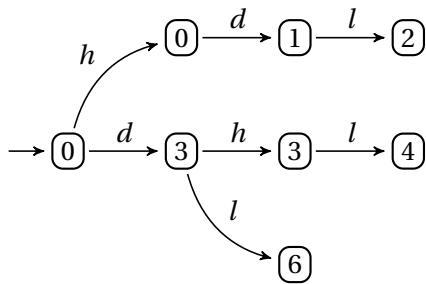


## Lecture Session 13: February 9, 2021

### IP-Security Example I



policy:  $H \rightarrow D \rightarrow L$

- $\alpha_1 = dhl$
- $\alpha_2 = dl$
- $s$  initial state
- $\text{obs}_L(s \cdot \alpha_1) = 4, \text{obs}_L(s \cdot \alpha_2) = 6$
- to show that the system is insecure: prove that  $\text{ipurge}_L(\alpha_1) = \text{ipurge}_L(\alpha_2)$ .

sources:

- $\text{sources}_L(e) = L$
- $\text{sources}_L(l) = \{L\}$
- $\text{sources}_L(dl) = \{D, L\}$
- $\text{sources}_L(hl) = \{L\}$
- $\text{sources}_L(hdl) = \{H, D, L\}$
- $\text{sources}_L(dhl) = \{D, L\}$

ipurge values:

- $\text{ipurge}_L(dhl) = dl$  (this is  $\alpha_1$ )
- $\text{ipurge}_L(dl) = dl$  (this is  $\alpha_2$ )