Description of Workload

Assuming a day in the calendar with no prior entries in it, insert the following events in the calendars of the nodes in the system. Example, Insert on Node\textsubscript{1}, Meeting involving User\textsubscript{1} and User\textsubscript{2}, Monday 9 – 10 am, means you are inserting in the calendar of User\textsubscript{1} at Node\textsubscript{1} a meeting with User\textsubscript{2} at the specified time. Since we are only looking at a specific day in the calendar – for groups that will implement only a day-long calendar, Monday is redundant information. For groups that will implement a realistic calendar allowing multiple days, they will insert the events on Monday. Insert the events in the order in which they have been specified.

1. Insert on Node\textsubscript{1}, Meeting involving User\textsubscript{1}, Monday 9 – 10 am.
2. Insert on Node\textsubscript{2}, Meeting involving User\textsubscript{2}, Monday 10:15 – 10:30 am.
3. Insert on Node\textsubscript{3}, Meeting involving User\textsubscript{3}, Monday 11 – 11:30 am.
4. Insert on Node\textsubscript{4}, Meeting involving User\textsubscript{4}, Monday 9 – 9:30 am.
5. Insert on Node\textsubscript{5}, Meeting involving User\textsubscript{5}, Monday 11:30 am – 12:30 pm.
6. Insert on Node\textsubscript{5}, Meeting involving User\textsubscript{5}, Monday 3:30 – 4:30 pm.
7. Insert on Node\textsubscript{4}, Meeting involving User\textsubscript{4}, Monday 11 – 11:30 am.
8. Insert on Node\textsubscript{4}, Meeting involving User\textsubscript{4}, Monday 2 – 4 pm.
9. Insert on Node\textsubscript{4}, Meeting involving User\textsubscript{4}, Monday 4:30 – 5 pm.
10. Insert on Node\textsubscript{2}, Meeting involving User\textsubscript{2}, Monday 11 am – 1 pm.
11. Insert on Node\textsubscript{2}, Meeting involving User\textsubscript{2}, Monday 1:30 – 2:30 pm.
12. Insert on Node\textsubscript{1}, Meeting involving User\textsubscript{1}, Monday 11 – 11:30 am.
13. Insert on Node\textsubscript{3}, Meeting involving User\textsubscript{3}, Monday 9 – 9:30 am.
14. Insert on Node\textsubscript{1}, Meeting involving User\textsubscript{1}, Monday 2:30 – 3:30 pm.
15. Insert on Node\textsubscript{3}, Meeting involving User\textsubscript{3}, Monday 12:15 – 12:30 pm.
16. Insert on Node\textsubscript{3}, Meeting involving User\textsubscript{3}, Monday 3 – 3:30 pm.
17. Insert on Node\textsubscript{5}, Meeting involving User\textsubscript{5}, Monday 8:30 – 10:30 am.
18. Insert on Node\textsubscript{1}, Meeting involving User\textsubscript{1} and User\textsubscript{2}, Monday 7:30 – 8:30 am.
19. Insert on Node\textsubscript{2}, Meeting involving User\textsubscript{2} and User\textsubscript{3}, Monday 3:45 – 4:30 pm.
20. Insert on Node\textsubscript{1}, Meeting involving User\textsubscript{1} and User\textsubscript{3}, Monday 12:00 noon – 12:30 pm.
21. Insert on Node5, Meeting involving User5 and User1, Monday 2:15 – 3:00 pm.
22. Insert on Node5, Meeting involving User5 and User3, Monday 12:45 – 1:30 pm.
23. Insert on Node4, Meeting involving User4 and User1, Monday 12:15 – 1:30 pm.
24. Insert on Node4, Meeting involving User4 and User2, Monday 10 – 11 am.
25. Insert on Node1, Meeting involving User1, User3, and User4, Monday 5:15 – 6:30 pm.
26. Insert on Node2, Meeting involving User2 and User5, Monday 5 – 6 pm.
27. Delete on Node5, Meeting involving User5, Monday 8:30 – 10:30 am.
29. Delete on Node1, Meeting involving User1, Monday 9 – 10 am.
30. Delete on Node2, Meeting involving User2 and User1, Monday 7:30 – 8:30 am.
31. Insert on Node1, Meeting involving User1, Monday 4 – 4:30 pm.
32. Delete on Node2, Meeting involving User2 and User3, Monday 3:45 – 4:30 pm.
33. Insert on Node2, Meeting involving User1 and User2, Monday 3:45 – 4:30 pm.
34. Delete on Node5, Meeting involving User5, Monday 3:30 – 4:30 pm.
35. Insert on Node5, Meeting involving User5 and User2, Monday 3:30 – 4:30 pm.

**Bandwidth Report**

You should report the per node bandwidth consumed as a result of the above workload. Recall that according to the Wuu and Bernstein paper, messages are exchanged between nodes only when required by the application. Your bandwidth estimate should include the number of messages sent from a node, and the size of each message particularly specifying the number of log-entries shipped. Also note that every message exchanged should have the truncated log and the timetable. Report the bandwidth (number of messages and size of messages) of each node after events 10, 20, 30, and 35. Please note that these values should be obtained experimentally, and since there are no node failures in this workload, your bandwidth estimation should be repeatable during the demo as well.