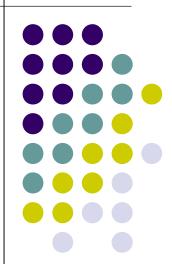
New Management Challenges in Virtualized Data Center

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Policies and Dynamic Information migration Source Destination power-on Individual destination VM Enterprise WAN client client acceleration VM running on the source WAN pre-copy memory state **VMotion** abortable checkpoint-save src VM and transfer state FW transfer remaining VM not running changed memory and ion1 Acceleration: checkpoint-restore dst VM GSLB2, SLB2 send restore OK power-off VM running source VM on the destination

Dynamic Information may include any non-configured information generated by any devices, e.g. :

Server

* figure not proportional!

- TCP Connection Table
- Dynamic ACL

~1 sec

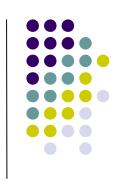
- Cumulative Data
- Statistical Data, etc

Challenges



- Key components for DI migration
 - When? DI is sensitive to time; Migration system need to know the time when VM stops running;
 - Where? need to know the souce and destination devices;
 - How: existing NM doesn't cover, need a new mechanism.

Discussion



- Do you think this is a problem that we need/want to solve in OPSAWG
- Do we need to develop additional protocols?