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| --- | --- |
| PROCESS | THREAD |
| Each process has its own memory space | Threads share the same address space |
| Process is heavy weight.Why?  -Resource allocation like addres space  -Context switching involves changing the entire memory context, registers, file descriptors. Its slower  -Interprocess communication requires pipes, shared memory,  -Require system calls for interprocess communication which involves transition from user mode to kernel mode to access previleged operations and resources | Thread is light weight  -Only one address space  -Context switching is faster  -Threads within a process communicate efficiently |
| Cost of communication between process is hight | Cost of communication between thread is low |
| Creation and termination of process is costly process | Creating and terminating a thread is faster since it involves minimum resource allocation and cleanup. |
|  |  |

**THREADS**

Same address space.

Life cycle:

1) New

2) Runnable