> `innodb_buffer_pool_size` to ensure that the resulting buffer pool size is acceptable.

To avoid potential performance issues, the number of chunks (`innodb_buffer_pool_size` / `innodb_buffer_pool_chunk_size`) should not exceed 1000.

The `innodb_buffer_pool_size` variable is dynamic, which permits resizing the buffer pool while the server is online. However, the buffer pool size must be equal to or a multiple of `innodb_buffer_pool_chunk_size` * `innodb_buffer_pool_instances`, and changing either of those variable settings requires restarting the server.

See Section 15.8.3.1, "Configuring InnoDB Buffer Pool Size" for more information.

- `innodb_buffer_pool_debug`

Command-Line Format	`--innodb-buffer-pool-debug[={OFF|ON}]`
System Variable	`innodb_buffer_pool_debug`
Scope	Global
Dynamic	No
`SET_VAR` Hint Applies	No
Type	Boolean
Default Value	`OFF`

Enabling this option permits multiple buffer pool instances when the buffer pool is less than 1GB in size, ignoring the 1GB minimum buffer pool size constraint imposed on `innodb_buffer_pool_instances`. The `innodb_buffer_pool_debug` option is only available if debugging support is compiled in using the `WITH_DEBUG CMake` option.

- `innodb_buffer_pool_dump_at_shutdown`

Command-Line Format	`--innodb-buffer-pool-dump-at-shutdown[={OFF|ON}]`
System Variable	`innodb_buffer_pool_dump_at_shutdown`
Scope	Global
Dynamic	Yes
`SET_VAR` Hint Applies	No
Type	Boolean
Default Value	`ON`

Specifies whether to record the pages cached in the `InnoDB` buffer pool when the MySQL server is shut down, to shorten the warmup process at the next restart. Typically used in combination with `innodb_buffer_pool_load_at_startup`. The `innodb_buffer_pool_dump_pct` option defines the percentage of most recently used buffer pool pages to dump.

Both `innodb_buffer_pool_dump_at_shutdown` and `innodb_buffer_pool_load_at_startup` are enabled by default.

For more information, see Section 15.8.3.6, "Saving and Restoring the Buffer Pool State".