

Dynamic Resource Allocation in Cloud Computing

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Outline

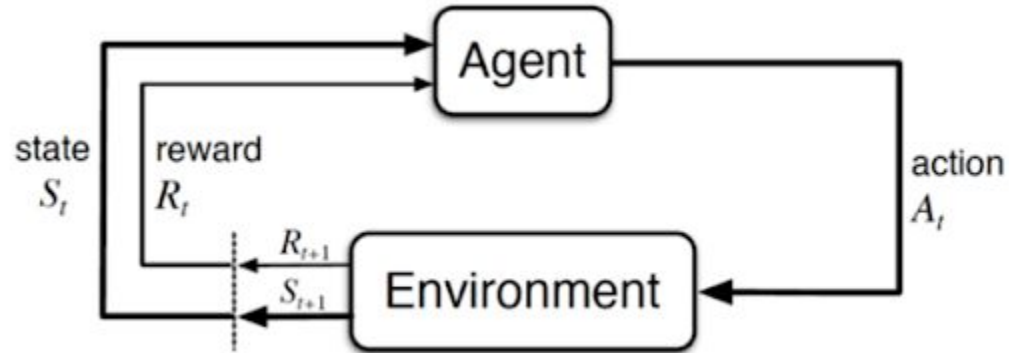
- Describe Problem
- Method
- Why this Method ?
- Basic Terminologies
- Execution Example

Problem

Save Energy

- Only Turn On System When User Need it.
- Give Min Resources or Decrease it so for less Energy.

Method :: Markov Decision Process



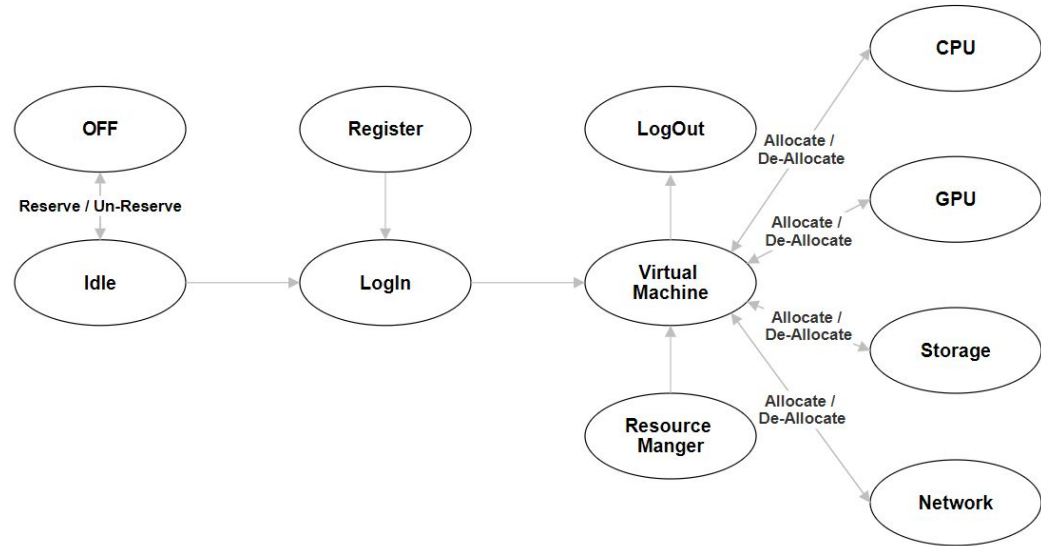
Why MDP ?

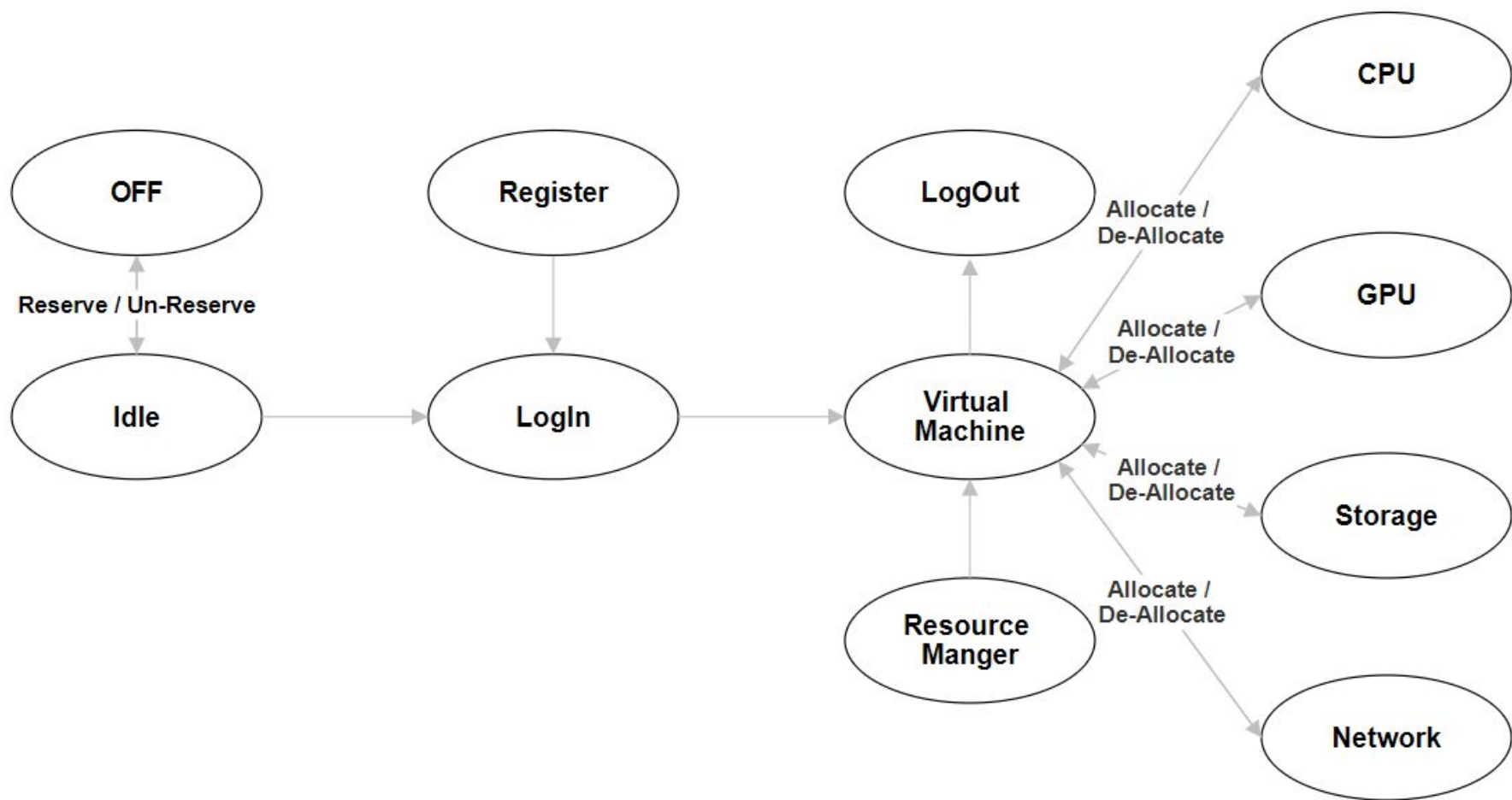
- Finite States
- Finite Actions
- Rewards Maximization
- Optimal Policy Sample Space Small

Basic Terminologies and Execution Example

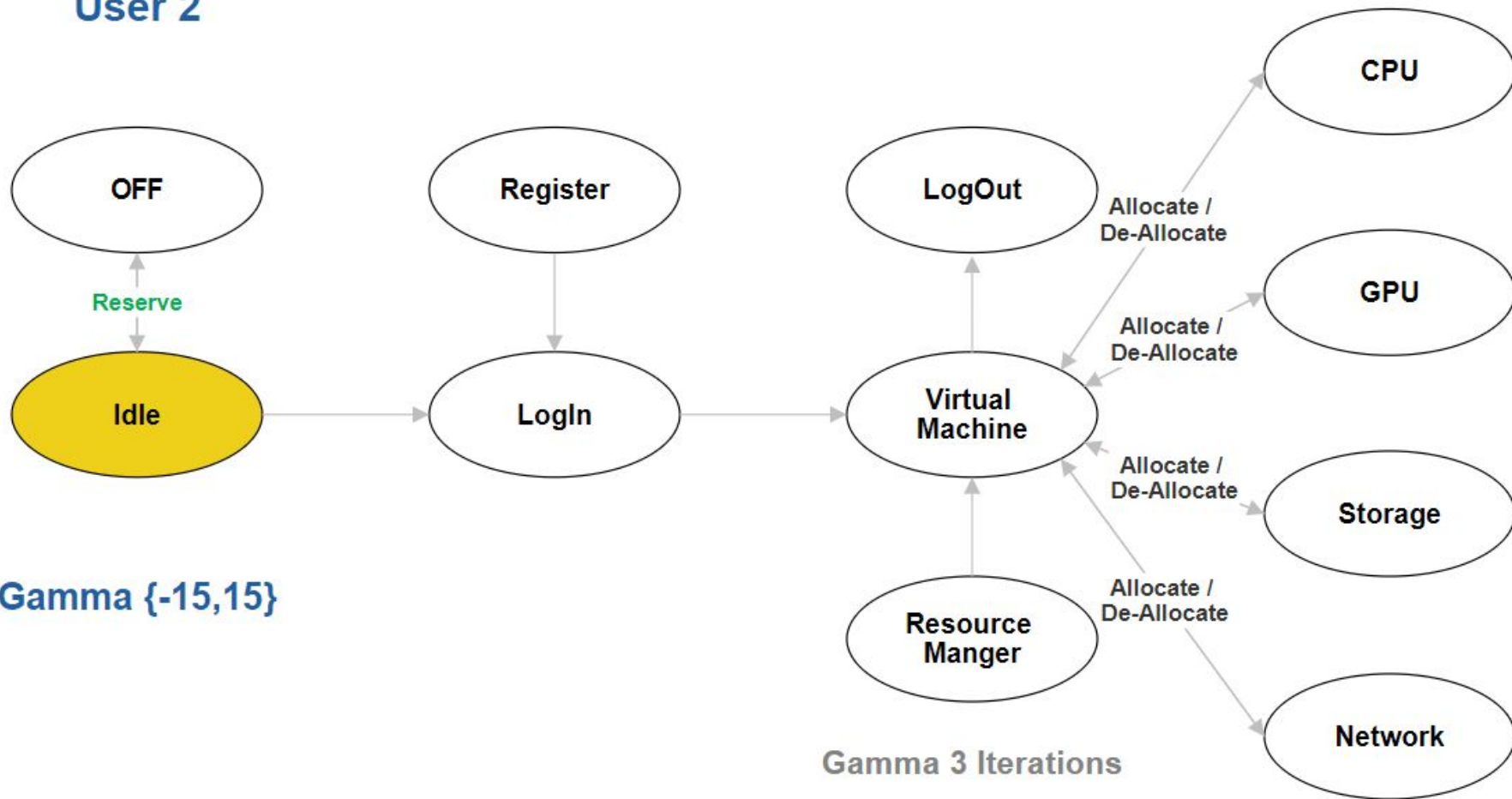
- States are in Oval
- Actions are on vertex
- One Arrow means
Single Direction

GitHub

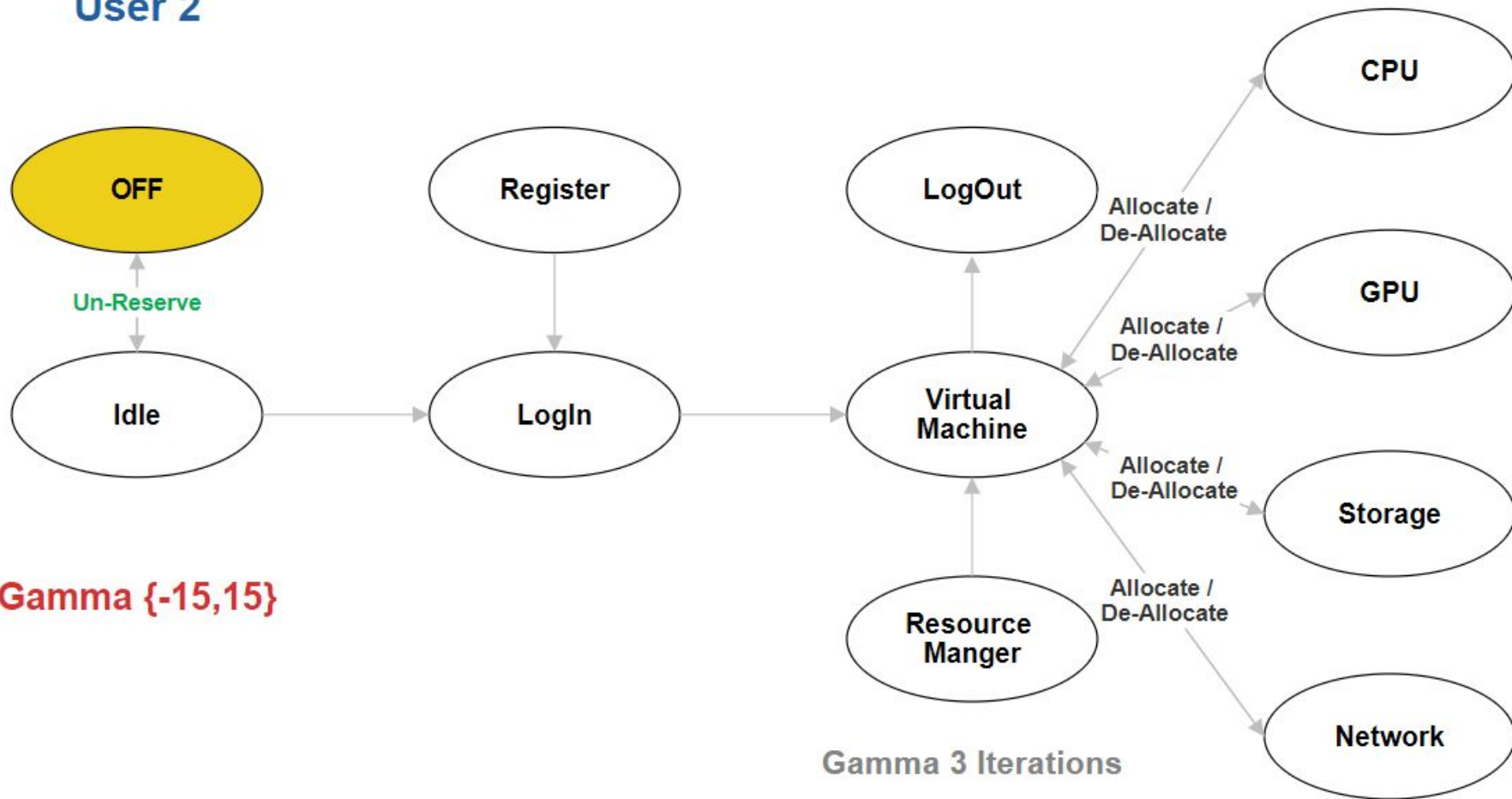




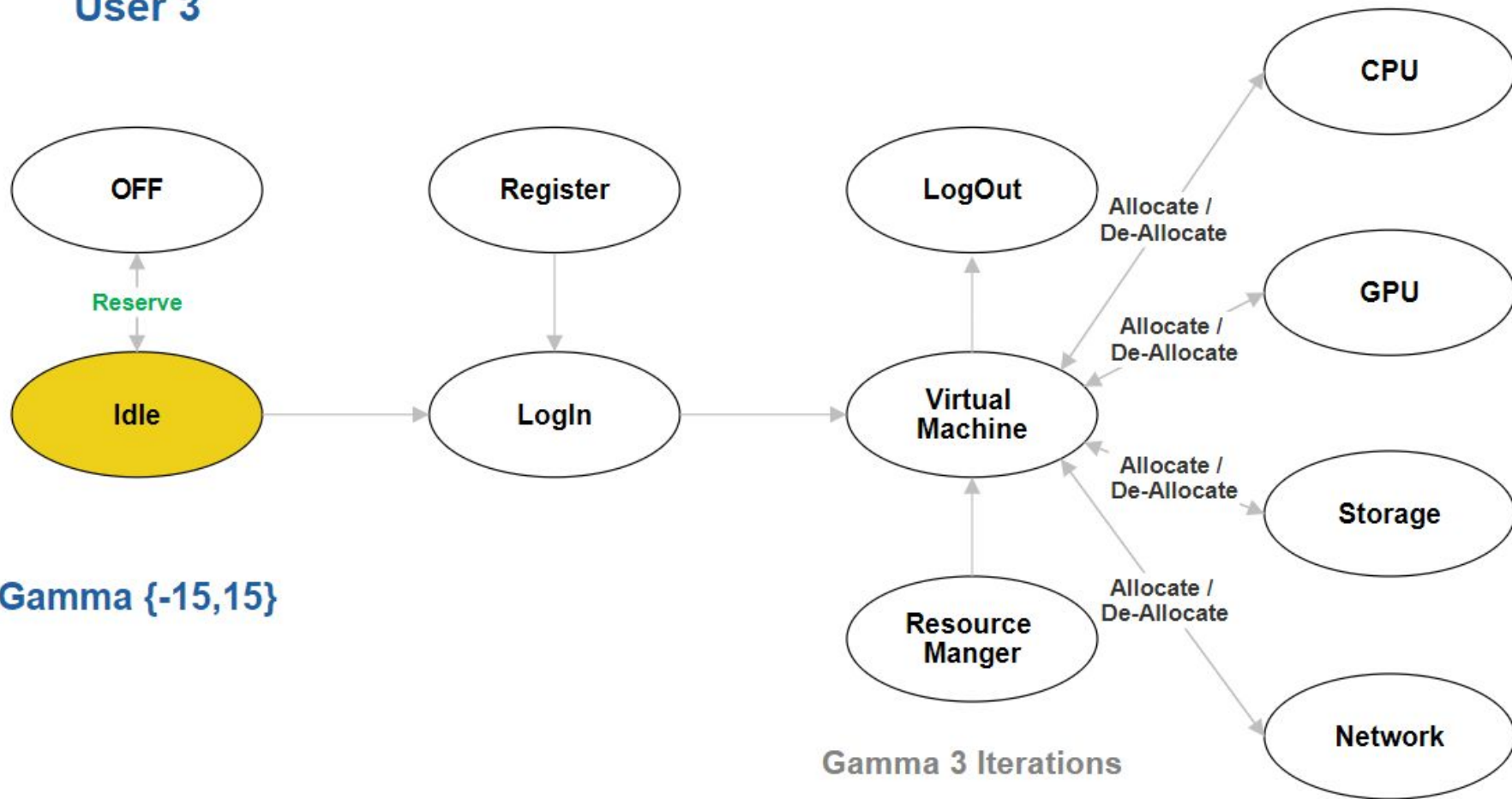
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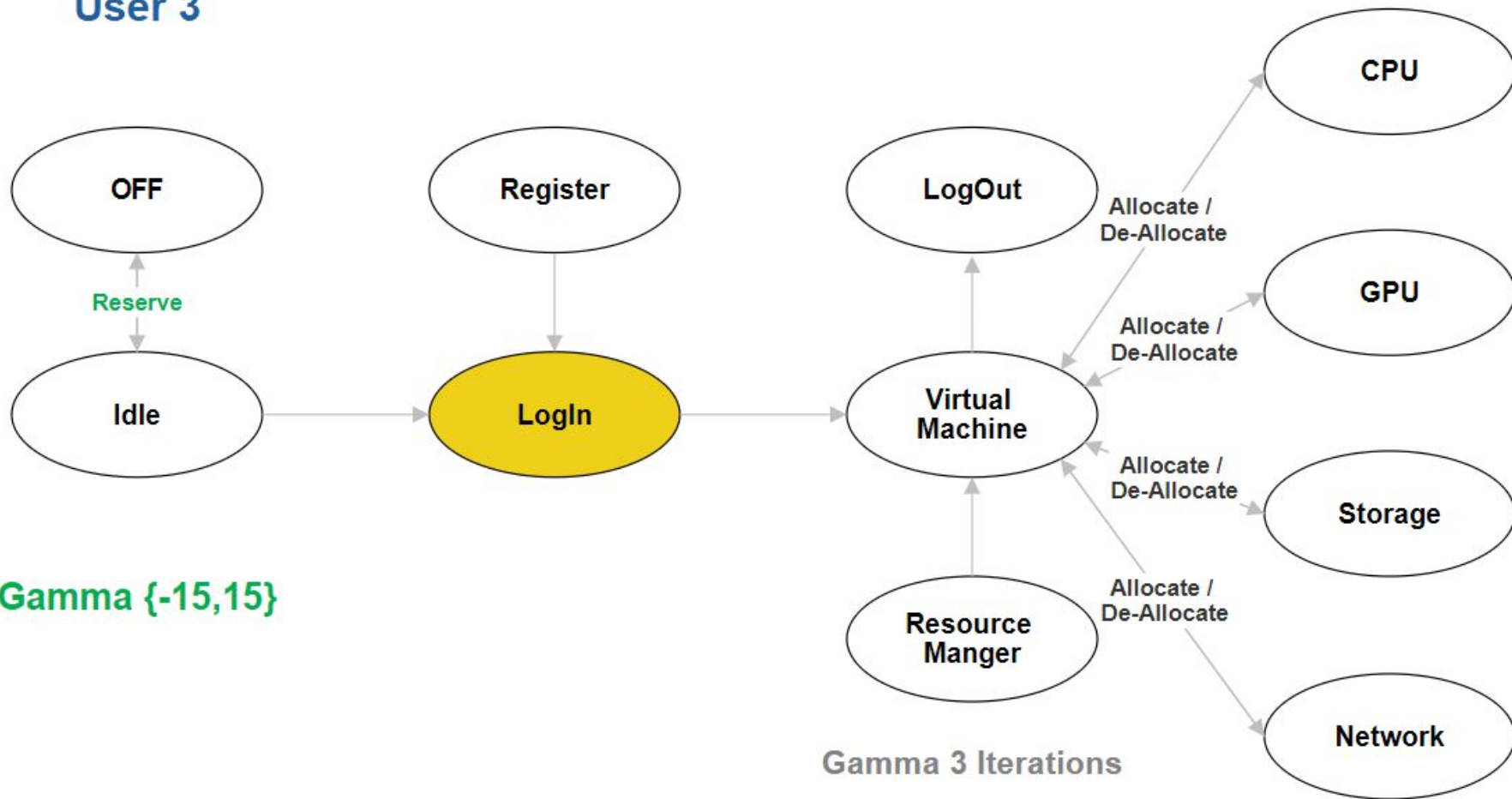
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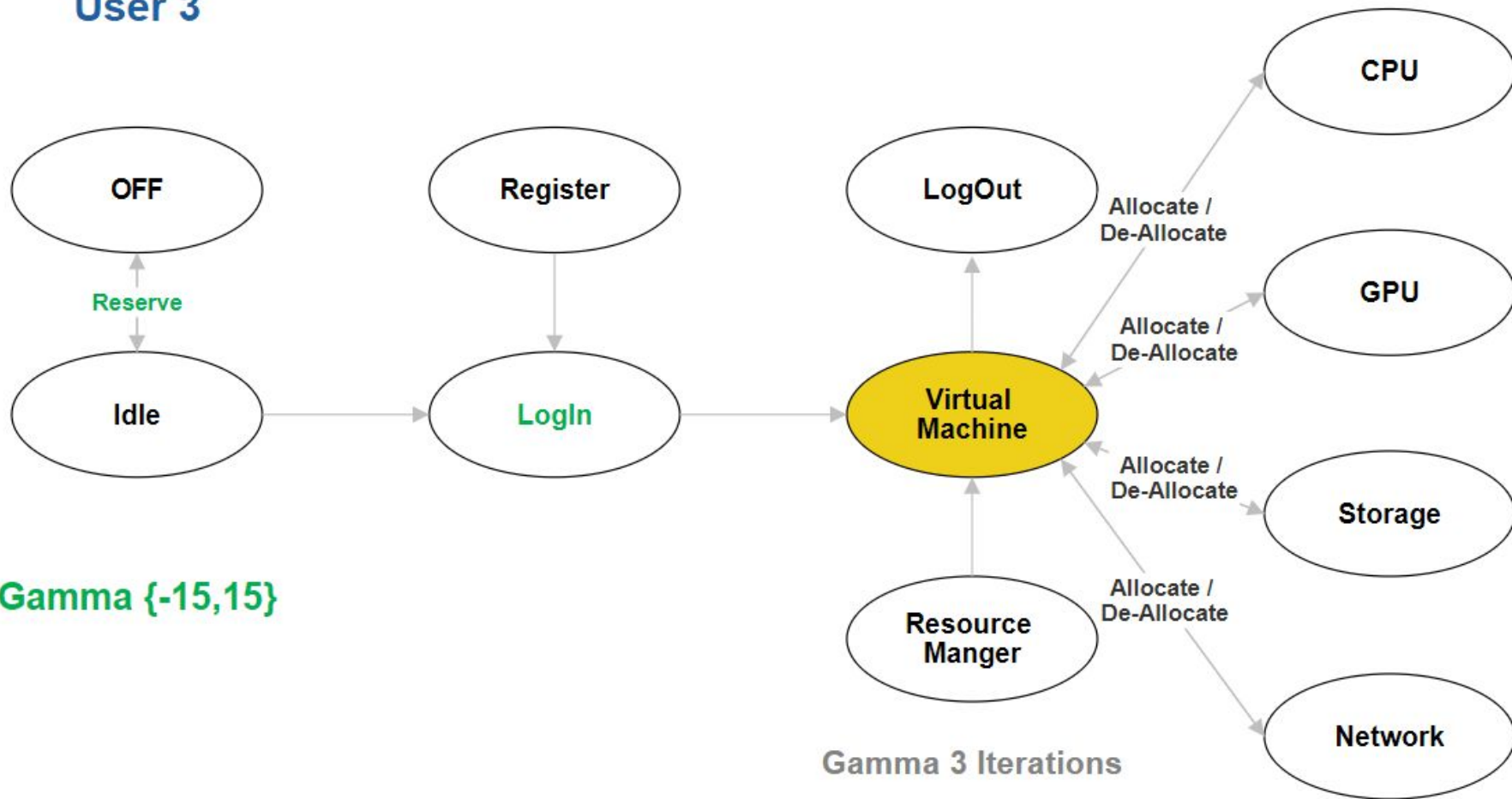
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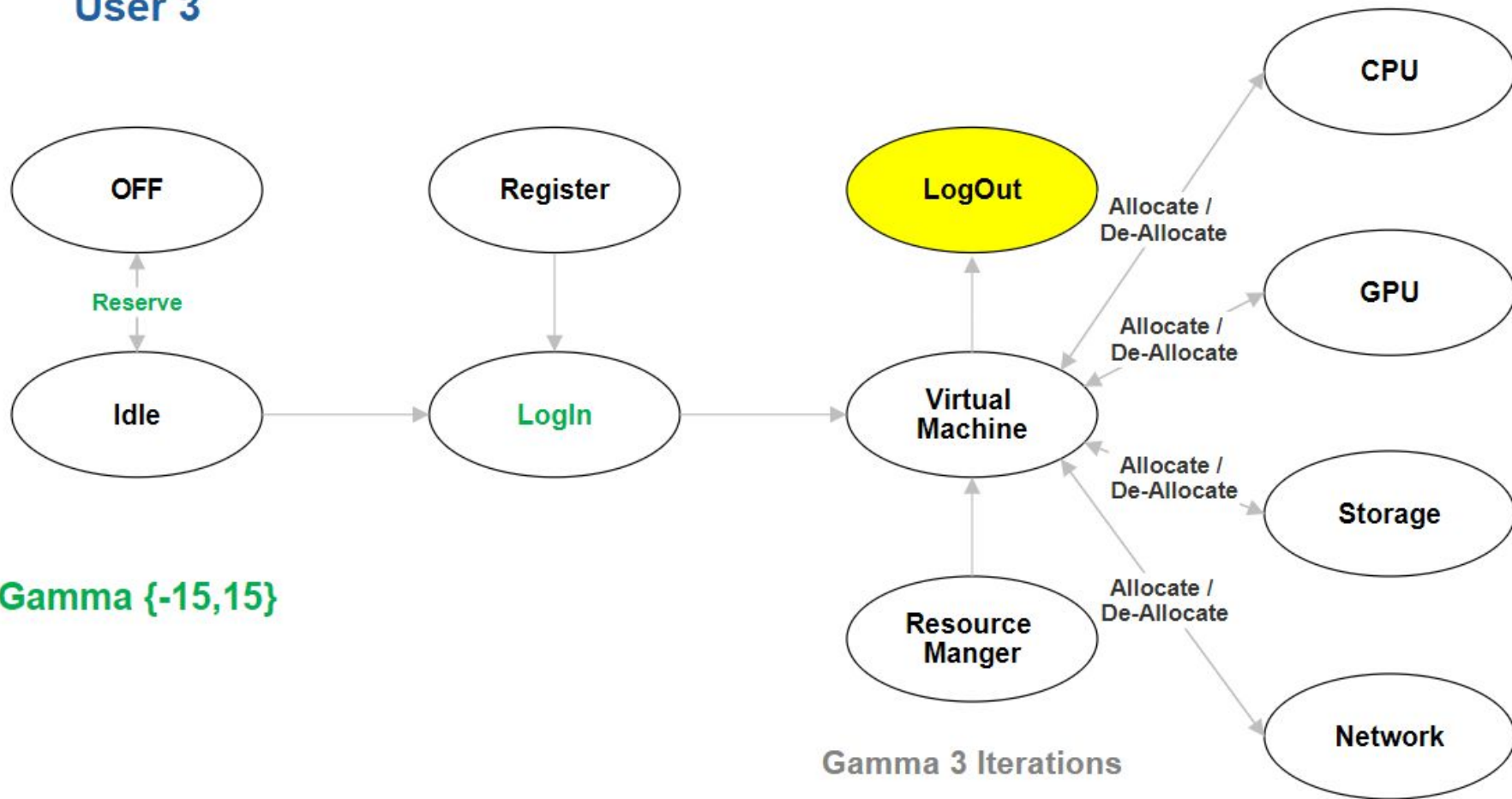
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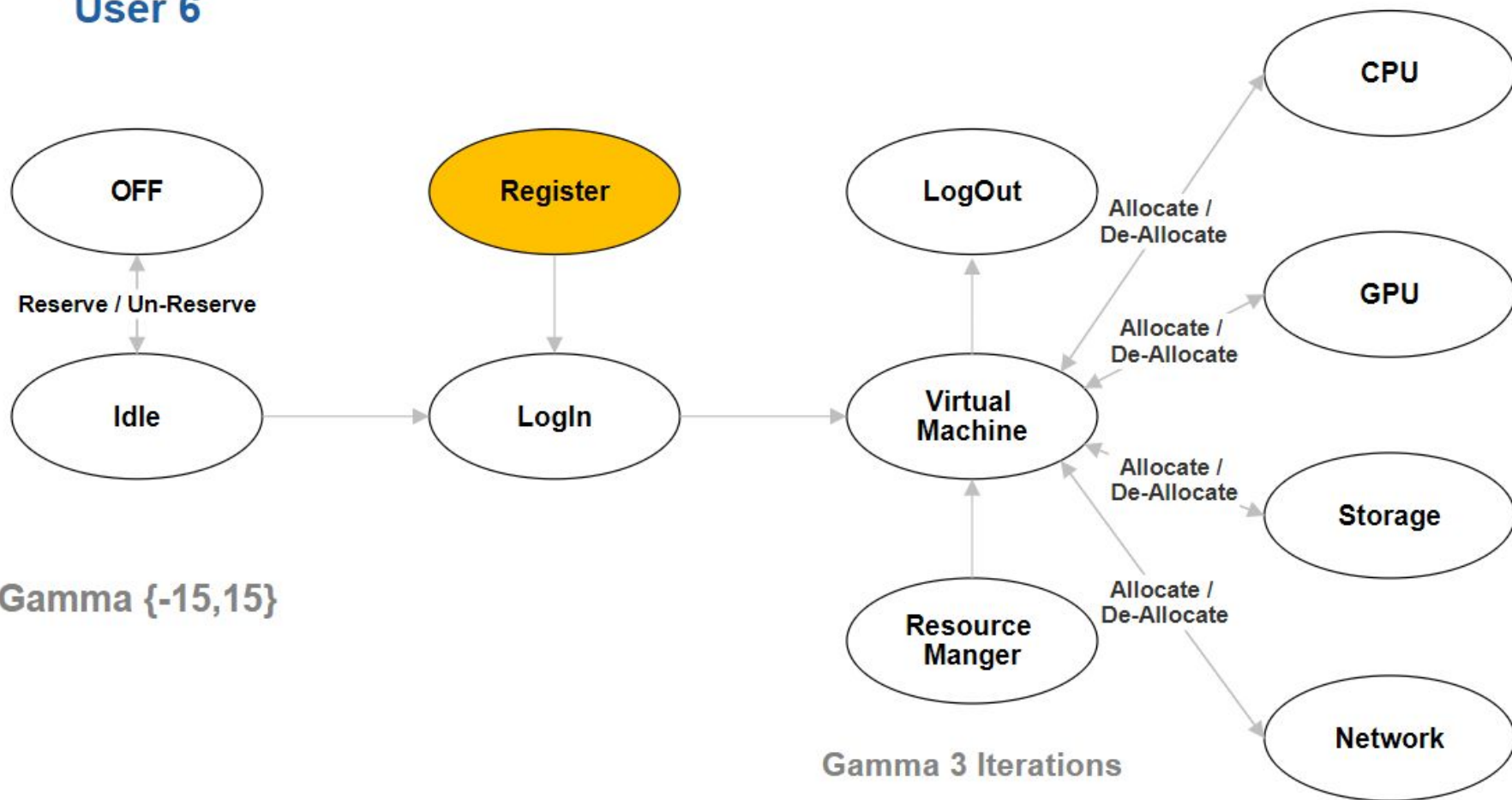
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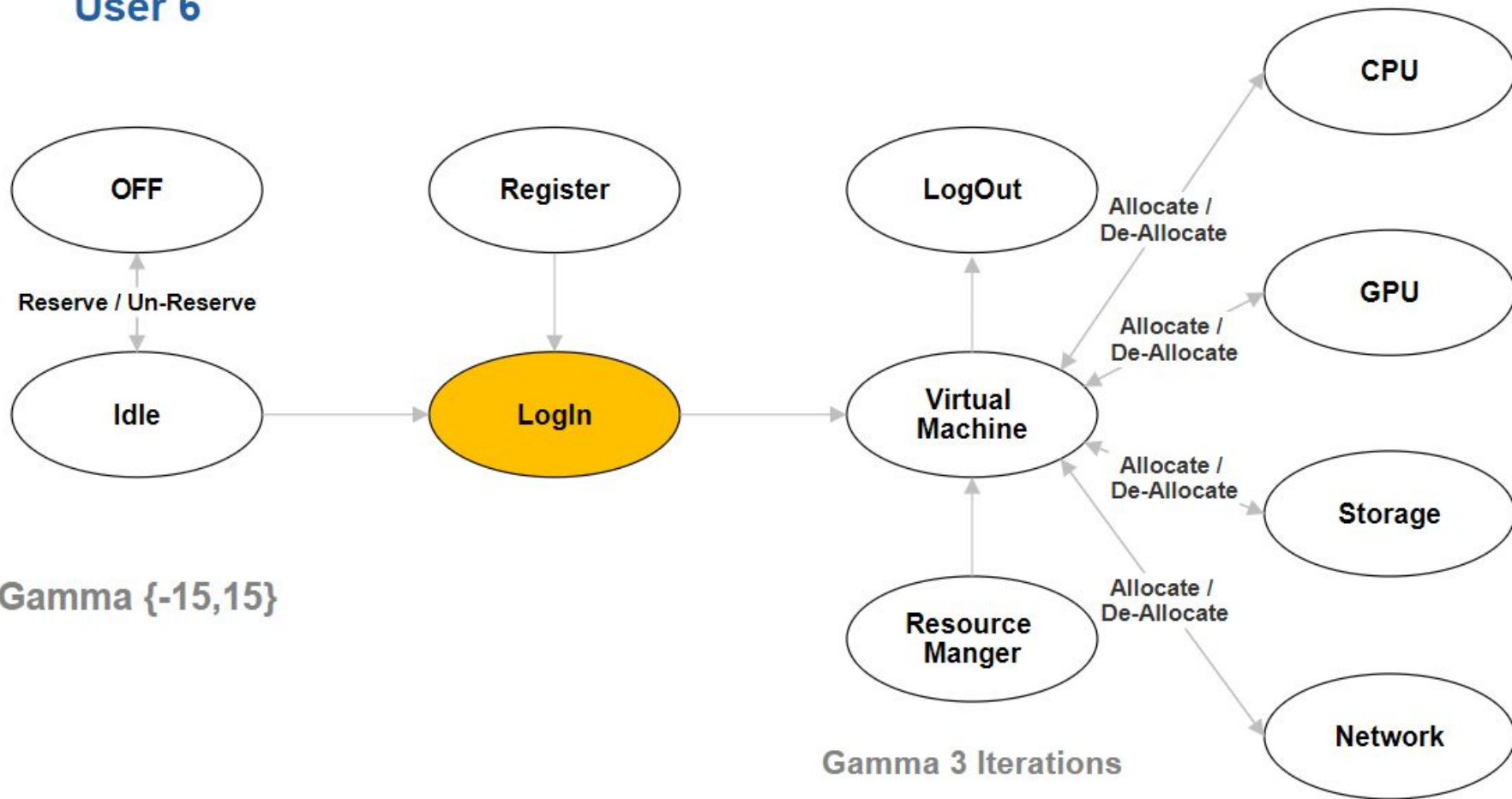
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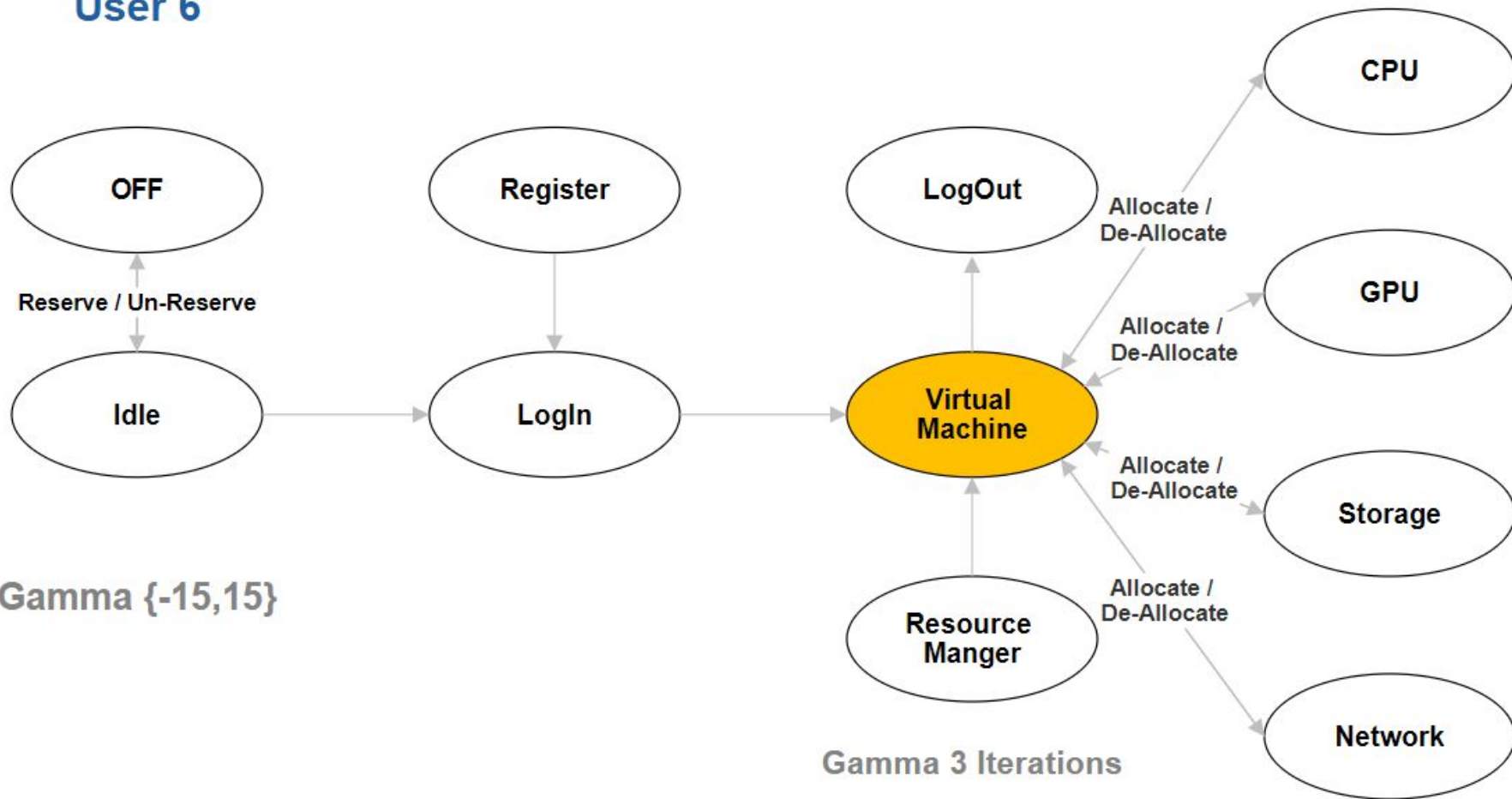
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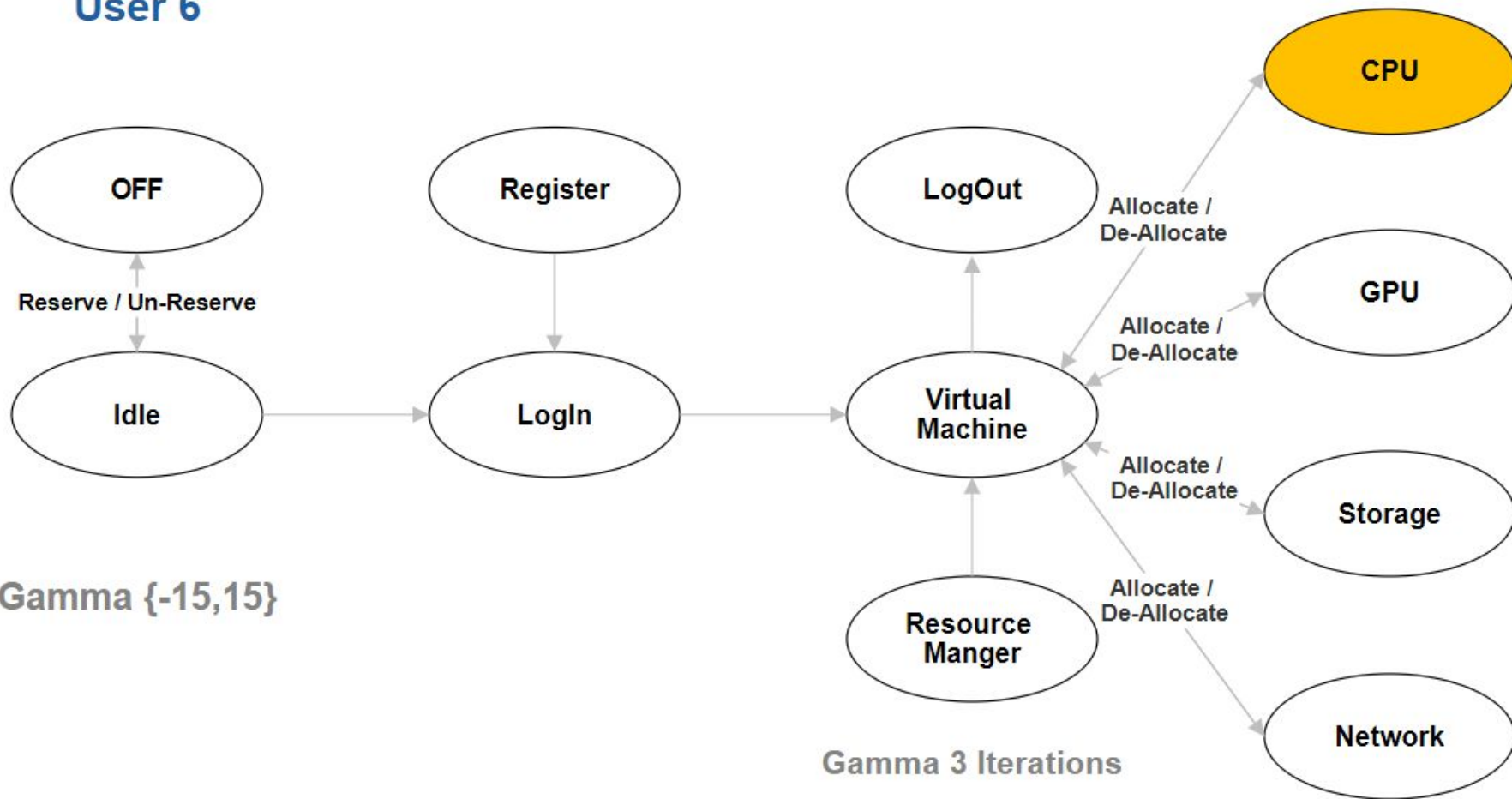
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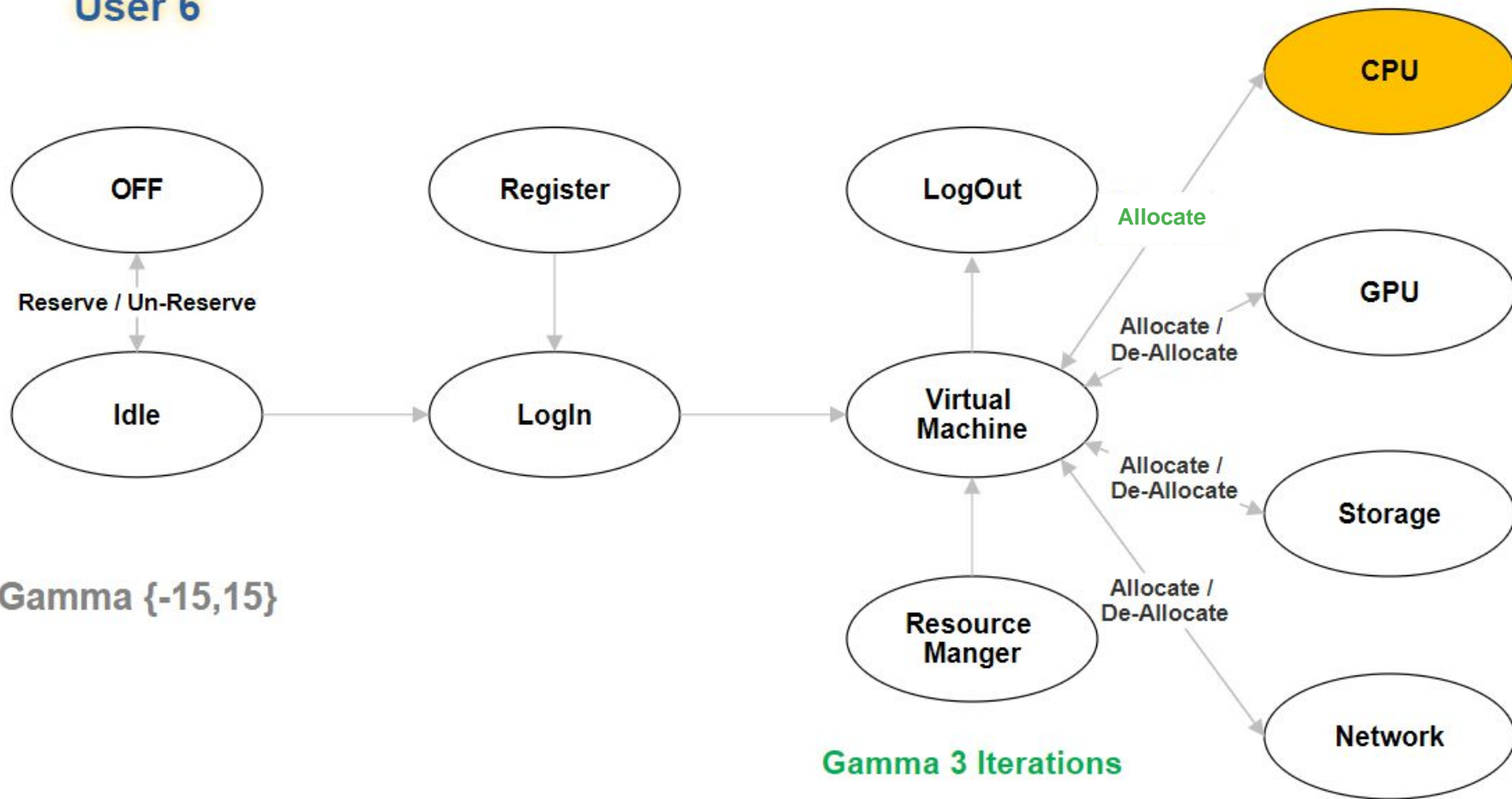
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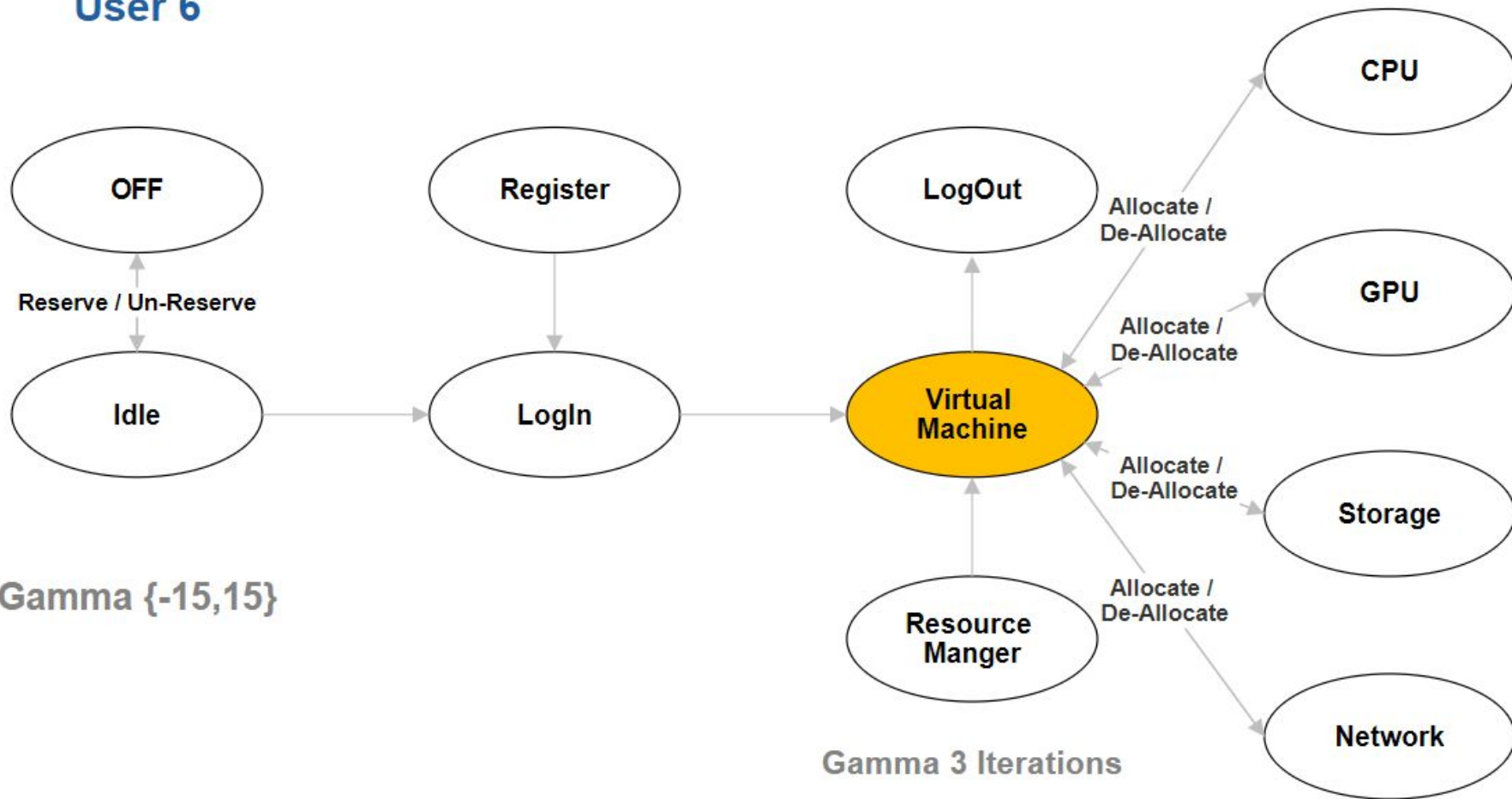
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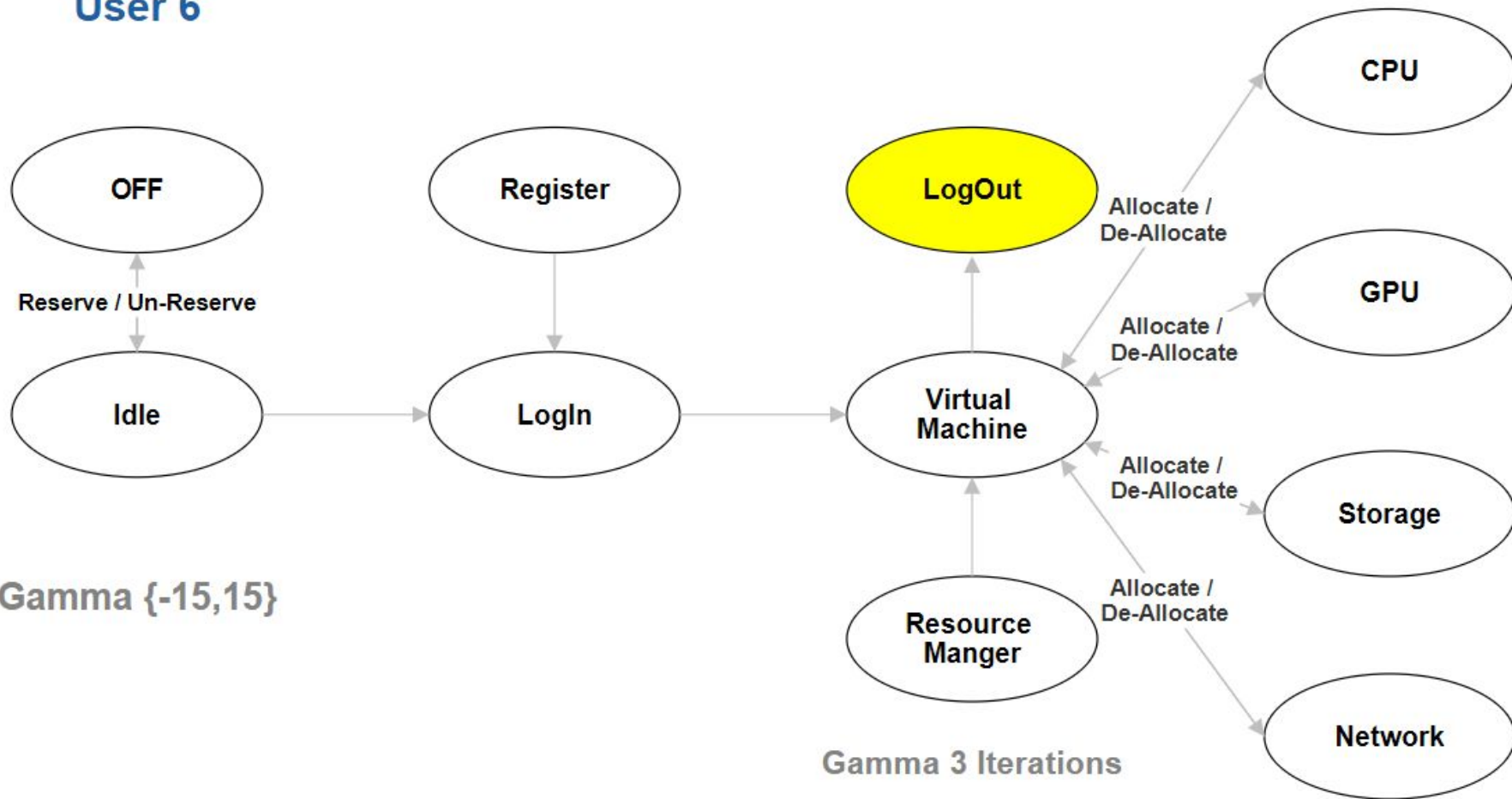
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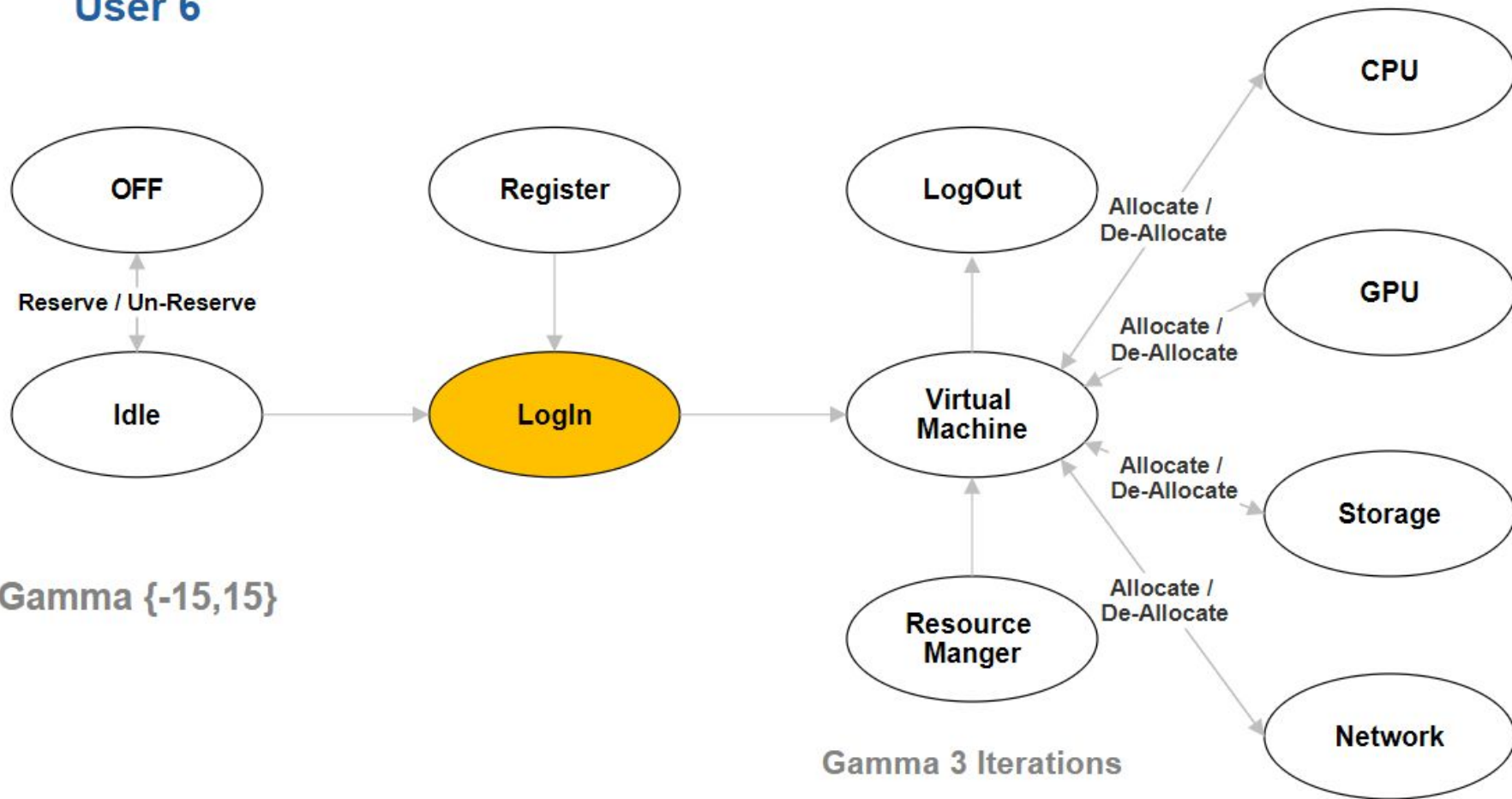
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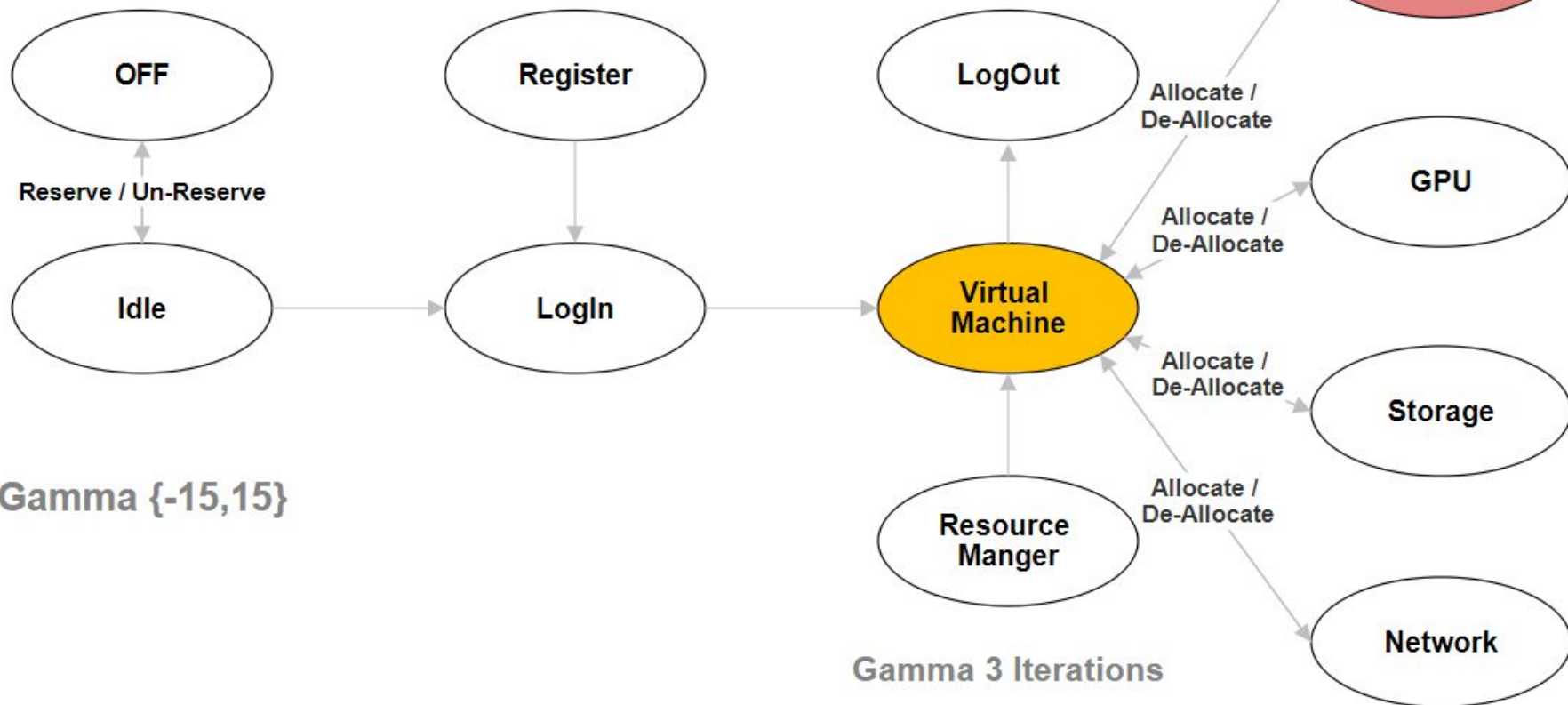
User 6



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