[day-18] Puppet - monitoring

> Puppet module generate edu-new
  → Gemfile
  → Rel
  → manifests → init.pp → all (when you execute this module in future it will get executed)
  (write all code inside this file)

> vi init.PP (Create a file in

@example ~~class { 'new'~~
class new {
→ file { '/tmp/module_test':
  content => " this file is from module";
  mode => '0644'
}
file { '/tmp/module_test':

← this file execute & create file on tmp location

[Create a file in /tmp]

→ empty class new {
} → [module is created.]

> Sudo puppet module build new [Build as a module now]

cd new/ → /new/pkg/ edu-new-0.1.0.0. (module is ready & Build) → [package it]

> puppet module install ./edu-new-0.1.0.tar.gz

new/new/Pkg #

→ { Build New module }

/etc/ puppet / code/ environments/ Production/ (modules)

> new (module created)

inside manifest

node default {
include new → {class-name}
}

[module name]

/production/ manifest

node vi site.pp
{
node default {
include new
}
}

> Puppet forge & Ansible - Galaxy.

*

- What
- Why
- How

Monitoring

→ System is healthy. System is proper.
→ Avoid unseen problem.
→ to ~~mon~~ check CPU Utilization (Before system goes down)

→ disk space,
→ ...

1. Host level

(monitoring

1. Host Level monitoring - how is it behaving?
   - memory, CPU, disk Space
   - RAM Utilization
   [OS Level]

ping Command →

2. Process Level monitoring - things run system software
   (UP & Running)
   - jenkins, docker, kuber.
   [tool soft. installed app server.
   on OS]
   [ps -ef | grep tomcat] - docker ps [all process contains Port No.]

Port No. check

3. Application monitoring - application deployed working fine or not.

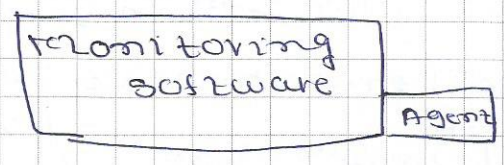
Process Level check
- → [process Runs, they Run on certain Ports.]
- → Port is Running or other thing (telnet or other)
  [Process Level monitoring]

[App. Level monitoring check]

[Launching URL Not a problem]

4. Check app. - URL (how to check continously)

→ monitoring tool have capability for [1. host 2. Process 3. Applicati



→ Wily
Sitescope
Nagios
dyna
Prome.
manage engine
splunk (log aggregator, they analys, reactive)
→ [Proactive] → House on Fire
(smoke detector)
→ [90% CPU utilize] something is happened already.
404 issue, disk Fased. once event done then you see data.

→ Nagios → monitoring tool.
CORE (older Nokia generation)
XI → all critical monitory.
app, services, operations, systems
→ application
→ Services
→ operating System.

→ Nagios XI - (60 days trial)

↳ Ready use VM image (docker image, docker container)

→ 4GB machine AWS. (t2.medium)

Configure Security group (create instance)

> ssh → git https .... docker.sh

./ install-docker.sh

/ labs/ docker/ install → Nagios image downloads

→ monitoring → alerting mechanism.

lead.devops/ nagios:v1

> docker ps → 80 (Port number)

Access Nagios (page)

↳ username: admin
password: admin
timezone:

→ Home

→ Host Summery

1 (Local host)
Up & Running

→ Create your own dashboard.

→ LDAP, Linux, mssql Server, Postgres db.

→ Host, Process and application.

IP address 3.22.222.18
Operating System ☐
Hostname : [redacted]

> download Agent (NRPE agent, Agent installation on node)

* Agent Installation

ssh -i → wget ... (tar file)
tar xzf xyz.tar.gz
cd linux-nrpe-agent.tar.gz

agent/ ./ fullInstall (it will setup Agents & Run it)

allow from: 0.0.0.0/0

↳ from every connection or Nagios Server ip

Server metrics Services Process.

↳ Ping ↳ CPU
↳ Load ↳ memory

↳ every 5 minutes (poll the data from server)

↳ host & service every 1 minutes

> Host check

↳ force an immediate check
↳ Ping this host.

↳ Send an email, generate Report

Average Host availability chee

* Node

↳ apt-get install apache2. (monitor ← Apache this from Nagios)

→ monitor Apache → Nagios → configure - Configure wizard

{TCP/~~UDP~~ port monitoring}

→ Server address — 3.22.222.38 (Server address)

↳ what port, you want to monitor.

80 → Next → Finish.

→ configuration applied successfully.

Service check → {Force an immediate check}

* Admin → LDAP / AD Integration
— Notification management.

* dashboard (configuration wizard)

URL / web ~~se~~ site monitoring)

website URL: // http://google.com

* Configure manager (Service management)
→ CPU statics

* Selenium AWS (CI/CD → cloud)