

InstallSnapshot RPC

Invoked by leader to send chunks of a snapshot to a follower.
Leaders always send chunks in order.

Arguments:

term	leader's term
leaderId	so follower can redirect clients
lastIndex	the snapshot replaces all entries up through and including this index
lastTerm	term of lastIndex
lastConfig	latest cluster configuration as of lastIndex (include only with first chunk)
offset	byte offset where chunk is positioned in the snapshot file
data[]	raw bytes of the snapshot chunk, starting at offset
done	true if this is the last chunk

Results:

term	currentTerm, for leader to update itself
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Receiver implementation:

1. Reply immediately if $\text{term} < \text{currentTerm}$
2. Create new snapshot file if first chunk (offset is 0)
3. Write data into snapshot file at given offset
4. Reply and wait for more data chunks if done is false
5. If lastIndex is larger than latest snapshot's, save snapshot file and Raft state (lastIndex, lastTerm, lastConfig). Discard any existing or partial snapshot.
6. If existing log entry has same index and term as lastIndex and lastTerm, discard log up through lastIndex (but retain any following entries) and reply
7. Discard the entire log
8. Reset state machine using snapshot contents (and load lastConfig as cluster configuration)