The state of data center network automation

Operational complexity and siloed technology/operations are the biggest barriers to data center automation.

Level of data center network automation is low across all segments

Operational complexity and siloed technology/operations are the biggest barriers to data center automation.

Notable trends

- CSPs ENTERPRISES CLOUD PROVIDERS
  - Average level of automation achieved in Day 0,1 and 2+ operations
    - CSPs
    - 27%
    - ENTERPRISES
    - 37%
    - CLOUD PROVIDERS
    - 44%

- CSPs ENTERPRISES CLOUD PROVIDERS
  - Level of effort by network engineers
    - Very high
    - Medium
    - Low

- CSPs ENTERPRISES CLOUD PROVIDERS
  - Frequency of creating/adjusting scripts
    - Every 3-6 months
    - Daily

- CSPs ENTERPRISES CLOUD PROVIDERS
  - Level of automation
    - 0-10%
    - 11-25%
    - 35-40%
    - 51-75%
    - 76-100%

- CSPs ENTERPRISES CLOUD PROVIDERS
  - DC budget dedicated to DIY automation
    - 0%
    - 11-25%
    - 26-50%
    - 51-75%
    - 76-100%

- CSPs ENTERPRISES CLOUD PROVIDERS
  - % of staff writing their own scripts
    - CSPs
    - 38%
    - ENTERPRISES
    - 42%
    - CLOUD PROVIDERS
    - 49%

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For further insights into this study, please see these reports:

- CSPs' DIY data center network automation: key motivations, challenges and true costs of in-house built automation
- Cloud providers' DIY data center network automation: key motivations, challenges and true costs of in-house built automation
- Enterprises' DIY data center network automation: key motivations, challenges and true costs of in-house built automation