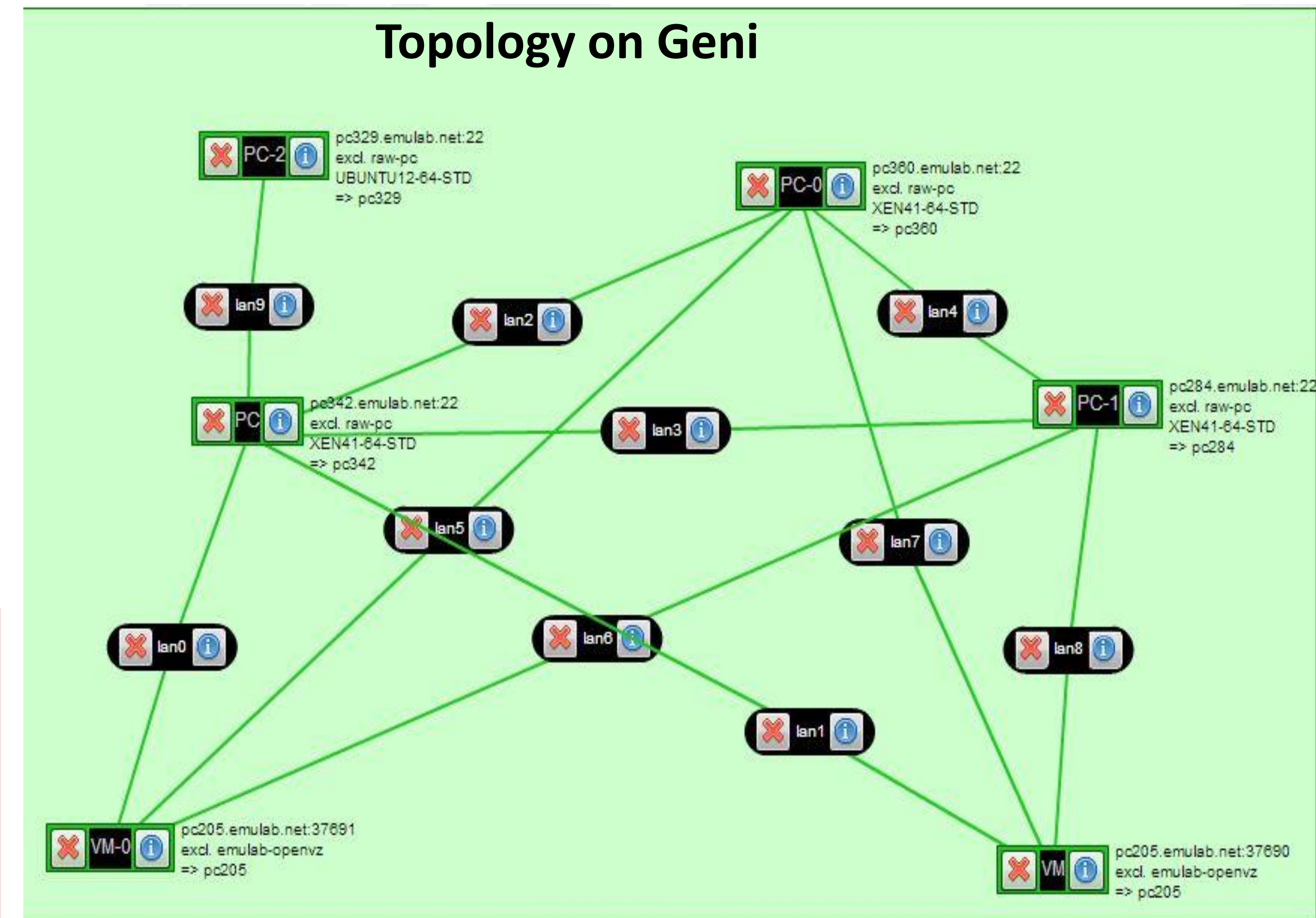


Distributed OpenFlow Switches with Fault Tolerance

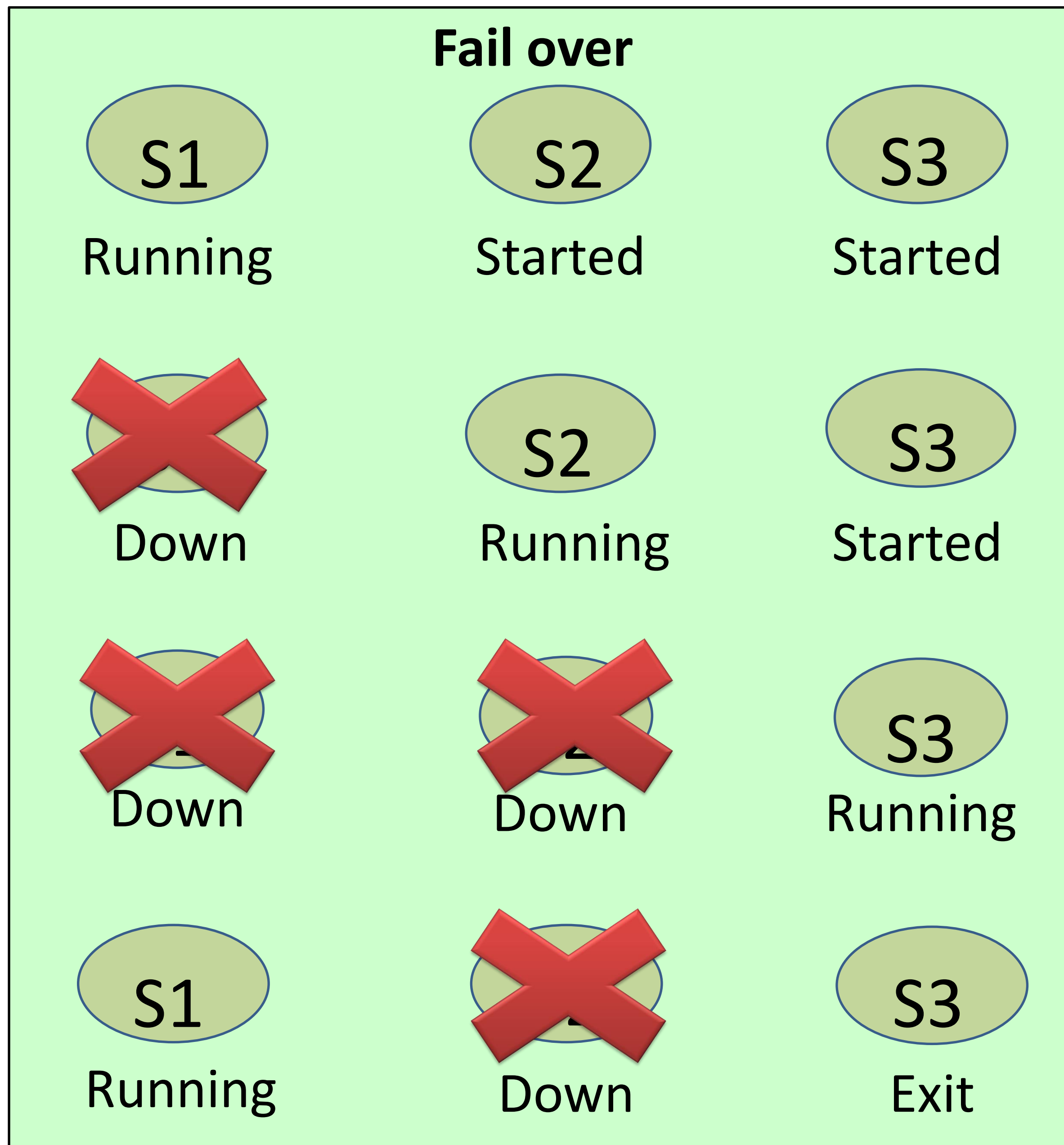
Gandhimathi Velusamy and Deniz Gurkan

LINC Switch

- LINC is a complete Open Flow software switch.
- Supports Open Flow- 1.2, OpenFlow-1.3.1 specifications.
- Supports OFConfig 1.1.1 Management Protocol
- It is written in functional concurrent programming language.
- It is implemented in operating system 's user space as a Erlang node.



Net_kernel module monitors network connection between nodes



Kernel Configuration

```
{kernel,
  [{distributed, [{linc, 5000, ['linc@pc', 'linc@pc-0', 'linc@pc-1']}],
  {sync_nodes_mandatory, ['linc@pc', 'linc@pc-0']},
  {sync_nodes_optinal, ['linc@pc-0']},
  {sync_nodes_timeout, 30000}
  ]}
```

Acknowledgment
Special thanks to Dr. Sandhya Narayan (of Infoblox Inc.) for the helpful discussions on the take-over case in distributed LINC switches.

LINC switch, more info at:
 FLOWFORWARDING.ORG

Project sponsored by