VMware IOInsight

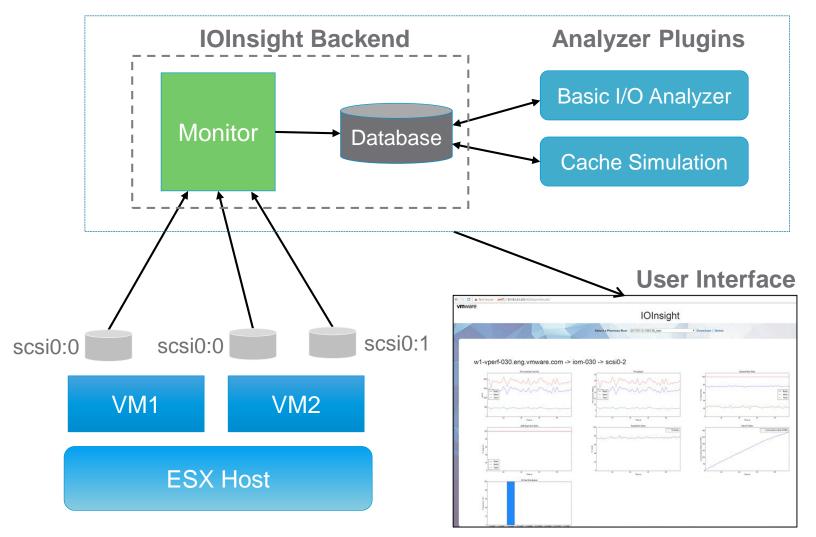
v1.1.1 User Guide





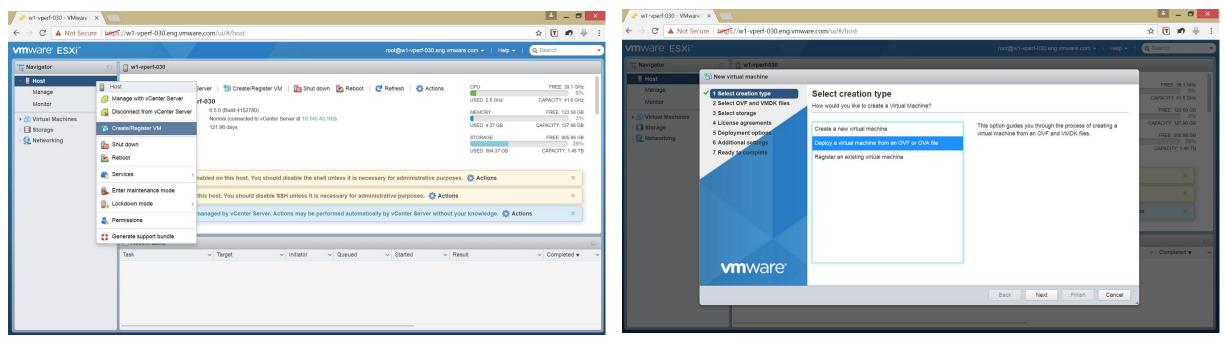
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IOInsight – Architecture



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Deploying IOInsight Virtual Appliance



- 1. In vSphere web client, right click on the host and select "Create/Register VM"
- 2. Select option "Deploy a virtual machine from an OVF or OVA file"
- 3. Follow steps in the Wizard to select the downloaded ova, complete the deployment and power on VM
- 4. Network settings (optional) from commandline. Default password for 'root' user is 'changeme'
- 5. Access IOInsight via URL: https://<IP-address-of-vm>

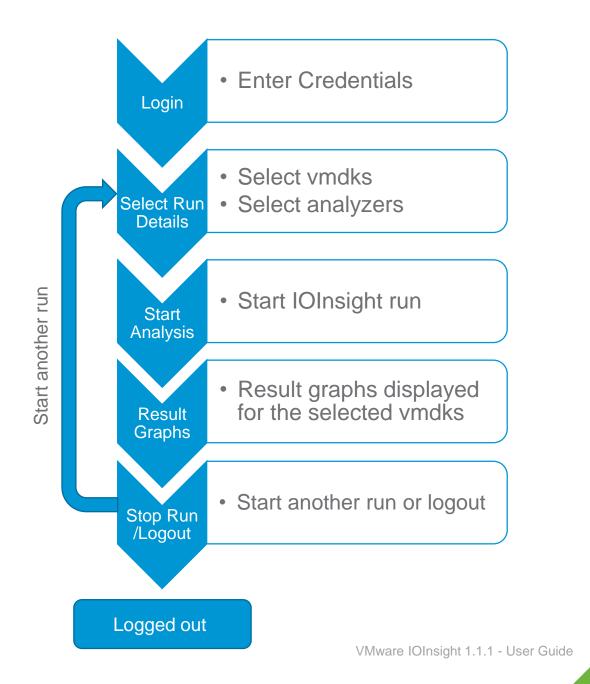
Network Configuration (Optional)

- IOInsight is configured with DHCP by default
- Use the following commandline utility to change the default network settings:

```
root@IOInsight [ ~ ]# ioinsight nwcfg
[Network Setup Wizard]
Please select which configuration you would like to change.
Enter option [dhcp | static | ntp | exit]:
```

- Options
 - dhcp : Configures eth0 for DHCP
 - static : Configure eth0 with static IP. Enter IP address, default gateway and DNS (optional)
 - ntp : Use this option if you would like to override default ntp servers
 - exit : Quit network setup script
- DNS nameserver setting is part of static IP configuration
- For advanced settings not provided by this utility, please refer Photon Administration guide: <u>https://github.com/vmware/photon/blob/master/docs/photon-admin-guide.md</u>

UI Workflow



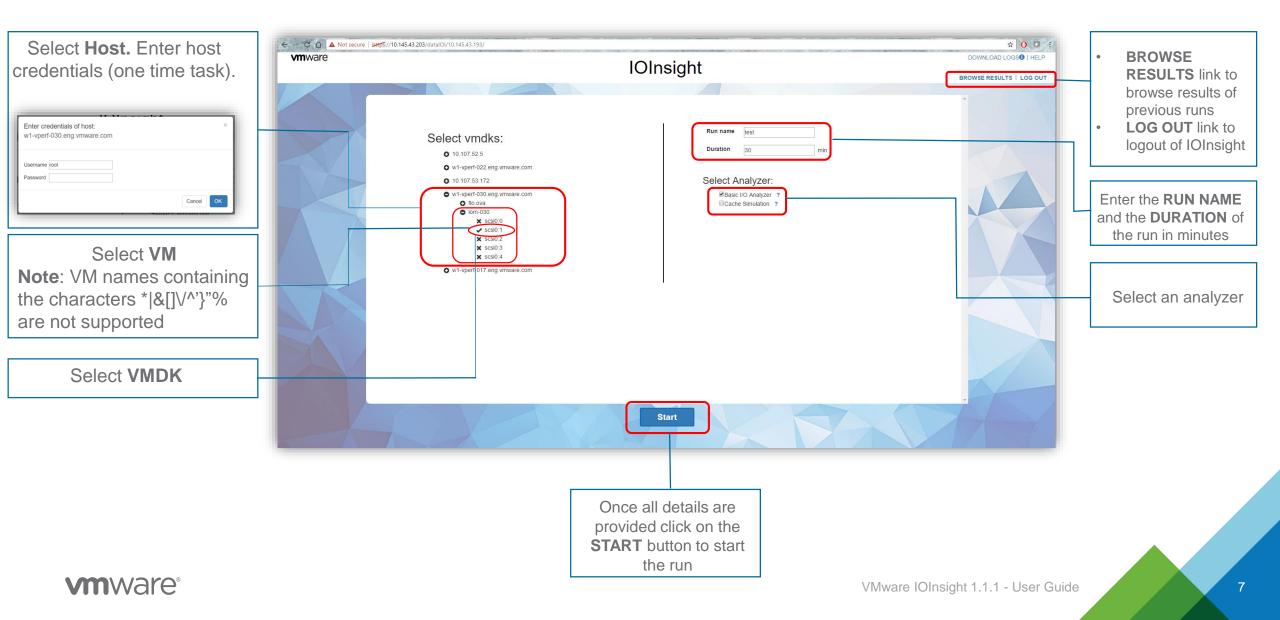
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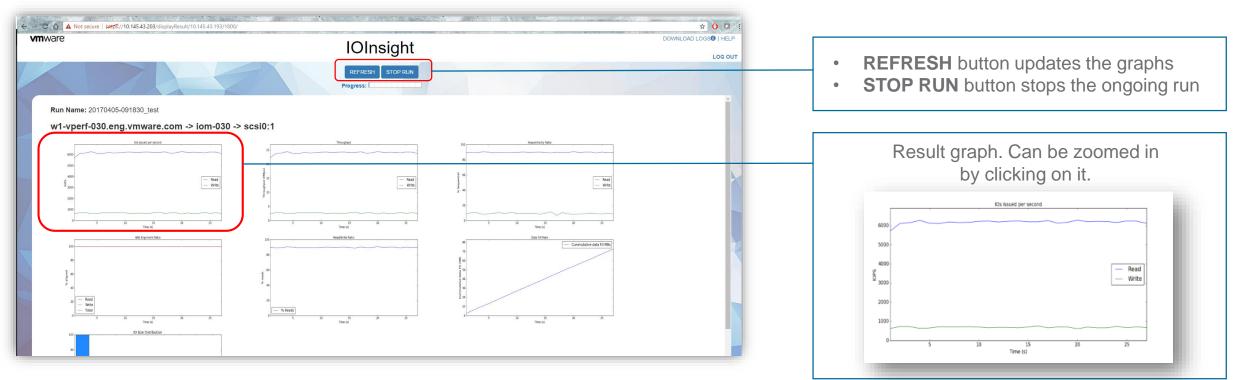
Supported Browsers: Google Chrome, Apple Safari

URL is of the form:-https:// <vm_ip> (Please note that it should be https)</vm_ip>	 BROWSE RESULTS leads to a page to browse results of previous runs HELP provides links to user guides DOWNLOAD LOGS downloads the log files which then can be mailed to <i>ioinsight@vmware.com</i> for troubleshooting Login credentials include: VC IP Username Password
Once all login credentials are entered, click on the LOGIN button	VMware IOInsight 1.1.1 - User Guide

Selecting Run Details



Result Visualization



- First set of result graphs are generated 30 seconds after starting a run. If results are not available at that time, it retries with 30s interval until results are available or exceeds 5mins without any result
- At the end of run duration, final results graphs for the entire duration is generated
- Results are grouped based on VMDKs (Title format: HOST -> VM -> VMDK)

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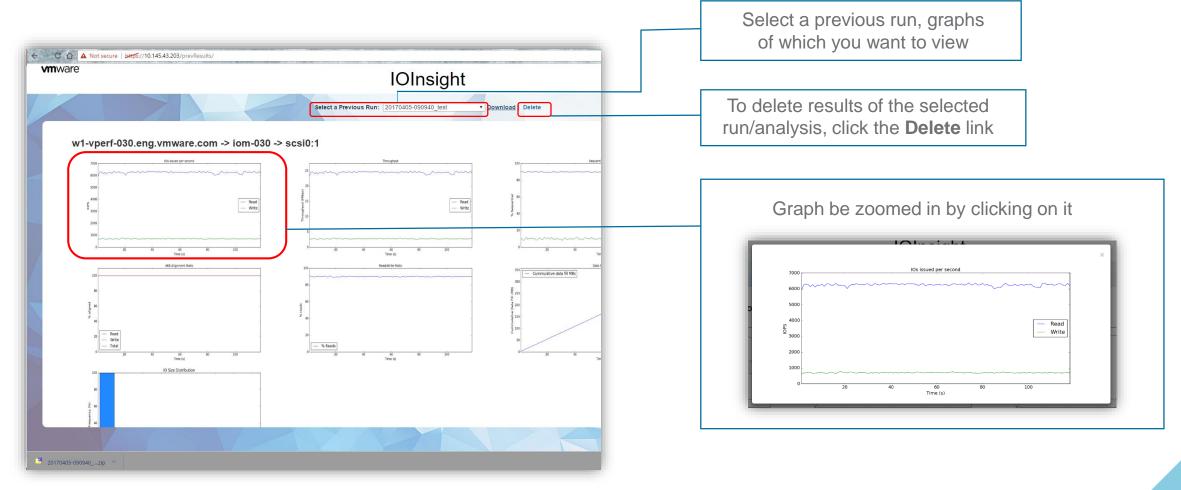
Result Visualization (contd.)

Once a run is completed/stopped, result graphs can be downloaded or can start a new run.



Browse Previous Results

BROWSE RESULTS link lead to this webpage.



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Best Practices

- IOInsight VM Configuration
 - vCPUs : Minimum 2, 4 if analyzers with heavy processing are added
 - Provisioned memory: >= 2GB
 - IOInsight VM should be ideally deployed in the same/closer network as the hosts being monitored.
 Otherwise, larger RTTs can result in slower response times
- Analysis/Run Configuration
 - We recommend selecting < 8 VMDKs for a single run as large number of parallel monitoring can result in high overhead, especially if IOPS is very high for those VMDKs
 - Recommended analysis duration is at least 10min (default: 30min)
 - Cache Simulation analyzer is CPU-intensive. We recommend running cache simulation for 1 or 2 cache configurations at a time for better performance. Increase the number of VCPUs for more parallel configurations.

REFERENCE

IOInsight Community Page

https://communities.vmware.com/community/vmtn/performance/vmware-ioinsight

• IOInsight Flings Website

https://labs.vmware.com/flings/ioinsight

• IOInsight Detailed User Manual can be downloaded from HELP page in IOInsight appliance