# **VMware IOInsight**

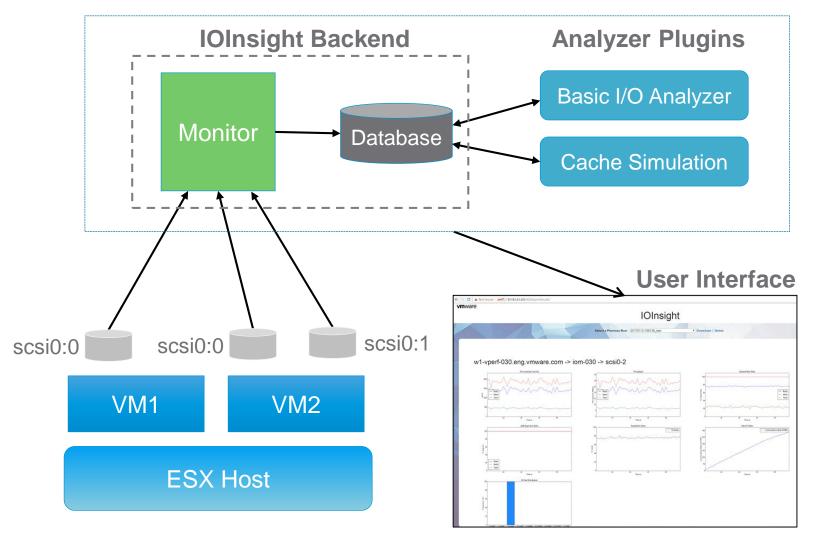
v1.1.1 User Guide





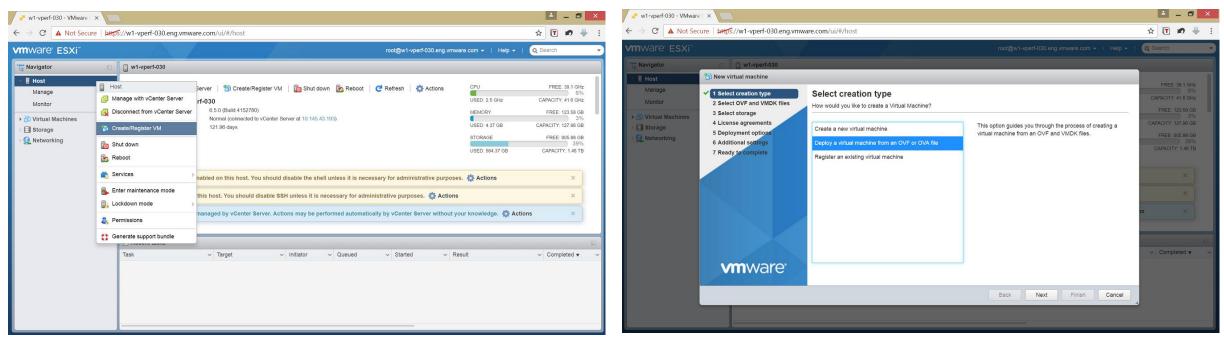
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### **IOInsight – Architecture**



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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>

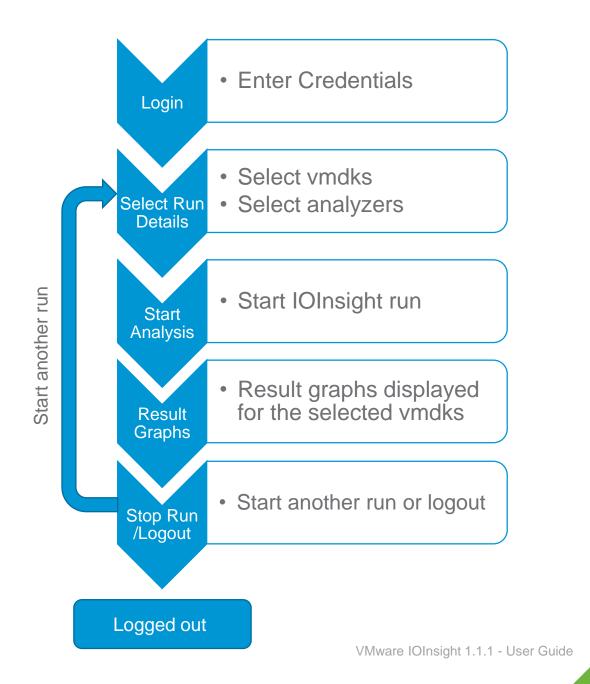
# **Network Configuration (Optional)**

- 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**



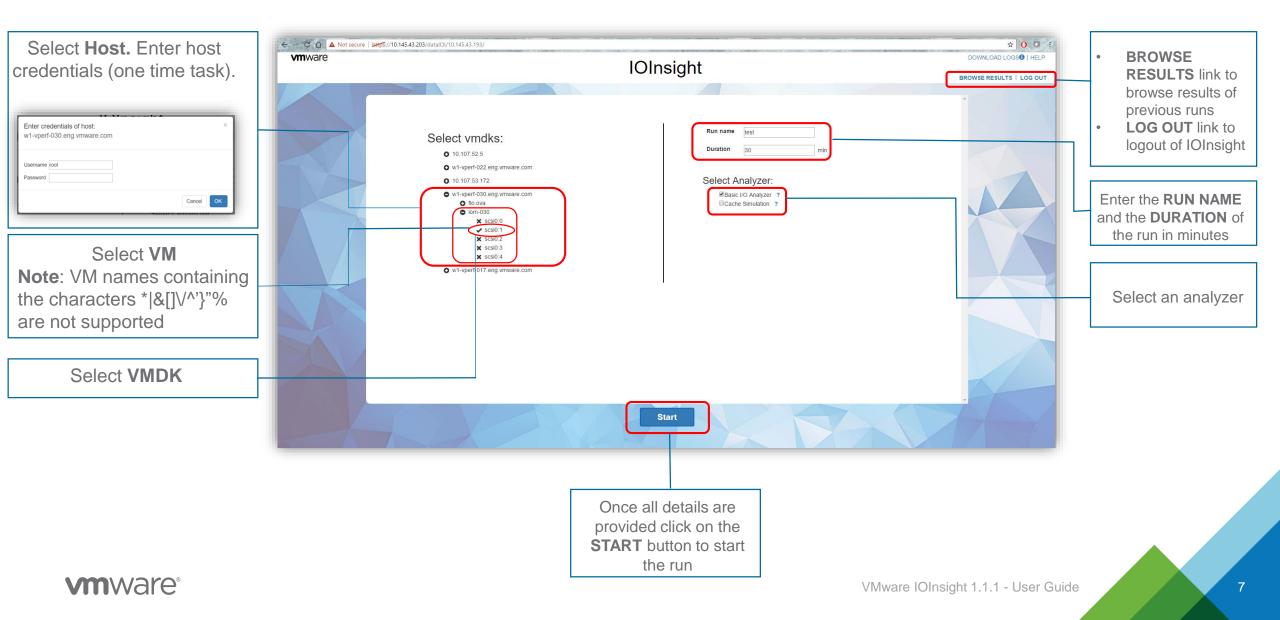
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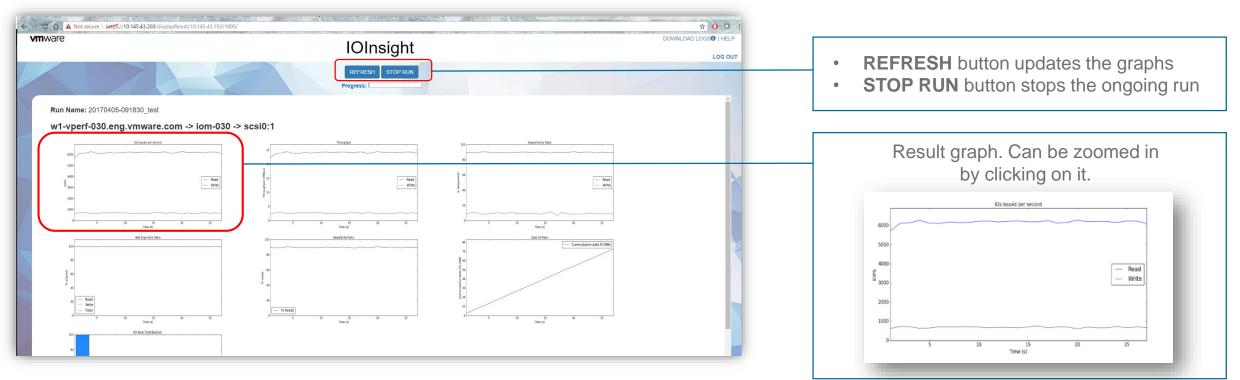
#### Supported Browsers: Google Chrome, Apple Safari

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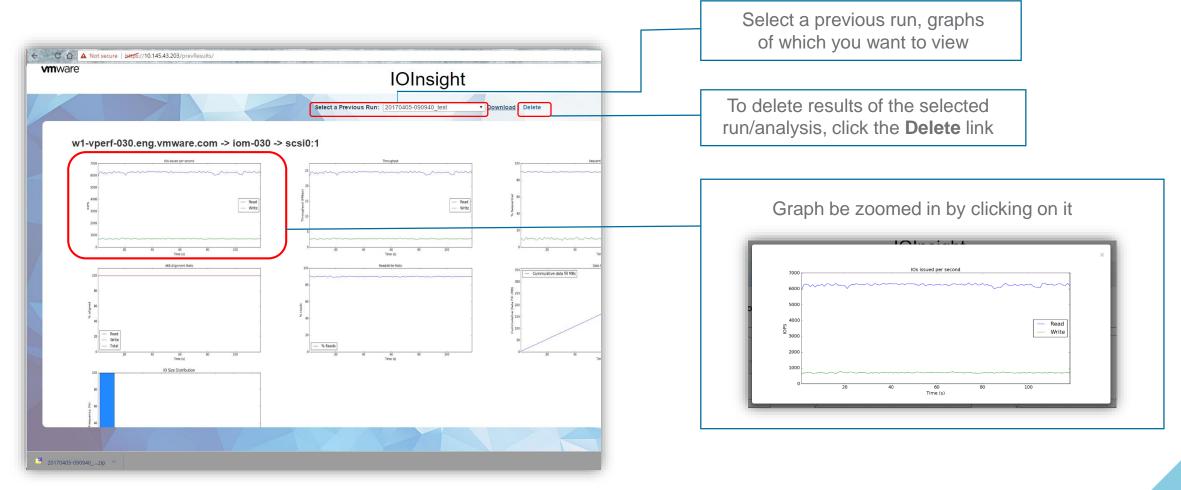
### **Result Visualization (contd.)**

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