

EPAM Systems, RD Dep., RD Dep.

MTN.NIX.05.Zabbix.Basics

REVISION HISTORY					
Ver.	Description of Change	Author	Date	Approved	
				Name	Effective Date
1.0	Initial Version	Siarhei Beliakou	23/May/2017		

Task. Zabbix. Basics

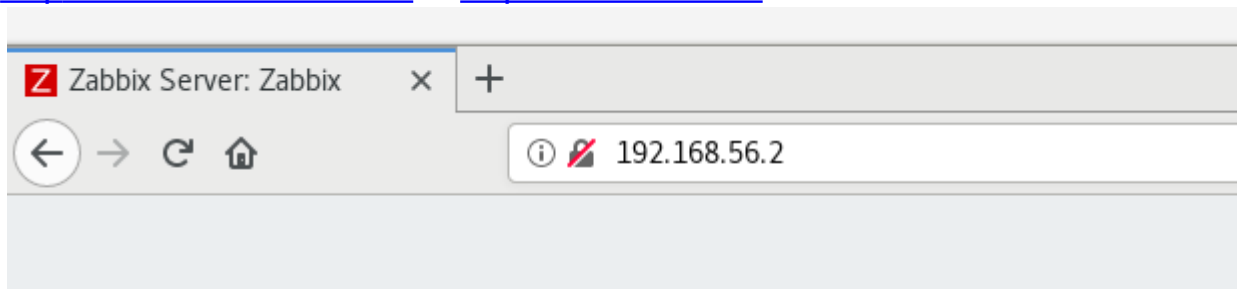
Testing Infrastructure:

Vagrantfile to spin up 2 VMs (virtualbox):

- zabbix server, provisioned by Vagrant provisioner
- Zabbix agents on both VMs, provisioned by Vagrant provisioner

Configure zabbix to work on the server directly without /zabbix

<http://zabbix-server/zabbix> -> <http://zabbix-server>



Task:

You should install and configure Zabbix server and agents.

1. Using Zabbix UI:

- Create User group “Project Owners”
- Create User (example “Siarhei Beliakou”), assign user to “Project Owners”, set email

<input type="checkbox"/> Project Owners	Users 1	OreshekBob (Raman Bahatyrou)
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Type	Send to	When active	Use if severity
Email	morbid98@list.ru	1-7,00:00-24:00	NIWAHD
Add			

- Add 2nd VM to zabbix: create Host group (“Project Hosts”), create Host in this group, enable ZABBIX Agent monitoring

<input type="checkbox"/> Project Hosts	Hosts 1	Templates	Oreshek
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- Assign to this host template of Linux

Name	Applications	Items	Triggers	Graphs	Discovery	Web	Interface	Templates
Oreshek	Applications 10	Items 49	Triggers 19	Graphs 9	Discovery 2	Web	192.168.56.3: 10050	Template OS Linux (Template App Zabbix Agent)
Zabbix server	Applications 11	Items 78	Triggers 47	Graphs 14	Discovery 2	Web	127.0.0.1: 10050	Template App Zabbix Server, Template OS Linux (Template App Zabbix Agent)

- Create custom checks (CPU Load, Memory load, Free space on file systems, Network load)

Free space unit already exists, so there is no need to create another one

Wizard	Name ▲	Triggers	Key	Interval	History	Trends	Type	Applications	Status	Info
	CPU LoadAverage (avg1)		system.cpu.load[avg1]	30s	90d	365d	Zabbix agent	CPU, Performance	Enabled	
	Memory Load (max)		proc.mem[]	30s	90d	365d	Zabbix agent	Memory, Performance, Processes	Enabled	
	Net Load		net.if.total[enp0s3]	30s	90d	365d	Zabbix agent	Network interfaces	Enabled	

- Create trigger with Severity HIGH, check if it works (Problem/Recovery)

Time ▼	Severity	Recovery time	Status	Info	Host	Problem
7:52:41	High				Oreshok	IMPORTANT TRIGGER

- Create Action to inform “Project Owners” if HIGH triggers happen

Actions

Action
Operations
Recovery operations

Default operation step duration
3600 (minimum 60 seconds)

Default subject
{TRIGGER.STATUS}: {TRIGGER.NAME}

Default message
Trigger: {TRIGGER.NAME}
Trigger status: {TRIGGER.STATUS}
Trigger severity: {TRIGGER.SEVERITY}
Trigger URL: {TRIGGER.URL}

Item values:
1. {ITEM.NAME1} ({HOST.NAME1}:{ITEM.KEY1}): {ITEM.VALUE1}

Pause operations while in maintenance
☒

Operations

Steps
Details
Start in
Duration (sec)
Action

1	Send message to user groups: Project Owners via Milo	Immediately	Default	Edit Remove
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[New](#)

Update
Clone
Delete
Cancel

For both VMs use vagrant box “sbeliakou/centos-7.3-x86_64-minimal”

2. Using Zabbix UI:

- Configure “Network discovery” so that, 2nd VM will be joined to Zabbix (group “Project Hosts”, Template “Template OS Linux”)

Name ▲	Applications	Items	Triggers	Graphs	Discovery	Web	Interface	Templates	Status	Availability	Agent encryption
192.168.56.3	Applications 10	Items 32	Triggers 15	Graphs 5	Discovery 2	Web	192.168.56.3: 10050	Template OS Linux (Template App Zabbix Agent)	Enabled	ZBX SHMP JMX IPMI	NONE
Zabbix server	Applications 11	Items 64	Triggers 43	Graphs 10	Discovery 2	Web	127.0.0.1: 10050	Template App Zabbix Server, Template OS Linux (Template App Zabbix Agent)	Enabled	ZBX SHMP JMX IPMI	NONE

Displaying 2

Discovered device ▲

Monitored host

Looking for agents in 56 subnet (1 device)

192.168.56.3

192.168.56.3

For both VMs use vagrant box “sbeliakou/centos-7.3-x86_64-minimal”