITL Jobs*

- Requires a JVM per task
- Memory resouces

*SSH Client*

- No pre-/post-processing
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**Active Cluster**

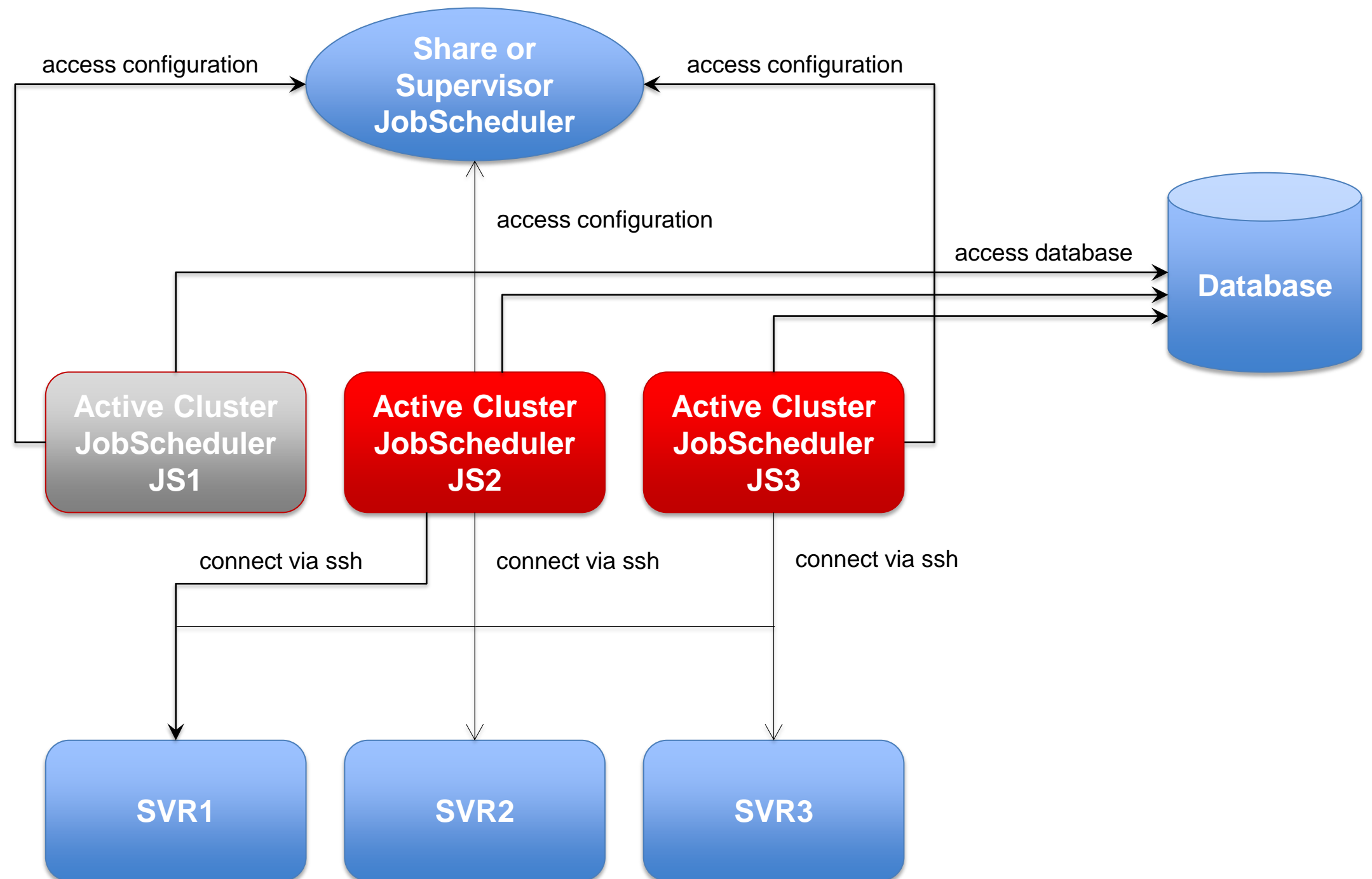
- Cluster JobSchedulers use the same database
- Cluster JobSchedulers share the workload of jobs
- All Instances operate in active mode
- All connections to servers use the ssh protocol

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- Script files have to be provided on the target system

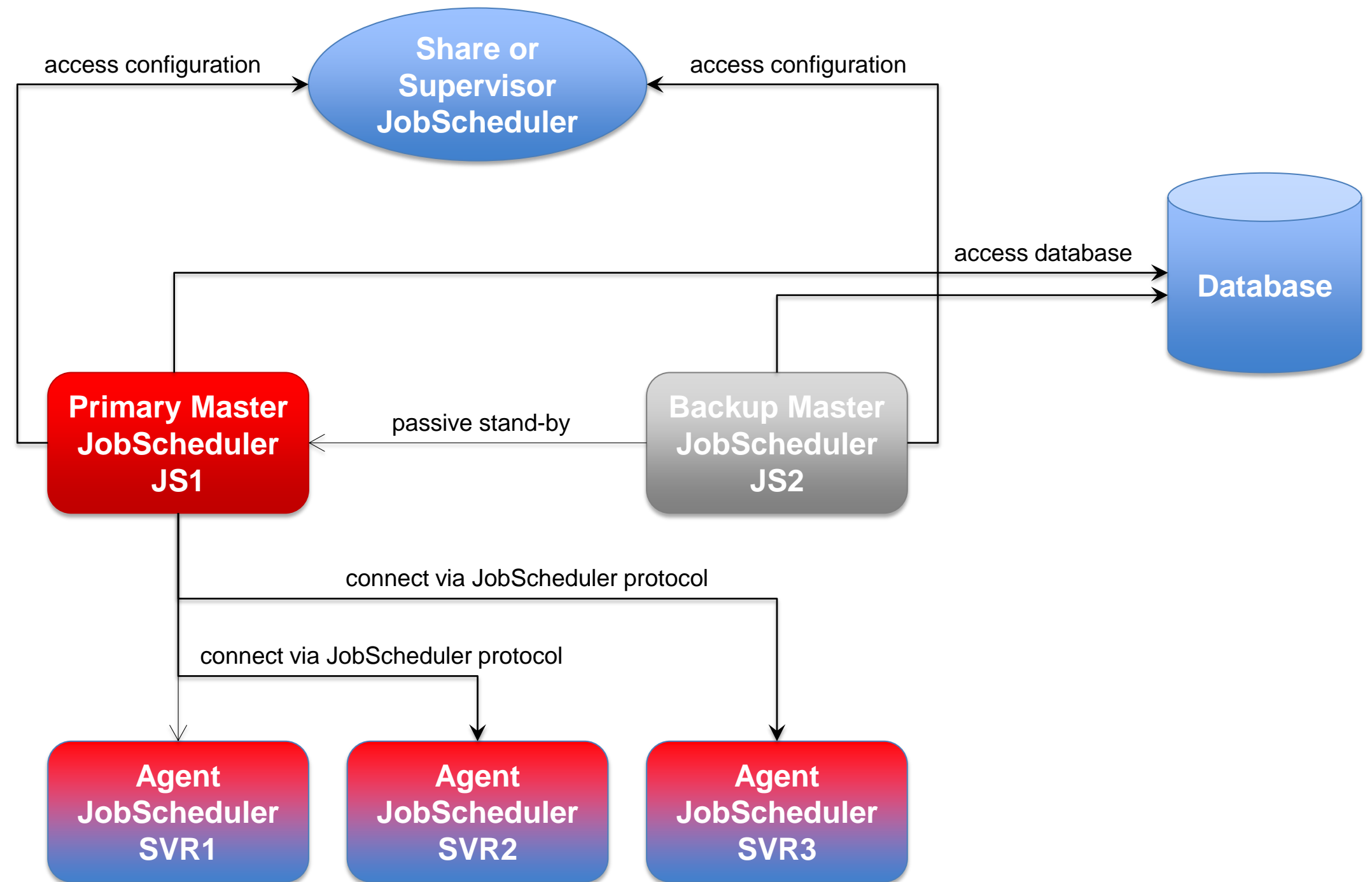


**Master/Agent Passive Cluster**

- Primary and Backup JobScheduler use the same database
- Primary JobScheduler is monitored by its Backup instance
- Backup instance operates in stand-by mode
- All Cluster instances use Agents to execute jobs on remote servers
- Connections to servers use the internal protocol

**Job Execution**

- Jobs are executed locally per JobScheduler Agent.
- No central resources required for job execution
- Pre-/post-processing
- Use of JITL Jobs or script files with parameter substitution

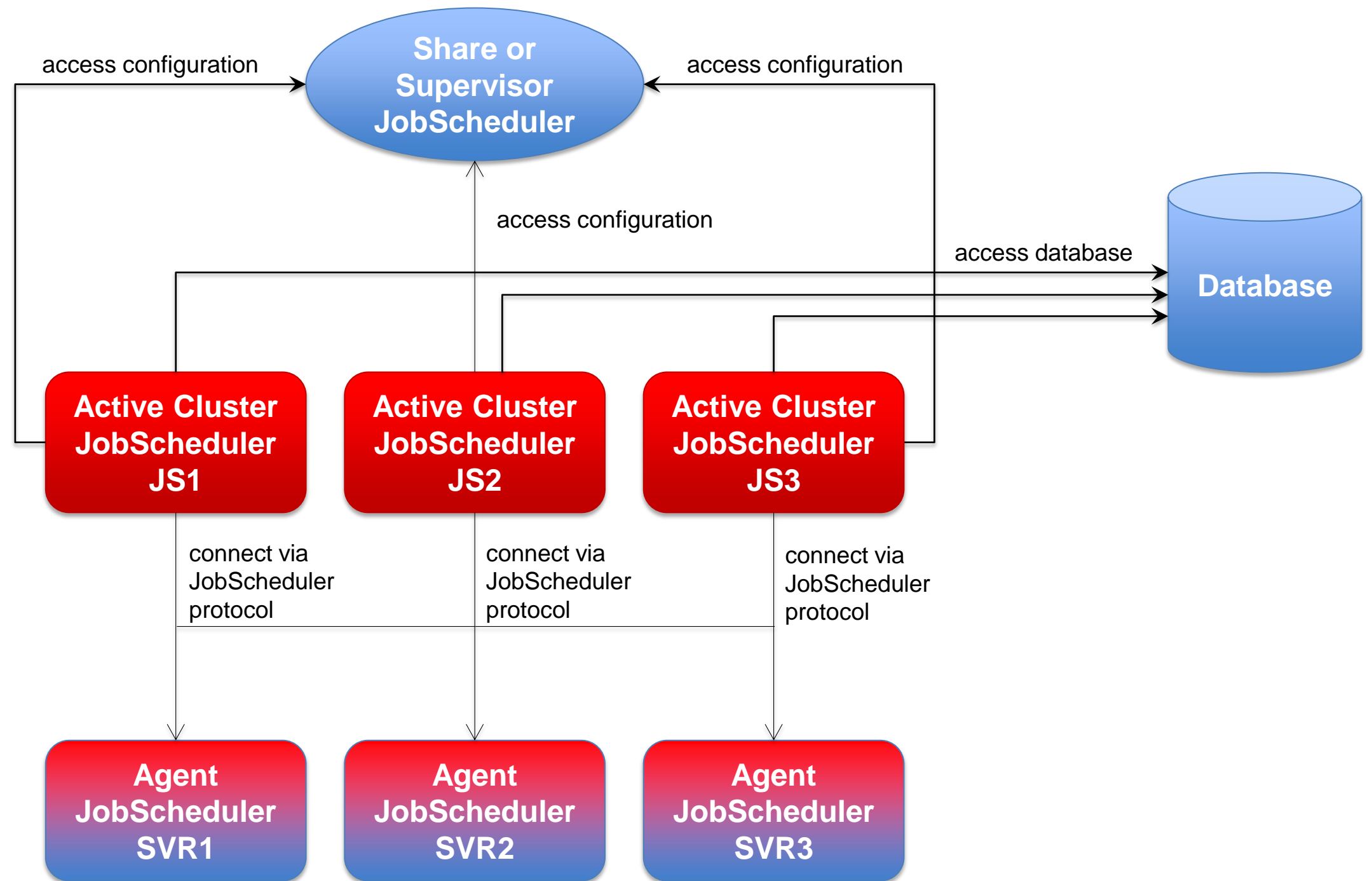


**Master/Agent Active Cluster**

- Cluster JobSchedulers use the same database
- Cluster JobSchedulers share the workload of jobs
- All Instances operate in active mode
- All Cluster instances use Agents to execute jobs on remote servers

**Job Execution**

- Jobs are executed locally per JobScheduler Agent.
- No central resources required for job execution
- Pre-/post-processing
- Use of JITL Jobs or script files with parameter substitution

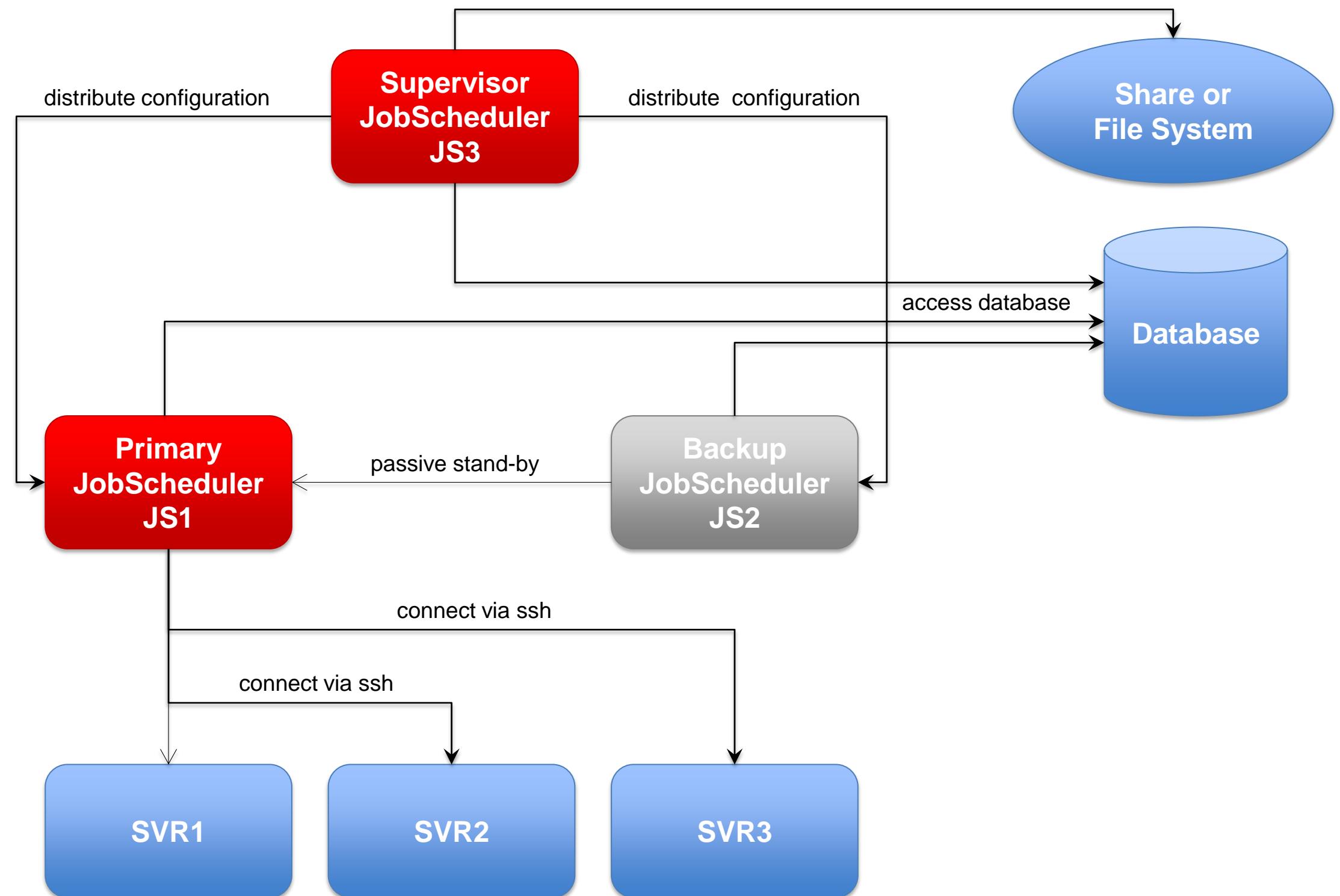


**Passive Cluster**

- Primary and Backup JobScheduler use the same database
- Primary JobScheduler is monitored by its Backup instance
- Backup instance operates in stand-by mode
- All connections to servers use the ssh protocol

**Supervisor JobScheduler**

- Distribute configuration to Primary and Backup JobScheduler instances

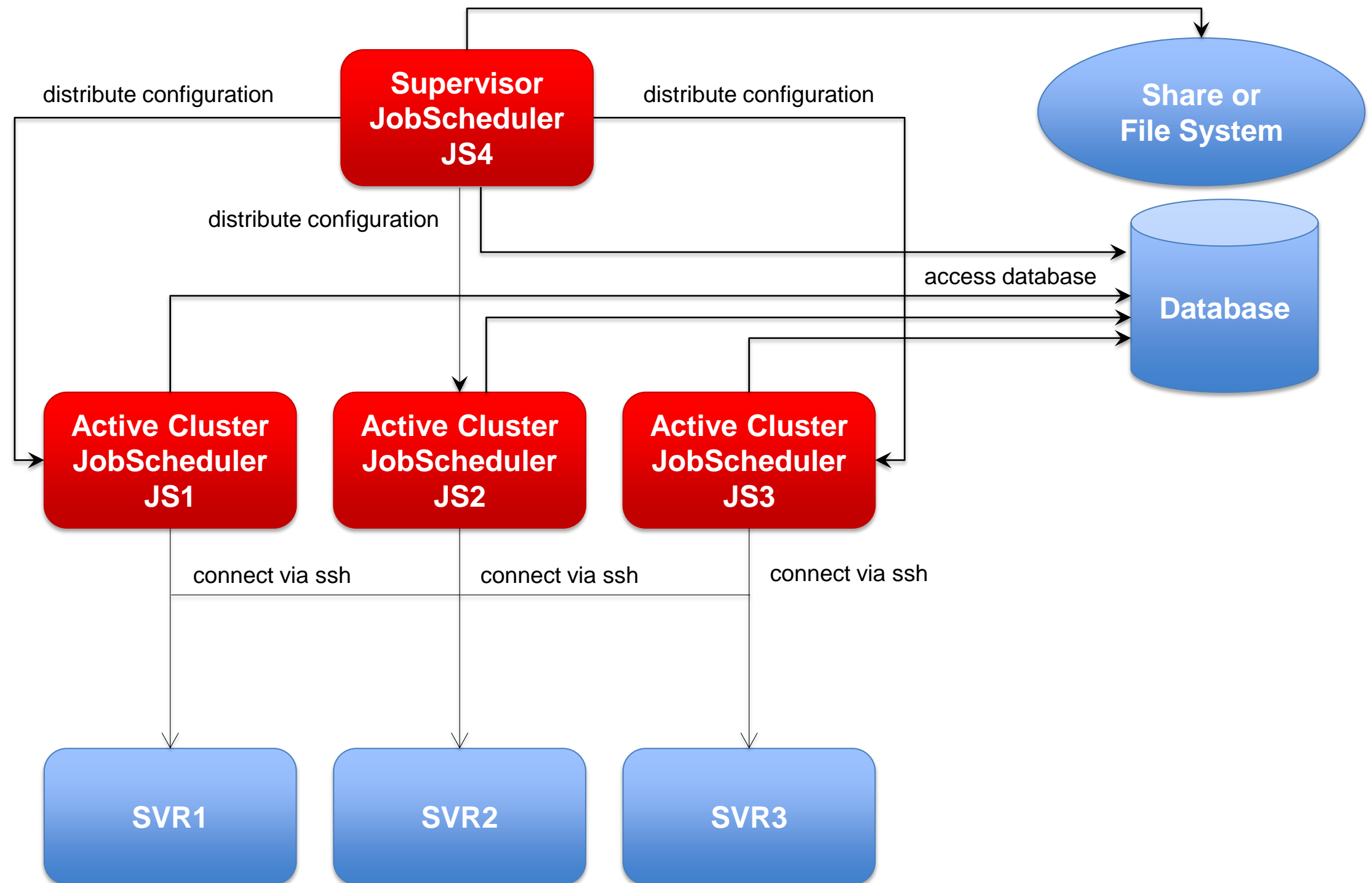


**Active Workload  
JobScheduler Cluster**

- Cluster JobSchedulers use the same database
- Cluster JobSchedulers share the workload of jobs
- All Instances operate in active mode
- All connections to servers use the ssh protocol

**Supervisor  
JobScheduler**

- Distribute configuration to Cluster JobScheduler instances

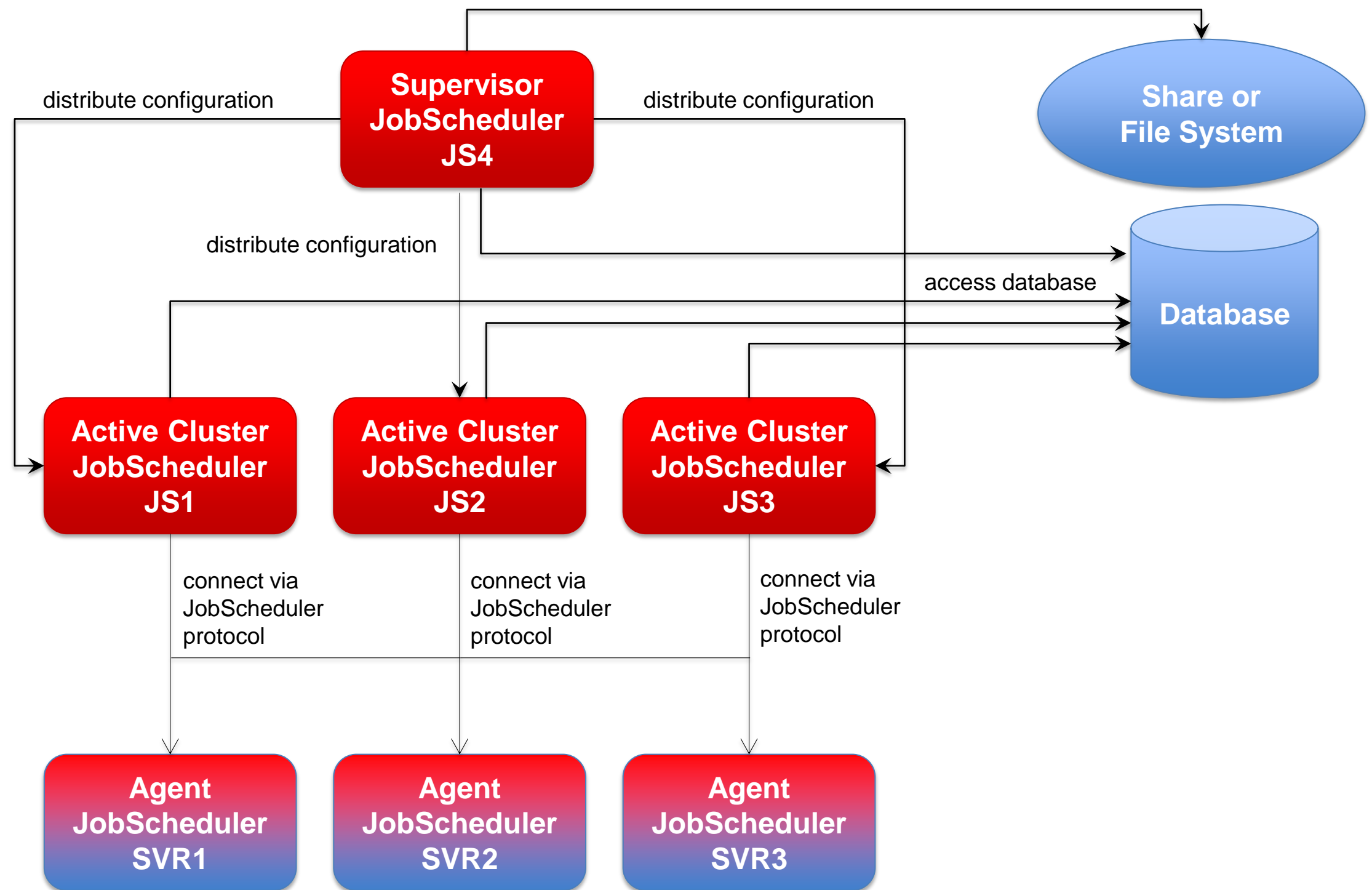


**Master/Agent Active Cluster**

- Cluster JobSchedulers use the same database
- Cluster JobSchedulers share the workload of jobs
- All Instances operate in active mode
- All Cluster instances use Agents to execute jobs on remote servers

**Supervisor JobScheduler**

- Distribute configuration to Cluster JobScheduler instances

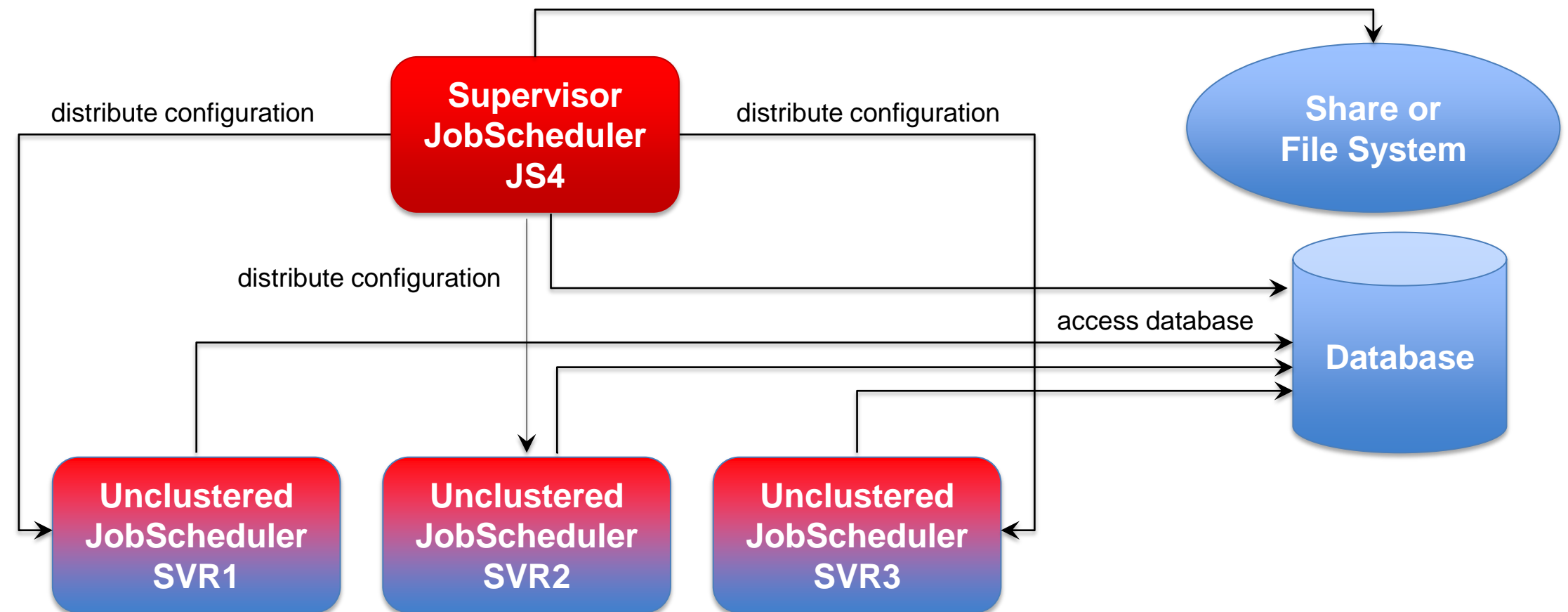


**Unclustered JobSchedulers**

- JobSchedulers use the same database
- JobSchedulers operate independently from each other
- All Instances operate in active mode

**Supervisor JobScheduler**

- Distribute configuration to JobScheduler instances





**Questions?**  
**Comments?**  
**Feedback?**

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