

A survey on high availability clusters

The objective of the study is to investigate the capabilities and features of high availability clusters. If something is missing please use the "Other" field to add it. Please use the 'Additional information' field at the end of the survey to provide any other information you consider relevant.

*Required

1. **Company ***

2. **Name**

3. **E-mail address**

4. **Phone**

5. **High availability solution developed by your organisation ***

6. **Version ***

7. OS and platform *

Tick all that apply.

- ☐ AIX on Power
- ☐ HP-UX on IA64
- ☐ IBM i on Power
- ☐ Oracle Linux on SPARC
- ☐ Oracle Linux on x86_64
- ☐ Red Hat Enterprise Linux on Power
- ☐ Red Hat Enterprise Linux on x86_64
- ☐ Solaris on SPARC
- ☐ Solaris on x86_64
- ☐ SUSE Linux Enterprise Server on Power

- ☐ SUSE Linux Enterprise Server on x86_64
- ☐ Windows
- ☐ Other: _____

8. Support for virtualized environments *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Other: _____

9. Maximum number of nodes per cluster

10. Support for type of cluster *

Tick all that apply.

- ☐ Local
- ☐ Campus
- ☐ Metro
- ☐ Continental
- ☐ Other: _____

11. Support for topology *

Tick all that apply.

- ☐ Active-active
- ☐ Active-passive
- ☐ N+1

- ☐ N+M
- ☐ N-to-1
- ☐ N-to-N
- ☐ Other: _____

12. Cluster data

Tick all that apply.

- ☐ Configuration
- ☐ Runtime
- ☐ Other: _____

13. Management of configuration data

Tick all that apply.

- ☐ Independent configuration files (manually synchronized)
- ☐ Independent configuration files (automatically synchronized)
- ☐ Repository (standalone)
- ☐ Repository (shared)
- ☐ Quorum
- ☐ Replicated
- ☐ Other: _____

14. Management of run-time data

Tick all that apply.

- ☐ In-memory on all nodes and synchronized
- ☐ In-memory replicated (master-slave)
- ☐ Repository (standalone)
- ☐ Repository (shared)
- ☐ Quorum
- ☐ Other: _____

15. Supported heartbeat methods *

Tick all that apply.

- ☐ Disk (SAN)
- ☐ LAN
- ☐ Other: _____

16. Purpose of internal messaging *

Tick all that apply.

- ☐ Synchronization of cluster configuration data
- ☐ Synchronization of cluster run-time data
- ☐ Other: _____

17. Supported messaging channel

Mark only one oval.

- ☐ Heartbeat network
- ☐ Private network (separate from heartbeat network)
- ☐ Public network
- ☐ Other: _____

18. Supported messaging methods *

Tick all that apply.

- ☐ Multicast
- ☐ Broadcast
- ☐ Unicast
- ☐ IP socket
- ☐ Other: _____

19. Support for dependency management *

Tick all that apply.

- ☐ Resource
- ☐ Group
- ☐ Other: _____

20. Supported databases *

Tick all that apply.

- ☐ DB2
- ☐ HANA
- ☐ MariaDB
- ☐ MaxDB
- ☐ MySQL
- ☐ Oracle
- ☐ Postgres
- ☐ SQL server
- ☐ Sybase ASE
- ☐ Other: _____

21. Supported enterprise applications *

Enter the type of enterprise application.

Tick all that apply.

- ☐ Informatica
- ☐ IBM InfoSphere DataStage
- ☐ IBM WebSphere
- ☐ Oracle Applications
- ☐ Oracle PeopleSoft
- ☐ Oracle Siebel
- ☐ SAP NetWeaver
- ☐ SAP HANA
- ☐ SAP Master Data Management (MDM)
- ☐ SAS
- ☐ Teradata
- ☐ Other: _____

22. Resource management method *

Tick all that apply.

- ☐ Policy-based
- ☐ Rule-based
- ☐ Other: _____

23. Monitoring areas *

Tick all that apply.

- ☐ Server
- ☐ Cluster (cluster internal processes and componenets)
- ☐ Applications (suported databases and applications)
- ☐ Other: _____

24. Monitoring types *

Tick all that apply.

- ☐ State based
- ☐ Threshold based
- ☐ Other: _____

25. Supported monitoring methods *

Tick all that apply.

- ☐ Poll
- ☐ Push
- ☐ Asynchronous
- ☐ Other

26. Recovery level *

Tick all that apply.

- ☐ Resource
- ☐ Group
- ☐ Node
- ☐ Other: _____

27. Does the solution support a quorum setup? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Other: _____

28. Supported quorum configurations

Tick all that apply.

- ☐ Node
- ☐ Disk
- ☐ File share
- ☐ Dynamic quorum
- ☐ Other: _____

29. Supported isolation methods *

Tick all that apply.

- ☐ Fencing
- ☐ Shutdown
- ☐ Other: _____

30. Fencing support

Tick all that apply.

- ☐ Resource
- ☐ Node
- ☐ Other: _____

31. Data synchronization support *

Tick all that apply.

- ☐ Replication
- ☐ Mirroring
- ☐ Shared storage
- ☐ Shared nothing
- ☐ Other: _____

32. Replication support

Supported replication methods either directly or by using agents.

Tick all that apply.

- ☐ Application
- ☐ Host
- ☐ Array-based
- ☐ Other: _____

33. Replication method support

Tick all that apply.

- ☐ Synchronous
- ☐ Asynchronous
- ☐ Other: _____

34. Support for shared nothing

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Other: _____

35. Does the solution support automatic fail-over? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Other: _____

36. On average, how long does it take to complete a failover? *

In the context of enterprise applications, multi-tiered and distributed solutions with high workload.

37. What elements are the biggest contributors to the failover time? *

38. Can the high availability cluster find critical application-specific errors such as application hang? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Other: _____

39. Does the cluster take into account resource dependencies when taking mitigation actions?

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Mark only one oval.

☐ Yes

☐ No

☐ Other: _____

40. In your opinion, what are the main challenges facing your high availability cluster product today? *

41. Additional information

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