

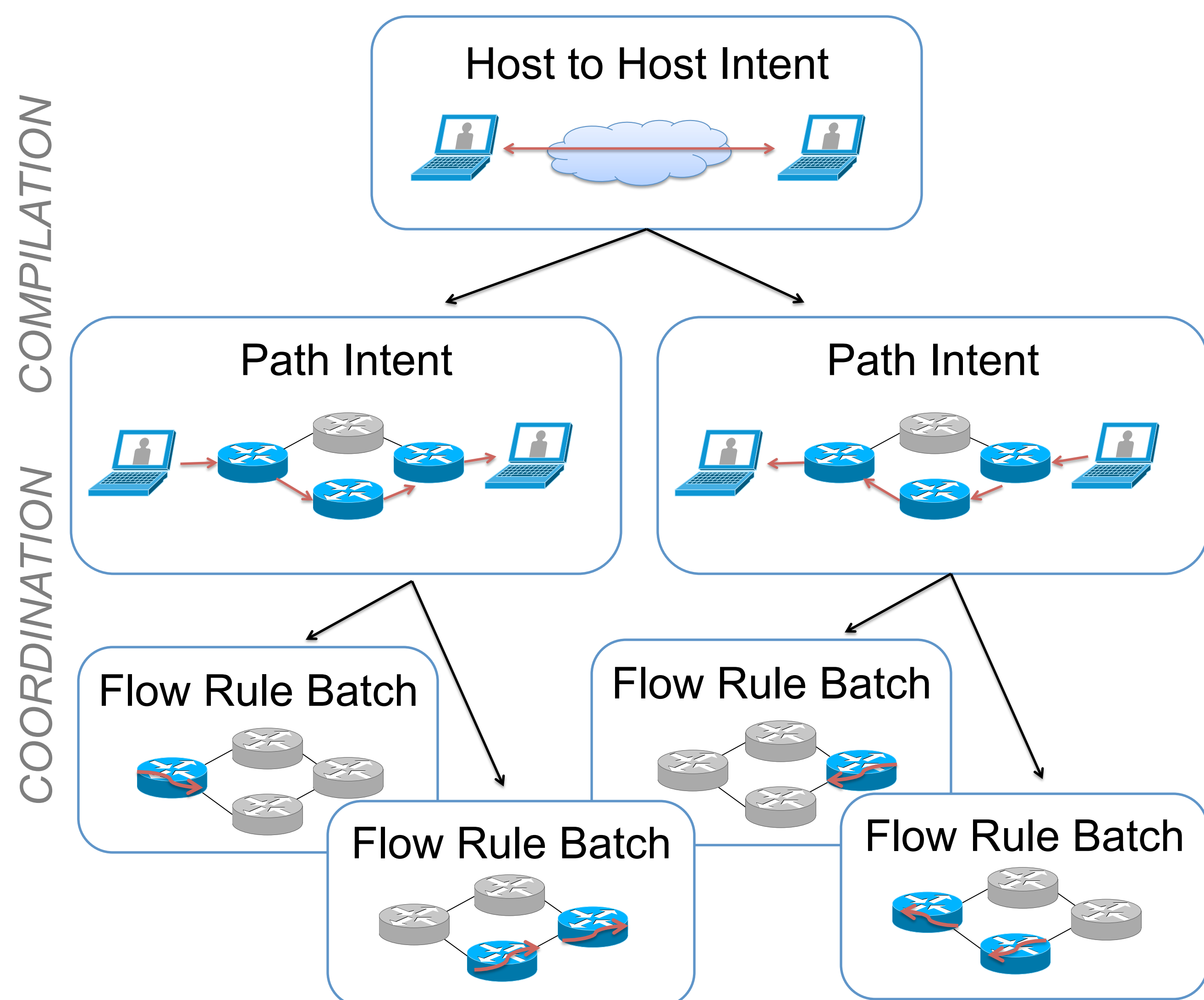
## Intents

- Provide a flexible, high-level interface for declaring global network policy
- Allow applications and operators to describe policy rather than device instructions
- Abstract network complexity from higher layers
- Extend easily to produce more complex functionality through combinations of other intents

## Intent Framework

- Translates intents into device instructions (in accordance with network state and policy)
- Coordinates and ensures installation of instructions
- Reacts to changing network conditions
- Permits optimization across intents
- Extends dynamically to add or change functionality (compilers or coordinators)

## Intent Compilation and Coordination



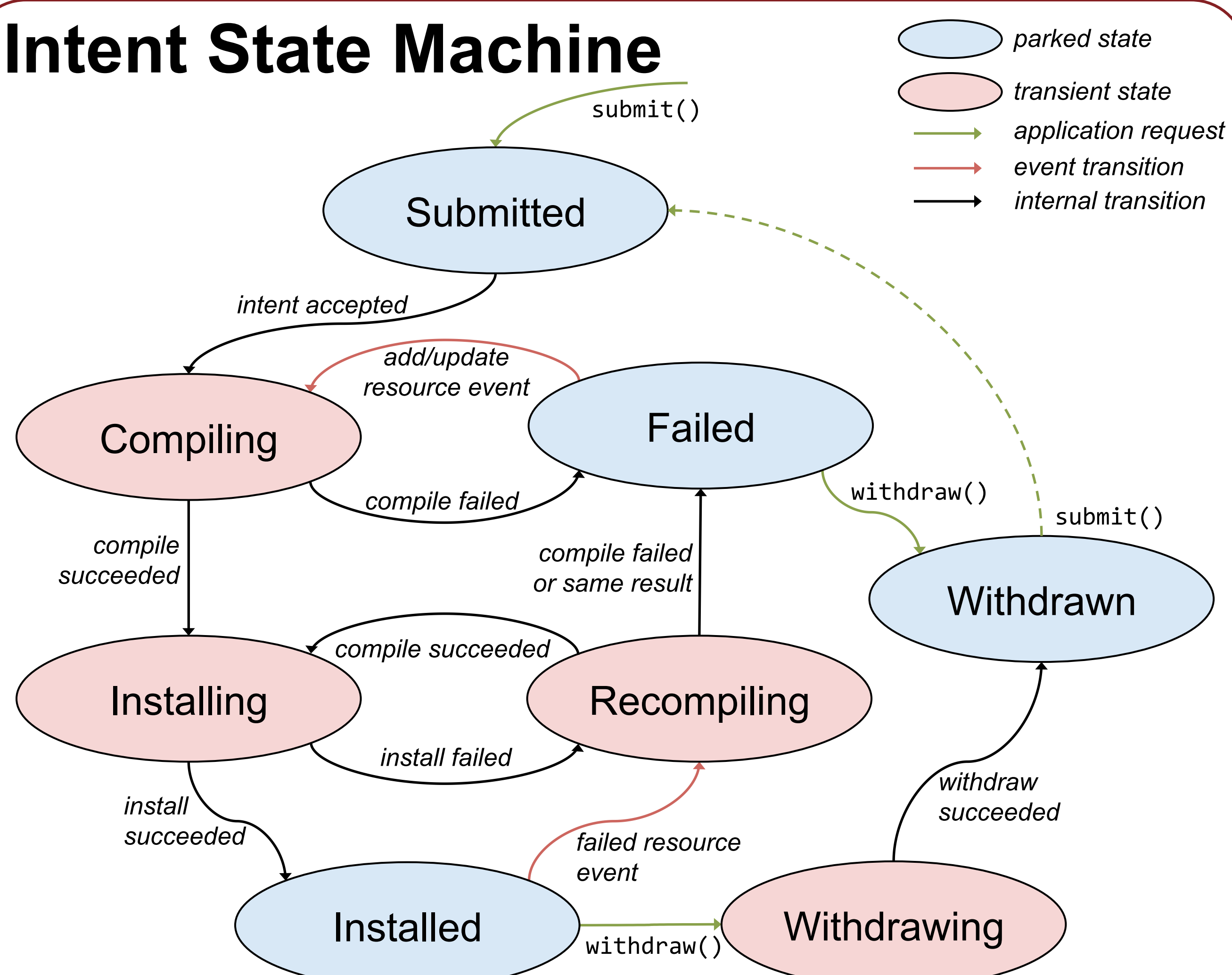
## Intent Compilers

- Translate intents into other intents that are more specific to the network environment
- (Recursively) Produce Intents that are installable into the network

## Intent Coordinators

- Determine how the network must be programmed at a device/resource level
- Reserve resources as required
- Plan the order of installation of device instructions

## Intent State Machine



## Intent Framework Architecture

