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/**
 * Created by Alain Dechornat on 12/13/13.
 */

var StatusApp = angular.module('StatusApp',
  ['D3Directives','ngCookies','ngAnimate','InkscopeCommons'])
  .filter('bytes', funcBytesFilter)
  .filter('duration', funcDurationFilter);

StatusApp.controller("statusCtrl", function ($rootScope, $scope,
$http , $cookieStore) {
  $scope.journal = [];
  $scope.osdControl =0;
  $scope.statOK = true;

  $scope.refreshPG = true;
  $scope.refreshPGcontrolClass = "icon-pause";

  $scope.viewControlPanel = false;
  $scope.viewMonitorModule = testAndSetCookie
('viewMonitorModule',true);
  $scope.viewCapacityModule = testAndSetCookie
('viewCapacityModule',true);
  $scope.viewPoolModule = testAndSetCookie
('viewPoolModule',true);
  $scope.viewOsdModule = testAndSetCookie
('viewOsdModule',true);
  $scope.viewPgStatusModule = testAndSetCookie
('viewPgStatusModule',true);
  $scope.viewMdsModule = testAndSetCookie
('viewMdsModule',true);

  function testAndSetCookie(param,defaultValue) {
    var value = $cookieStore.get(param);
    if (typeof value ==="undefined") {
      $cookieStore.put(param,defaultValue);
      value = defaultValue;
    }
    return value;
  }

  // instantiate our graph!
  var graph = new Rickshaw.Graph( {
    element: document.getElementById("iopschart"),
    width: 300,
    height: 30,
    renderer: 'line',
    series: new Rickshaw.Series.FixedDuration([ { name: 'read'
}, { name: 'write' }, { name: 'recovery' } ]), undefined, {
    timeInterval: 3000,
    maxDataPoints: 100,
    timeBase: new Date().getTime() / 1000

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    })
  });
var hoverDetail = new Rickshaw.Graph.HoverDetail( {
  graph: graph,
  xFormatter: function(x) { return  ""; },
  yFormatter: function(y) { return  funcBytes(y)+ "/s" ;}
});
var yAxis = new Rickshaw.Graph.Axis.Y({
  graph: graph,
  height: 30,
  orientation: 'left',
  tickFormat: Rickshaw.Fixtures.Number.formatKMBT,
  element: document.getElementById('y_axis')
});
yAxis.render();
graph.render();

//refresh data every x seconds
refreshData();
refreshPGData();
setInterval(function () {
  refreshData()
}, 5 * 1000);
setInterval(function () {
  refreshPGData()
}, 10 * 1000);

// start refreshOSDData when fsid is available
var waitForFsid = function ($rootScope, $http,$scope){
  typeof $rootScope.fsid !== "undefined"? startRefresh
($rootScope, $http,$scope) : setTimeout(function () {waitForFsid
($rootScope, $http,$scope)}, 1000);
  function startRefresh($rootScope, $http,$scope){
    refreshOSDData();
    setInterval(function () {
      refreshOSDData()
    }, 5 * 1000);
  }
}
waitForFsid($rootScope, $http,$scope);

function refreshPGData() {
  $scope.date = new Date();
  $http({method: "get", url: cephRestApiURL +
"df.json",timeout:8000})
    .success(function (data, status) {
      $scope.nbPools = data.output.pools.length;;
    });
  $http({method: "get", url: cephRestApiURL +

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"pg/dump_stuck.json",timeout:8000})
    .success(function (data, status) {
        // fetching stuck pg list
        var pg_stats = data.output;
        var pools = [];
        for (var i = 0; i < pg_stats.length; i++) {
            var pg = pg_stats[i];
            //console.log(pg.pgid + " : " + pg.state)
            var numPool = pg.pgid.split(".")[0];
            pools[numPool] = false;
        }
        var cnt = 0;
        for (var i = 0; i < pools.length; i++) {
            if (typeof pools[i] !== "undefined") {
                ++cnt;
            }
        }
        $scope.uncleanPools = cnt;
        if (typeof $scope.nbPools !== "undefined")
    $scope.cleanPools = $scope.nbPools -cnt;
    });

};

function refreshOSDData() {
    $scope.date = new Date();
    var filter = {
        "$select":{},
        "$template":{
            "stat":1
        }
    }
    $http({method: "post", url: inkscopeCtrlURL +
    $rootScope.fsid+"/osd", params :{"depth":1}
    ,data:filter,timeout:4000})
    .success(function (data, status) {
        if (data[0].stat == null)
            $scope.osdControl = "-";
        else
            $scope.osdControl = ((+$scope.date)-data
    [0].stat.timestamp)/1000 ;
        $scope.osdsInUp = 0;
        $scope.osdsInDown = 0;
        $scope.osdsOutUp = 0;
        $scope.osdsOutDown = 0;
        $scope.statOK = true;
        for (var i = 0; i < data.length; i++) {
            if (!data[i].lost) {
                if (data[i].stat ==null){
                    console.error("missing stat for
    "+data[i].node.name);
                }
                $scope.statOK = false;
            }
        }
    });
}

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                else {
                    if (data[i].stat.in) {
                        if (data[i].stat.up)
$scope.osdsInUp++; else $scope.osdsInDown++;
                    }
                    else {
                        if (data[i].stat.up)
$scope.osdsOutUp++; else $scope.osdsOutDown++;
                    }
                }
            }
        }
    })
    .error (function (data, status){
        console.error("can't fetch osd info in mongo");
        $scope.statOK = false;
    });
};

function refreshData() {
    //console.log("refreshing data...");
    $scope.date = new Date();
    $http({method: "get", url: cephRestApiURL +
"status.json",timeout:4000})
        .success(function (data) {
            $scope.pgmap = data.output.pgmap;
            if ( typeof data.output.pgmap.degraded_objects
=== "undefined" ) $scope.pgmap.degraded_objects=0;

            //          $scope.mdsmap = data.output.mdsmap;
            //          $scope.mdsmap.up_standby = data.output.mdsmap
["up:standby"];
            if (typeof data.output.mdsmap !== "undefined"){
                $scope.mdsmap = data.output.mdsmap;
                $scope.mdsmap.up_standby = data.output.mdsmap
["up:standby"];
            }
            else {
                $scope.mdsmap = data.output.fsmap;
                $scope.mdsmap.up_standby = data.output.fsmap
["up:standby"];
            }

            $scope.percentUsed = $scope.pgmap.bytes_used /
$scope.pgmap.bytes_total;

            if ($scope.refreshPG) $scope.pgsByState =
$scope.pgmap.pgs_by_state;

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        $scope.read = (data.output.pgmap.read_bytes_sec ?
data.output.pgmap.read_bytes_sec : 0);
        $scope.write = (data.output.pgmap.write_bytes_sec
? data.output.pgmap.write_bytes_sec : 0);
        $scope.recovery =
(data.output.pgmap.recovering_bytes_per_sec ?
data.output.pgmap.recovering_bytes_per_sec : 0);

        var iopsdata = { read: $scope.read , write :
$scope.write , recovery : $scope.recovery };
        graph.series.addData(iopsdata);
        yAxis.render();
        graph.render();

        $scope.health = {};
        $scope.health.severity =
data.output.health.overall_status;
        // there may be several messages under
data.output.health.summary
        $scope.health.summary="";
        var i = 0;
        while(typeof data.output.health.summary[i] !==
"undefined"){
                if ($scope.health.summary!="")
$scope.health.summary+=" | ";
                $scope.health.summary +=
data.output.health.summary[i].summary;
                i++;
        }
        if ($scope.health.summary==""){
                if (data.output.health.detail[0])
                $scope.health.summary =
data.output.health.detail[0];
                else
                //remove HEALTH_ in severity
                $scope.health.summary =
$scope.health.severity.substring(7);
        }
        $rootScope.healthSeverity =
$scope.health.severity;
        historise();

        $scope.mons = data.output.monmap.mons;

        for (var i = 0; i < $scope.mons.length; i++) {
                var mon = $scope.mons[i];
                mon.health = "HEALTH_UNKNOWN"; // default for
styling purpose
                mon.quorum = "out"; // default for
styling purpose
                for (var j = 0; j <
data.output.quorum_names.length; j++) {

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        if (mon.name == data.output.quorum_names
[j]) {
            mon.quorum = "in";
            break
        }
    }
    if (data.output.health.timechecks.mons) //not
always defined
        for (var j = 0; j <
data.output.health.timechecks.mons.length; j++) {
            mon2 =
data.output.health.timechecks.mons[j];
            if (mon.name == mon2.name) {
                for (key in mon2) mon[key] = mon2
[key];
                break
            }
        }
    for (var j = 0; j <
data.output.health.health_services[0].mons.length; j++) {
        mon2 =
data.output.health.health_services[0].mons[j];
        if (mon.name == mon2.name) {
            for (key in mon2) {
                if ((key == "health") && (mon
[key]+" " != "undefined"))
                    mon[key] =healthCompare(mon
[key],mon2[key]);
                else
                    mon[key] = mon2[key];
            }
            break
        }
    }
}

function healthCompare(h1,h2){
    if ((h1 == "HEALTH_ERROR") || (h2 ==
"HEALTH_ERROR")) return "HEALTH_ERROR";
    if ((h1 == "HEALTH_WARN") || (h2 ==
"HEALTH_WARN")) return "HEALTH_WARN";
    if ((h1 == "HEALTH_OK") || (h2 == "HEALTH_OK"))
return "HEALTH_OK";
    return "HEALTH_UNKNOWN";
}

var osdmap = data.output.osdmap.osdmap;
$scope.osdsUp = osdmap.num_up_osds;
$scope.osdsIn = parseInt(osdmap.num_in_osds);
$scope.osdsOut = osdmap.num_osds -
osdmap.num_in_osds;
$scope.osdsDown = $scope.osdsIn - $scope.osdsUp +

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$scope.osdsOut;
    $scope.osdsNearFull = osdmap.nearfull?1:0;
    $scope.osdsFull = osdmap.full?1:0;
    })
    .error(function (data) {
        $scope.health = {};
        $scope.health.severity = "HEALTH_WARN";
        $scope.health.summary = "Status not available";
    });
}

$scope.refreshPGcontrol = function(){
    $scope.refreshPG = !$scope.refreshPG;
    if ($scope.refreshPG)
        $scope.refreshPGcontrolClass = "icon-pause";
    else
        $scope.refreshPGcontrolClass = "icon-play";
}

$scope.badgeClass = function (type, count) {
    if ((count == 0) || (count + "" == "undefined"))
        return "health_status_HEALTH_UNKNOWN mybadge";
    else
        return "health_status_HEALTH_" + type + " mybadge";
}

$scope.showModule = function(module,view){
    $cookieStore.put(module,view);
    $scope[module]=view;
}

$scope.getPgmapMessage=function(){
    if (typeof $scope.pgmap ==="undefined") return "";
    var message = "";
    if ((typeof $scope.pgmap.degraded_objects !=="undefined"
)&&($scope.pgmap.degraded_objects!=0)) {
        if (message != "") message += ", ";
        message += $scope.pgmap.degraded_objects + " objects
degraded on " + $scope.pgmap.degraded_total + " (" + (100 *
$scope.pgmap.degraded_objects /
$scope.pgmap.degraded_total).toFixed(3) + "%)";
    }
    if ((typeof $scope.pgmap.misplaced_objects !
=="undefined" )&&($scope.pgmap.misplaced_objects!=0)) {
        if (message != "") message += ", ";
        message += $scope.pgmap.misplaced_objects + " objects
misplaced on "+$scope.pgmap.misplaced_total +" (" + (100*
$scope.pgmap.misplaced_objects/
$scope.pgmap.misplaced_total).toFixed(3) + "%)";
    }
    return message;
}
}

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function historise() {
    if ($scope.last_health_summary + "" == "undefined") {
        $scope.last_health_summary = $scope.health.summary;
        $scope.journal.unshift({"date": new Date(),
"summary": $scope.health.summary});
        return;
    }
    if ($scope.last_health_summary != $scope.health.summary)
    {
        $scope.journal.unshift({"date": new Date(),
"summary": $scope.health.summary});
        $scope.last_health_summary = $scope.health.summary;
    }
}

});

StatusApp.controller('ModalDemoCtrl', function ($scope, $modal,
$log) {
    $scope.open = function (size) {

        var modalInstance = $modal.open({
            templateUrl: 'myModalContent.html',
            controller: 'ModalInstanceCtrl',
            size: size
        });

        modalInstance.result.then(function (selectedItem) {
            $scope.selected = selectedItem;
        }, function () {
            $log.info('Modal dismissed at: ' + new Date());
        });
    };
});

// Please note that $modalInstance represents a modal window
(instance) dependency.
// It is not the same as the $modal service used above.

StatusApp.controller('ModalInstanceCtrl', function ($scope,
$modalInstance, $http) {
    $scope.refresh = function () {
        $scope.details = ["fetching details ..."];
        $http({method: "get", url: cephRestApiURL + "health.json?
detail", timeout: 8000})
            .success(function (data, status) {
                $scope.details = data.output.detail;
                for (var i=0; i<$scope.details.length; i++){
                    var txt = $scope.details[i];
                    /(osd\[0-9\]+)/.exec(txt);
                    var osd = RegExp.$1;

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        if (osd != null) {
            txt = txt.replace(osd, "<a
href='osds.html?dispoMode=space&" + osd + "'>" + osd + "</a>");
        }
        /([0-9]+\.[0-9a-f]+)/.exec(txt);
        var id = RegExp.$1;
        if (id != null){
            //scope.details[i] = txt.replace(id, "<a
href='pg.html?id="+id+"'>" + id + "</a>");
            txt = txt.replace("pg "+id, "<a
href='../ceph-rest-api/tell/"+id+"/query.json">pg "+id+"</a>");
        }
        // ceph-rest-api/tell/<id>/query.json
        $scope.details[i] = txt;
    }
    })
    .error(function (data, status) {
        $scope.details = ["details not available"];
    }
    );
};
$scope.refresh();

$scope.close = function () {
    $modalInstance.dismiss('cancel');
};
});

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