

1 CheatSheet: IT Infrastructure Fundamentals

VMWARE

- PDF Link: [cheatsheet-infra-A4.pdf](#), Category: Infra
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-infra-A4>
- Related posts: PKS CheatSheet, Cloudfoundry CheatSheet, [#denny-cheatsheets](#)

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1.1 Basic Concepts

| Name | Command |
|-------------------------------------|--|
| Reference | VMware CheatSheet, IBM CheatSheet, Cloudfoundry CheatSheet |
| Domains | SDDC, Hybrid Cloud Computing, End-User Computing(EUC) |
| SDDC(Software designed data center) | Compute, Storage and Availability, Network and Security, Cloud Management and Automation |
| VMware vMotion | Live Migration of Virtual Machines |
| DRS(Distributed Resource Scheduler) | |
| NUMA(Non-uniform memory access) | |
| VMware vm disk | a file format describes containers for virtual hard disk drives to be used by VMware |
| Greenfield vs Brownfield | Brownfield Development happens when improving an existing application |
| Hyper Converged Infrastructure | all-in-one virtualization solutions that integrate compute and software-defined storage |
| Airgap deployment | Electrically disconnected (with a conceptual air gap) from all other networks |
| Co-located | To locate or be located at the same env |
| Separation of concerns | Different roles have different focus or use cases |
| Thin Provisioning | |
| Static Provisioning | |
| Turnkey Solution | |
| Lifecycle Management | |
| Operational Efficiency | |
| Developer Productivity | |
| Conformance and Compatibility | |
| Governance | |
| Trial-and-error methods | |
| Feature toggle | |
| Data breach | |
| Bootstrap issue | |
| Storage locality | |
| Fault domain | |
| Operational responsibility | |

1.2 Operations Per Stages

| Name | Command |
|-----------|-----------------------------|
| Day 0 | Install |
| Day 1 | Configure & Operate |
| Day 2 | Optimize, Compliance |
| Reference | Link: VMware infrastructure |

<https://raw.githubusercontent.com/dennyzhang/cheatsheet.dennyzhang.com/master/cheatsheet-infra-A4/day2ops.png>

1.3 Common Thinking Workflow/Questions

| Name | Command |
|---|---|
| How often customers may bump into the issues/slowness? | |
| Newly created clusters vs existing clusters? | |
| I know the issue, but is now the good timing to solve it? | |
| What if XXX get compromised? | |
| When the errors happen? | In provision; After provision; During upgrade |
| Normal path works; Customization won't work | |
| Whether customers are easy to maintain? | |

1.4 More Resources

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